TOOL: GRE	AR SCORECARD & I EEN STAR BUILDING T REVISION: 2.0	GS V1 DATE: 25/02/2025			PROJECT ADDRESS:       GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIM         20 AVON RD, PYMBLE NSW       GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUI										
<i>Note: details belo</i> CATEGORY / CREDIT	OUTCOME	y, where required the project team shall refe CREDIT CRITERIA	POINTS AVAILABLE POINTS AVAILABLE POINTS AVAILABLE POINTS TO TARGET	en Star Buildi Nominated Area	Requirements	Submission Content	Building owner Head Contractor Project Architect	Structural Consultant Mechanical Consultant Electrical Consultant Hvdraulics/Fire Consultant	Mechanical Contractor BMS / Control Contractor Electrical Contractor	Hydraulics / Fire Contractor a ESD Consultant Landscape Consultant / Contractor A	Ecologist Acoustic Specialist Civil Engineer / Contractor	Guidance			
RESPONSIBLE	Ξ														
Industry Development	The development facilitates industry transformation through partnership, 1.0 collaboration and data sharing.	<b>Credit Achievement:</b> The building owner or developer appoints a Green Star Accredited Professional, discloses the cost of sustainable building practices to the GBCA, and markets the building's sustainability achievements.	1 1	N/A	CREDIT ACHIEVEMENT         The project must comply with all criteria listed below:         • Green Star Accredited Professional;         • Financial transparency; and         • Marketing sustainability achievements         Green Star Accredited Professional         At least one Green Star Accredited Professional (Green Star AP) must be engaged as part of the project team from the time of registration or within one month following. A Green Star AP must be contractually engaged as part of the core project team for the duration of the project. The role of the Green Star AP can be fulfilled by one, or multiple individuals.         Financial transparency         The project team must complete, and include in the submission, the Green Star Financial Transparency Disclosure Template. The template assists the project tear to submit the cost of sustainable building practices of the project including design, construction and documentation to the GBCA.         The project team must provide the project financial data in Excel format with the project's Green Star submission, not as a PDF. The Disclosure Template is available on the GBCA website. Project teams must use the latest available version.         Marketing sustainability achievements         To achieve this criterion:         • The project's marketing fearm must complete the Green Star Case Study Template. The template seeks information on the sustainability initiatives that the building targeted to enable it being featured on the GBCA's website;         • The project's marketing team must complete the Green Star Case Study Template. The template seeks information on the sustainability initiatives that	<ul> <li>Letter from the Client confirming that the Green Star AP satisfactorily fulfilled their engagement responsibilities as per the scope of works and requirements of this credit</li> <li>Financial Transparency</li> <li>Statement or report from quantity surveyor, project manager or Green Star AP from the project, supporting the costs outlined in the Disclosure Template</li> </ul>	x x			x		<ul> <li>Green Star Accredited Professional The Green Star AP must be enrolled in the Green Building Council of Australia's Continuous Profession (CPD) program and must have valid credentials for the duration of their engagement (schematic design throug certification). Multiple Green Star APs  In some cases, the role of the Green Star AP can be fulfilled by different individuals throughout the proje acceptable provided each Green Star AP individually meets the requirements of this credit (apart from t requirement) and this role has been fulfilled continually from schematic design to practical completion. Multiple project roles In some cases, the Green Star AP's employer may also be engaged in other roles on the Green Star AP and Commissioning Agent (ICA) where separation exists between the individual roles.  In this case, project teams should demonstrate that there is no conflict of interest by including relevant of Submission Template.</li></ul>			
Responsible Construction	The builder's construction practices reduce impacts and promote opportunities for improved environmental and social outcomes. 2.0	Minimum Expectation:         • The builder or head contractor has an environmental management system in place to manage its environmental impacts on site;         • The builder diverts at least 80% of construction and demolition waste from landfill;and         • The head contractor provides training on the sustainability targets of the building. <b>Credit Achievement:</b> 90% of construction and demolition waste is diverted from landfill, and waste contractors and facilities comply with the Green Star Construction and Demolition Waste Reporting	Nil Angeler Angele Angeler Angeler Ang	N/A	MINIMUM EXPECTATION         The project must comply with all criteria below:         Environmental management system;         Environmental management plan;         Construction and demolition waste; and         Sustainability training         Environmental management system         The builder or head contractor (responsible party) must have a formalised systematic and methodical approach to planning, implementing and auditing in place during construction.         • For projects valued at less than \$10 million, the responsible party must have an Environmental Management System (EMS) that complies with either the NSW Environmental Management System Guidelines or another recognised standard.         • For projects valued at over \$10 million, the responsible party must have an Environmental Management System (EMS) that complies with either the NSW Environmental Management System Guidelines or another recognised standard such as AS/NZS ISO 14001, BS 7750 or the European Community's EMAS.         The EMS can be stand-alone or part of an integrated management system and must be valid for the duration of construction activities         Environmental Management Plan         The Environmental Management Plan (EMP) must be project specific and cover the scope of construction activities. It must be implemented from the start of construction and demolition waste from landfill.         A Disclosure Statement is required from waste contractors and processing facilities outlining how the company and their reporting aligns with the Green Star Construction on the sustainable building curficiation(s) sought, including:         Informatition	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Minimum Expectation         • An auditor report showing compliance with the EMS. An auditor report for the organisation, rather than the site, can suffice.         If it is for the organisation, the builder or head contractor must confirm effective use of the EMS on the particular site;         • Demolition or Site Drawings indicating the structures on site at time of purchase, extent of demolition and retained structure and façade;         • Cumulative waste report generated from the monthly waste reports provided by the waste contractor over the entire duration of construction and demolition works;         • Disclosure statement outlining how the contractor or facility aligns with the Green Star Construction and Demolition Waste Reporting Criteria, and         • Evidence of training materials and register of attendance.         Credit Achievement         • Compliance Verification Summaries from waste contractor(s) and waste processing facilities as detailed in the Green Star Construction and Demolitii Waste Reporting Criteria document;         • Demolition or Site Drawings indicating the structures on site at time of purchase, extent of demolition and retained structure and façade; and         • Compliance Verification Summaries from waste contractor(s) and waste processing facilities as detailed in the Green Star Construction and Demolitii         Waste Reporting Criteria document;	n x x			xx	x	MINIMUM EXPECTATION         Environmental management plan         The NSW Environmental Management Systems Guidelines contains requirements of EMPs which is corpractice.         Environmental management system         A formalised Environmental Management System (EMS) is a process that can be used to identify, mana reduce environmental impacts, and generate reports on environmental performance progress. It should systematic and methodical approach to preventing impacts, and when they occur to planning, implement reviewing an organisation's response.         The management system may be integrated with other management systems (such as occupational hearisk registers etc.) to give a 'whole of business' approach.         All formalised EMS should follow the basic stages of high-level commitment, identification of impacts, resetting, action planning, monitoring and reporting. The process is to be frequent and ongoing.         Calculate the amount of waste diverted from landfill, the project team is required to report the total am generated and the total amount of waste diverted from landfill, and report on the proportion diverted as a CREDIT ACHIEVEMENT         Volume to weight conversion         Waste contractors are often required to determine the weight of waste material streams from visual inspload's volume for the purpose of reporting the estimated weights of material types removed from site (e.a. plasterboard, concrete, carpet). The conversion factors in the Table Page 44 may be used to convert m waste types from volume to weight.			
Verification and Handover	The building has been optimised and handed over to deliver a high level of performance in operation. 3.0	Criteria.         Minimum Expectation:         The building has been commissioned and will be tuned.         The building was set up for optimum ongoing management tue to its appropriate metering and monitoring systems.         The project team create and deliver operations and maintenance information to the facilities management team at the time of handover. Information is available to building users on how to best use the building.	To Comply	N/A	<b>HNIMUM EXPECTATION</b> The project must comply with all tarties lased below: • Modeling and monitoring • Commensioning and unking • Building must have accessible energy and water metering for all common uses, major uses, and major acures. The tasking must have accessible energy and water metering for all common uses, major uses, and major acures. The tasking must have accessible energy and water metering for all common uses, major uses, and major acures. • Provide communal information <b>Be commissioning and waidaded part the met current Visidage Non-Unlip Meters for NABERS Reting* protocol.</b> or National Measurement Institute (NMI) tartification. • Perform accessible energy and water metering accuracy class (e.g., Class Threfers shall not have indexing from the 1% due to metering accuracy class (e.g., Class Threfers shall not have indexing for all common uses, major uses, and due as those over motor talerances based on their metering accuracy class (e.g., Class Threfers shall not have indexing for all common uses, major uses, and the protocol or National Measurement Institute (NMI) tartification, and tartistical complexity of accession and protocol complexity. • Commission the publicity information of a Norther Straining. • Perform access and maintanability review • Properties access and maintanability review • Commission the building; and • Properties internation and protocol completion: • Commission the building; and • Properties internation and protocol completion: • Commission the propert have and information • Commission and activate acid document environmental proformance targets for the propet acid user acid acid metering accuracy and water, and user acid document of an online table building systems; and • Description of the functor, information constanting complexes of maintanability review with a interval the advetor and the acid testing the system site of the propet near	*s         Submissions for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Minimum Expectation         Metering and Monitoring         • Drawings showing the location of all energy and water meters in the project and the associated energy and water uses;         • Letter of confirmation from the contractor/metering provider/manager demonstrating that the metering systems are continually and automatically monitored by a system that is able to produce alerts if any inaccuracies are found;         • Copy of Monitoring Strategy document specific to the building; and         • Automatic molitoring system data sheet describing the systems features and capabilities.         Commissioning and Tuning         • Service and Maintainability Report where the service and maintainability review is summarised;         • Extract(s) from the Commissioning Report demonstrating that comprehensive pre-commissioning activities and commissioning activities and commissioning activities have been performed;         • Building Tuning Commitment or contract demonstrating that there is a requirement for a building tuning process;					x	MINIMUM EXPECTATION         Arrightness testing         The airlightness testing         Arrightness testing         The airlightness testing         The airlightness testing         The construction, Including different facade types and building solution are presentative envelope construction, Including different facade types and building generaties.         Air lightness commissioning is encouraged to be undertaken at various stages of the project, such as: <ul> <li>Pre-design phase: the process of commissioning for airlightness begins at the project inception, when expectations and goals for performance are defined;</li> <li>At schematic design phase: review must be completed. This may include creation of an air barrier syst definitions of space conditioning requirements, and delineation of the exist of the conditiones building process should fit in the same timeline with other such building envelope commissioning steps, such as separations in the building;</li> <li>Design development phase: review for air lightness must be completed. This includes plan reviews for construction, include and mechanical contractor statements of understanding and committent target and in the poster timeling:</li> <li>Onstruction phase: builder and mechanical contractor stages of commissioning at a grithness and include in the project ruleling:</li> <li>Constru</li></ul>			



Professional Development lesign through to

nout the project. This is (apart from the workshop mpletion.

Green Star project. This does idently to meet the a Star AP and Independent g relevant discussion in the

which is considered best

entify, manage, audit and s. It should provide a , implementing and pational health and safety,

impacts, review, target

t the total amount of waste liverted as a percentage.

visual inspections of a from site (e.g. timber, steel, to convert measurement of

ng. For sample area testing, whichever is greater. The resentative of the external

, such as: ption, when broad

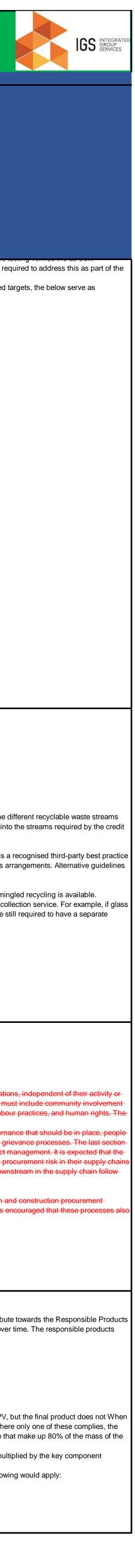
barrier system schematic, ned building envelope. This teps, such as definition of fire

reviews for air barrier e must be considered. sary coordination between ightness must be defined ommitment of resources

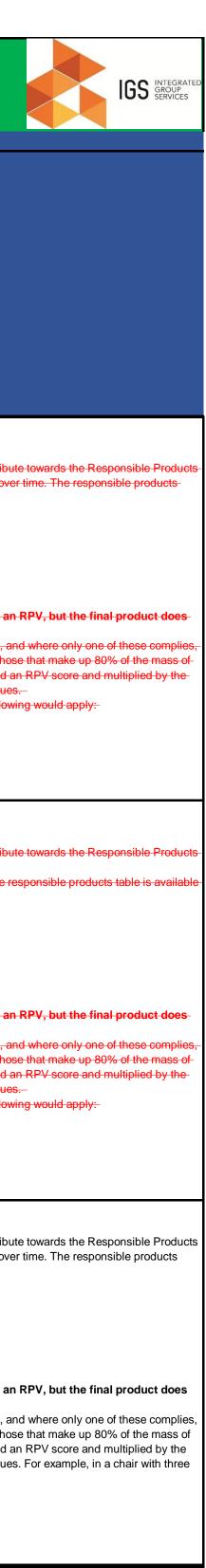
gardless of scale of e awarded for whole-

nptions in the Energy Model erifies the as-built

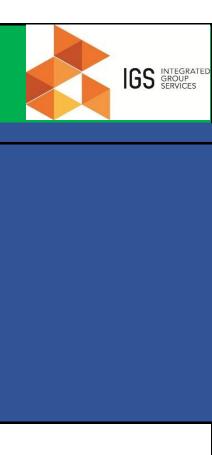
TOOL: GRE	AR SCORECARD & I EN STAR BUILDING REVISION: 2.0	S V1 DATE: 25/02/2025		PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 35 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (5 STAR WITH 7 BUFFER POINTS)							DINTS)
<i>Note: details below</i> CATEGORY / CREDIT	W are provided as a guide onl	V, where required the project team shall refer to the BIND PROVIDE A START OF THE PROJECT CRITERIA	POINTS TO TARGET	ngs V1 for further details.	Submission Content	ilding owner	oject Architect ructural Consultant echanical Consultant	ectrical Consultant draulics/Fire Consultant schanical Contractor	as / control contractor s sctrical Contractor d draulics / Fire Contractor d SD Consultant	ndscape Consultant / Contractor A ologist coustic Specialist	vil Engineer / Contractor ban Planner ıantity Surveyor	Guidance
		Credit Achievement:         An independent level of verification is provided to the commissioning and tuning activities through the involvement of an independent commissioning agent, or through a soft landings approach that involves the future facilities management team. For large projects, both must occur.       1	1	<ul> <li>The facilities manager:</li> <li>The owner's representative and the independent commissioning agent (ICA, if applicable):</li> <li>The head contractor; and</li> <li>The services design professionals</li> <li>Building information</li> <li>Operations and maintenance information information for all nominated building systems to the building owner (or designated representative). The means:</li> <li>Appropriate content for all nominated building systems has been developed and provided:</li> <li>The sprvices access to the information to to date is provided to the facilities management team in these documents.</li> <li>Building top book</li> <li>The project team must develop a building log book to present to the building owner (or designated representative) before practical completion of the project. The building book must:</li> <li>Be developed in line with CIBSE TM31: Building Log Book Toolkt:</li> <li>Cover all nominated building systems: and</li> <li>Inducted links or references to all relevant operations and maintenance information.</li> <li>Building user information is a source of up-to-date, relevant information for the building user.</li> <li>Building user information is a ball to be updated and ediad by the facilities management team, or other appropriate stakeholder groups, to ensure it remains current and relevant to users throughout the life of the building.</li> <li>All building user information the to exomitable to the building.</li> <li>All building user information the commissioning and tuning process</li> <li>For buildings approach, that involves the facilities management team; and</li> <li>There are two pathways svaliable.</li> <li>A soft landings approach is described in The Soft Landings Framework Australia and New Zealand' published by CIBSE ANZ, based on the BSRIA guide.</li> <li>Independent of any consultant, contractor any why the commissioning and tuning process.</li> <li>The involvement of an CA in the commissioning and tuning process.</li> <li>The involvement of any consultant, cono</li></ul>			Pro Pro Str	Ele Hy Me				performance of the façade system. Should there be a discrepancy, the project is required to addre commissioning process; and • Whilst the requirement of this credit is to conduct the test, but not meet specified targets, the belo guidelines: – Should test to at least 50 Pascals – Should aim to achieve leakage target: suggest permeability 3.0 m3·h-1·m-2
Operational Waste	Operational waste can be separated and recovered in a safe and easy manner. 4.0	Minimum Expectation:         The project team must demonstrate the building is designed to allow effective management of operational waste by:         • Separating waste streams;         • Providing a dedicated and adequately sized waste storage area; and         • Ensuring easy and safe access to waste storage areas for both occupants and waste collection contractors.	Maste Storage	MINIMUM EXPECTATION         The project must meet all criteria listed below:         • Separation of waste streams;         • Dedicated waste storage area; and         • Sign-off by waste specialist and/or contractor.         Separation of waste streams         The building must provide bins or storage containers to building occupants to enable them to separate their waste. These bins must be labelled and easy to access and evenly distributed throughout the building. They must also allow for separating the following as a minimum:         • General waste going to landfilt;         • Recycling streams to be collected by the building's waste collection service, including:         - paper and cardboard         - glass, and         - plastic; and         • One other waste stream representing at least 1% of the total annual operational waste (by volume) of the building. This may include collecting any of the following waste types: organics, e-waste, batteries etc.         Any other single waste stream (except food waste) that represents more than 5% of total annual operational waste (by volume) must also be accounted for.         Dedicated waste storage area         A dedicated area, or areas, for the storage and collection of the applicable waste streams must be provided. The storage area must be sized to accommodate all bir or containers, for all applicable waste stream.         • Forecasted waste generated by occupants; and         • Collection frequency for each waste stream.         • Forecasted waste generated by occupant	Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Site Plan and/or architectural plans highlighting the location of relevant waste facility areas, demonstrating: - Separation of waste streams; - Dedicated waste storage area; and - Access to waste storage area • Calculations used to demonstrate that the dedicated waste storage area provided is adequately sized; and • Details on how the dedicated waste collection areas meet best practice guidelines, in line with third-party best practice guidelines.	x 5	< x					Off-Site recycling Where recyclable waste is taken off-site to be sorted and hence equipment for the different recycla will not be provided, the building must demonstrate that the waste will be sorted into the streams re through a contract for the waste to be removed and sorted. Third-party best practice guidelines The City of Sydney's Guidelines for Waste Management in New Developments is a recognised thi guideline that may be used to calculate waste generation rates and justify access arrangements. A may be used provided they achieve similar or better outcomes. Collecting waste streams These streams may be collected in separate bins or in the same bin where commingled recycling Commingled recycling is permissible to the extent that is accepted by the waste collection service. and plastic are collected as commingled recycling, then paper and cardboard are still required to h recycling bin or container.
Responsible- Procurement	The procurement process for all products, materials, and- services for the building's- design and construction- follows best practice- environmental and social- principles	Credit Achievement:         The building's design and construction procurement-process follows ISO 20400 Sustainable Procurement-Guidance and at least one identified supply chain risk and-opportunity is addressed.	0 Site-wide	CREDIT ACHIEVEMENT           The project must meet both criteria below:           • Risk and opportunity assessment           • Responsible Procurement plan           Risk and opportunity assessment           The project team must undertake a risk and opportunities during assessment of its supply chain, such as in the extraction, manufacture or transport of key materials. The risk-assessment must consider risks and opportunity assessment must address at least the following issues:           • Human rights;           • Labour practices;           • The environment;           • Fair operating practices;           • Community involvement and development.           The project must provide a narrative on how it has actively addressed one risk and one opportunity.           Responsible procurement plan           The project must develop and implement a plan to mitigate and manage identified risks and drive implementation of identified opportunities. This can be part of an organisational plan or a stand-alone plan. The plan must           • Identify targets related to environmental, social and economic objectives in the supply chain and a measurement process for tracking these;           • Stabilish monitoring requirements to ensure implementation of the plan including roles and responsibilities for implementation and monitoring of all-procurement process for tracking these;           • Identify targets related to environmental, social and economic objectives in the supply chain and a measurement process for tracking these;           • Stabulate clear action	Submissions for this credit must contain:-         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         • Extract from supply chain risk and opportunity assessment; and         • Responsible procurement plan	× )	e					ISO 20400 Sustainable Procurement – Guidance- ISO 20400: Sustainable Procurement – Guidance provides guidance to organisations, independe size, on integrating sustainability within procurement. The procurement process must include corr and development, consumer issues, fair operating practices, the environment, labour practices, ar standard also addresses- organisational requirements at the middle management level, including the governance that shoul management and training, stakeholder engagement, prioritisation, reporting and grievance process sets out the procurement process itself, including planning, sourcing and contract management. It head contractor and sub-contractors follow the ISO-20400 guidelines to manage procurement risk to meet the requirements of this credit. It is not expected that all organisations downstream in the s the ISO-20400 guidelines <b>Procurement scope</b> The Responsible Procurement credit deals specifically with the building's design and constructior processes. It does not deal with operational procurement decisions; however, it is encouraged that follow ISO-20400 Sustainable Procurement – Guidance
Responsible Structure	The building's structure is comprised of responsibly 6.0 manufactured products.	Credit Achievement: 80% of all structural components (by cost) meet a Responsible Products Value score of at least 10.3Exceptional Performance: In addition to the Credit Achievement, one of the following is met: • 10% of all products in the structure (by cost) meet a Responsible Products Value score of at least 15; OR • 30% of all products in the structure (by cost) have an average Responsible Products Value score of at least 12.2	3 Site-wide	CREDIT ACHIEVEMENT & EXCEPTIONAL PERFORMANCE Scores for each product can be calculated by using the Responsible Products Value table. Scoring is cumulative, rewarding each initiative achieved. A product can be compliant with one or more initiatives and each adds to the product's total score. Examples of recognised initiatives that are present in the Responsible Products Value (RPV) table are: Industry specific environmental product declarations (EPD); Product specific environmental product declarations (EPD); SO14001 certification; Climate Active Carbon Neutral Certification; Chain of custody certification; and Third-party product certification schemes.	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         • Receipts confirming purchase of stated products; and         • Evidence that claimed products constitute 60% of all structural components	,	<ul> <li>x</li> </ul>					Responsible Products Value table         The Responsible Products Value table presents the various schemes that contribute towards the F         Value score, and their relevant weighting. The list of schemes may be updated over time. The resp         table is available on our website.         Example of how to calculate the Responsible Products Value         Calculating the RPV of a product         A concrete mix used in the building meets the following:         • The concrete mix has Climate Active Certification (a)         • The concrete mix has a publicly available product specific EPD (c)         To calculate the total RPV, the value of each initiative is added (a+b+c).         Calculating the RPV is a product that has a number of components have an RPV, but the final pr         calculating the RPV is core of a product that has a number of components, and where only one of the should be broken down into its key major components (approximately those that make up 80° item in question).         An approximate estimate will suffice. Each item is assigned an RPV score and multiplied by the key makeup, and the total RPV is calculated by adding up these values.         For example, in a chair with three key components (timber, foam, fabric), the following would apply         • Timber (60%) with an RPV of 10 = 6         • Foam (20%) with RPV of 0 = 0         • Fabric (20%) with RPV of 12 = 2.4         The chair would have an RPV of 8.4



TOOL: GRE	EN STAR BUIL FREVISION: 2.0		he Green Star Buildi	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 ST GREEN STAR SCORES TO BE TARGETED FOR 5 STA	AR: MINIMUM 42 (5 STAR WITH 7 BUFFER	POINTS)
CATEGORY / CREDIT	OUTCOME	<b>CODE</b> CREDIT CRITERIA	POINTS TO TARGET Nominated Area	Requirements	Submission Content	Building owner Building owner Head Contractor Project Architect Structural Consultant Mechanical Consultant Bectrical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Lectrical Consultant Mechanical Consultant Lectrical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Consultant Consultant Mechanical Contractor BMS / Contractor Consultant Consultant Consultant Consultant Contractor BMS / Contractor BMS / Contractor Contractor Contractor Civil Engineer / Contractor Civil Engineer / Contractor	Guidance
<del>Responsible</del> Envelope	The building's envelope is- comprised of responsibly- manufactured products	7.0       Exceptional Performance : In addition to the Credit Achievement, one of the following- is met: • 10% of all products in building envelope (by cost) meet a- Responsible Products Value score of at least 15. • OR- • 25% of all products in the building envelope (by cost) meet a- Responsible Products Value score of at least 15. • OR- • 25% of all products in the building envelope (by cost) have an average Responsible Products Value score of at least 15. • OR- • 25% of all products in the building envelope (by cost) have an average Responsible Products Value score of at least 12.       2	θ Site-wide	CREDIT ACHIEVEMENT & EXCEPTIONAL PERFORMANCE.         The envelope is defined as the elements that surround a building such as the façade, and all façade components such as external shading and insulation, suspended slabs, as well as roofing systems         Scores for each product can be calculated by using the Responsible Products Value table. Scoring is cumulative, rewarding each initiative achieved. A product can be compliant with one or more initiatives and each adds to the product's total score         Examples of recognised initiatives that are present in the Responsible Products Value (RPV) table are:         Industry specific environmental product declarations (EPD);         • Product specific environmental product declarations (EPD);         • Scortes Active Carbon Neutral Certification;         • Climate Active Carbon Neutral Certification;         • Climate Active carbing and         • Third-party product certification schemes:	Submissions for this credit must contain:- • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Receipts confirming purchase of stated products; and • Evidence that claimed products constitute 60% of all building envelope components		<ul> <li>Responsible Products Value table.</li> <li>The Responsible Products Value table presents the various schemes that contribute towards the Value score, and their relevant weighting. The list of schemes may be updated over time. The restable is available on our website.</li> <li>Example of how to calculate the Responsible Products Value.</li> <li>Calculating the RPV of product.</li> <li>A concrete mix used in the building meets the following: <ul> <li>The concrete mix has Climate Active Certification (a)</li> <li>The concrete mix is manufactured in a plant with ISO14001 certification (b)</li> <li>The concrete mix has a publicly available product specific EPD (c)</li> <li>To calculate the total RPV, the value of each initiative is added (a+b+c)</li> </ul> </li> <li>Calculating the RPV in a product where one or multiple components have an RPV, but the not.</li> <li>When calculating the RPV score of a product that has a number of components, and where only of the item should be broken down into its key major components (approximately those that make up the item in question). An approximate estimate will suffice. Each item is assigned an RPV score a key component makeup, and the total RPV is calculated by adding up these values</li> <li>For example, in a chair with three key components (timber, foam, fabric), the following would apple. Timber (60%) with an RPV of 10 = 6</li> <li>Foam (20%) with RPV of 0 = 0</li> <li>Fabrie (20%) with RPV of 12 = 2.4</li> <li>The chair would have an RPV of 8.4.</li> </ul>
Responsible- Systems-	The building's mechanical, hydraulic, transportation an electrical systems are comprised of responsibly- manufactured products	ad       8.0         Exceptional Performance: In addition to the Credit Achievement, one of the following- is-met: • 5%-of all active building systems (by cost) meet a Responsible Products Value score of at least 11. OR- • 15%-of all active building systems (by cost) meet a Responsible Products Value score of at least 11. OR- • 15%-of all active building systems (by cost) have an- average Responsible Products Value score of at least 8.       4	θ Site-wide	CREDIT ACHIEVEMENT & EXCEPTIONAL PERFORMANCE-         Active building systems are characterised by energy and movement, and include all mechanical, hydraulic, transportation and electrical systems present in the building. Passive systems such as a façade shading device are not included.         Scores for each product can be calculated by using the Responsible Products Value table. Scoring is cumulative, rewarding each-initiative schieved. A product can be compliant with one or more initiatives and each adds to the product stell score.         Examples of recognised initiatives that are presensible Products Value (RPV) table are:         • Industry specific environmental product declarations (EPD);         • Product specific environmental product declarations (EPD);         • ISO14001-certification;         • Climate Active Carbon Neutral Certification;         • Chain of custody certification; and         • Third-party product certification schemes:	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         • Receipts confirming purchase of stated products;         • Evidence that claimed products constitute 20% of all building systems; and         Alternate documentation can also be used by project teams to demonstrate compliance		Responsible Products Value table         The Responsible Products Value table presents the various schemes that contribute towards the P         Value score,         and their relevant weighting. The list of schemes may be updated over time. The responsible prod         on our website.         Example of how to calculate the Responsible Products Value         Calculating the RPV of product         A concrete mix used in the building meets the following:-         • The concrete mix has Climate Active Certification (a)         • The concrete mix has Climate Active Certification (a)         • The concrete mix has a publicly available product specific EPD (c)         To calculate the total RPV, the value of each initiative is added (a+b+c)         Calculating the RPV in a product where one or multiple components have an RPV, but the the not.         When calculating the RPV score of a product that has a number of components, and where only of the item should be broken down into its key major components (approximately those that make up the item in question). An approximate estimate will suffice. Each item is assigned an RPV score arkey component makeup, and the total RPV is calculated by adding up these values         For example, in a chair with three key components (timber, foam, fabric), the following would apply *Timber (60%) with an RPV of 10 = 6         *-Foam (20%) with RPV of 12 = 2.4         The chair would have an RPV of 8.4
Responsible Finishes	The building's internal finishes are comprised of responsibly manufactured products.	9.0       Exceptional Performance: In addition to the Credit Achievement, one of the following- is met:- • 10% of all internal building finishes (by area) meet a- Responsible Products Value score of at least 12. OR- • 20% of all internal building finishes (by area) have an average Responsible Products Value score of at least 12.       1	1 Site-wide	CREDIT ACHIEVEMENT & EXCEPTIONAL PERFORMANCE Internal finishes include flooring, plasterboard, paints, ceilings, partitions, doors, internal windows or similar. Where a component faces two spaces (e.g. a door), it is counted once for each space. Joinery used as part of a wall finish may be counted, e.g. wall- mounted lockers. Loose furniture is not included. Scores for each product can be calculated by using the Responsible Products Value table. Scoring is cumulative, rewarding each initiative achieved. A product can be compliant with one or more initiatives and each adds to the product's total score. Examples of recognised initiatives that are present in the Responsible Products Value (RPV) table are: • Industry specific environmental product declarations (EPD); • Product specific environmental product declarations (EPD); • ISO14001 certification; • Climate Active Carbon Neutral Certification; • Chain of custody certification; and • Third-party product certification schemes.	Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Receipts confirming purchase of stated products; and • Evidence that claimed products constitute 60% of all building finishes Alternate documentation can also be used by project teams to demonstrate compliance.		Responsible Products Value table         The Responsible Products Value table presents the various schemes that contribute towards the I         Value score, and their relevant weighting. The list of schemes may be updated over time. The rest table is available on our website.         Example of how to calculate the Responsible Products Value         Calculating the RPV of product         A concrete mix used in the building meets the following:         • The concrete mix has Climate Active Certification (a)         • The concrete mix has a publicly available product specific EPD (c)         To calculate the total RPV, the value of each initiative is added (a+b+c).         Calculating the RPV in a product where one or multiple components have an RPV, but the not         When calculating the RPV score of a product that has a number of components, and where only of the item should be broken down into its key major components (approximately those that make up the item in question). An approximate estimate will suffice. Each item is assigned an RPV score at key component makeup, and the total RPV is calculated by adding up these values. For example, key components (timber, foam, fabric), the following would apply:         • Timber (60%) with an RPV of 10 = 6         • Foam (20%) with RPV of 0 = 0         • Fabric (20%) with RPV of 12 = 2.4         The chair would have an RPV of 8.4
TOTAL		17	9				
		Minimum Expectation :         Pollutants entering the building are minimised, and a high level of fresh air is provided to ensure levels of indoor pollutants are maintained at acceptable levels.	To Comply	MINIMUM EXPECTATION         The project must comply with all criteria below:         • Ventilation system attributes;         • Provision of outdoor air; and         • Exhaust or elimination of pollutants.         Ventilation system attributes;         • Provision of outdoor air; and         • Exhaust or elimination of pollutants.         Ventilation system attributes         Separation from pollutants         Cleaning ductwork         All new and existing ductwork that serves the building must be cleaned prior to occupation in accordance with a recognised Standard. This includes all ductwork he bases building from the air handling unit(s) to the supply vents. If no ductwork exists, these requirements are deemed to be met.         Provision of outdoor air         There and three pathways projects can pursue to demonstrate compliance, as described below:         Comparison to Industry Standard5         For this option, outdoor air must be provided to each space in the nominated area at are greater than the minimum required by AS 1668.2:2012 by 50%. To demonstrate compliance, the HVAC system must be clearly sized to accommodate the increased outdoor air artes. The project must use the design occupancy when calculating the required rates.         The design occupancy is to be determined by the project tam — any assumptions made must be justified within the Submission. Where the occupant were known, rather than the default occupancy evide.         For this option, the system must be concontration of CO2 within the breating zone of each space during oc	r vork in vork		Relevant Standards Standards for the 'Ventilation System Attributes' criterion include:



TOOL: GR DOCUMEN	AR SCORECARD EEN STAR BUILD IT REVISION: 2.0	NINGS V1	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINI GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIM		IGS S
CATEGORY / CREDIT	OUTCOME	ONLY, WHEre required the project team shall releaded the creen	Period Scholings Fried Scholo. Period Scholings Requirements	Submission Content	uilding owner ead Contractor roject Architect ructural Consultant echanical Consultant echanical Consultant dectrical Consultant echanical Contractor MS / Contractor MS / Contractor SD Consultant Contractor dectrical Contractor ist Engineer / Contractor ban Planner uantity Surveyor ban Planner uantity Surveyor	
Clean Air	Pollutants entering the building are minimised, and a high level of fresh air is provided to ensure levels of indoor pollutants are maintained at acceptable levels.	10.0 Credit Achievement: The building's ventilation systems allow for easy- maintenance, and high levels of outdoor air are provided. 2 0	with documentation from a recognised Standard or peer reviewed research.           Natural ventilation and Residential buildings           For this option, report teams must domonativate how they have deployed a best practice strategy to reduce and eliminate mould.           Exhausts of elimination of pollutants:           It must be demonativated that pollutants:           All Regulary           All Regulary           Comparison to the previous of pollutants:           All Regulary           Comparison to previous of pollutants:           All Regulary           Comparison to previous of pollutants:           Comparison to interminister and the previous of pollutants:           Comparison to interminister and poll	<ul> <li>Submission Summary via the online portal</li> <li>Evidence to support claims made in the submission</li> <li>Suggested evidence: <ul> <li>Nechanical drawings for each ventilated space;</li> <li>Extracts from the environmental Management Plan that specify ventilation cleaning; and</li> <li>Extract from the Commissioning Report demonstrating that the HVAC and CO2 monitoring systems are operating as intended. For naturally ventilated areas, this is only relevant where automation systems and the like are included.</li> </ul> </li> </ul>	0       I	Natural Ventilation of buildings. iling fans are the only available source air in an occupied space are provide thimneys or infiltration processes, the through the minimum permissible op may result in contaminant levels reac the Clean Air criteria is the provision o
		Minimum Expectation : The building provides adequate levels of daylight and good lighting levels suitable for the typical tasks in each space.	MINIMUM EXPECTATION         The project must comply with all criteria below:         • Provide lighting comfort;         • Address glare; and         • Provide adequate daylight.         Lighting comfort         Lighting within the building must meet the following criteria:         • All lighting must be flicker-free;         • Light sources must have a minimum Colour Rendering Index (CRI) average R1 to R8 of 85 or higher, and have a CRI R9of 50 or higher;         • Light sources must have a minimum Colour Rendering Index (CRI) average R1 to R8 of 85 or higher, and have a CRI R9of 50 or higher;         • Light sources must have a minimum Colour Rendering Index (CRI) average R1 to R8 of 85 or higher, and have a CRI R9of 50 or higher;         • Light sources must meet best practice illuminance levels for each task within each space type with a maintained illuminance that meets the levels recommended AS/NZS 1680.1:2006, series applicable to the project type and including maintenance;         • The maintained Illuminance values must achieve a uniformity of no less than that specified in Table 3.2 of AS/NZS1680.1:2006, with a maintenance factor methor as defined in AS/NZS 1680.4: and         • All light sources must have a minimum of 3 MacAdam Ellipses.         Glare         Glare from light sources must be limited within the nominated area. Three options are provided for demonstrating compliance with this requirement; a performance method, and two prescriptive methods. A combination of methods can be used to demonstrate compliance to suit different spaces.         Prescriptive	od		
Light Quality	The building provides good daylight and its lighting is of high quality.	11.0 Credit Achievement : The building provides either best practice Artificial Lighting or best practice access to daylight. 2 2	selection system as detailed in Clause 8.3.4 of AS/NZS 1680.1:2006. Performance method The Unified Glare Rating (UGR) calculated for the lighting on a representative floor must not exceed the maximum values listed in Table 8.2 of AS/NZS 1680.1:2006. Daylight This Minimum Expectation aims to ensure the building is providing daylight access to building occupants through solutions that exceed the typical relevant federal state, or local regulations. The project team is required to show how the building's design: <ul> <li>Maximises the number of occupants that are in or near daylit areas during their daily activities for all building types;</li> <li>Ensures regularly occupied spaces are in reasonable proximity to glazed façades, windows or skylights;</li> <li>Controls or mitigates glare in the daylit spaces;</li> <li>Maximises daylight to spaces that prioritise learning, healing, and living;</li> <li>For schook, how all dastroms have access to a view and daylight</li> <li>For schook, how all dastroms have access to a view and daylight.</li> <li>For reincos, how all dastroms have access to a view and daylight.</li> <li>For reincost with unrestricted access to a view and daylight.</li> <li>For oritopical building 'coupied team is requireed to submit:</li> <li>A narrative describing the building's duple control strategy;</li> <li>A marative describing the learly above.</li> <li>Where the above requirements above.</li> <li>Where the above requirements above.</li> <li>Where the above requirements above.</li> <li>A triardit lighting; and</li> <li>Daylight</li> <li>The area to wo parts to this credit:</li> <li>Antificial lighting; and</li> <li>Daylight</li> <li>The area to wo parts to this credit:</li> <li>Antificial lighting; and</li> <li>Daylight</li></ul>	Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Daylight modelling report or manual calculations; • Lighting Drawings; • Architectural Drawings; • Lighting Specifications/Schedules; • Product Data Sheets; and • Isolux Plot Drawings	x       x       x       x         x       x       x       x         x       x       x       x         x       x       x       x	listed in AS/NZS 1680.1:2006. When the specified, the values to be used mu- le methods of managing glare. St 20% of the primary spaces per floor ight. can be demonstrated using either the ating the primary floor area that is with thin 45 degrees line of sight to a skyli
		Exceptional Performance:         The building provides both best practice Artificial Lighting and best practice access to daylight	<ul> <li>The value and a solution must address the quarty or right in the space, provide inginigrits and contrast, and seck to avoid excessive righting of overly dinited in solutions.</li> <li>The walls within the field of view of occupants in regularly occupied spaces must have an average surface reflectance value of 0.70 and an average surface illuminance of at least 50% of the horizontal illuminance levels required for task. This requirement does not apply to green walls or to coloured/patterned/biophilic feature walls that make up less than 20% of the field of view of the occupants; and</li> <li>Vertical illuminance in workspaces: ensure that 50% of the horizontal task illuminance reaches the average eye height for 90% of primary spaces using vertical illuminance calculation grid.</li> <li>The illuminance values must be calculated in accordance with AS/NZS 1680 series for the relevant task. Where unknown, a conservative estimate can be used. The lighting solution should provide for highlights of colour and contrast across multiple spaces. The contrast between spaces should not exceed the maximum luminance ratios as defined in AS 1680.1 Table 3.2 for visual task, immediate surrounds and general surrounds.</li> <li>Daylight</li> <li>For non-residential buildings, at least 40% of the principle averaged across the building must receive high levels of daylight with no less than 20% on any floor or tenancy (whichever is smaller).</li> <li>For residential buildings, 60% of the combined living and bedroom area of each apartment unit must comply with the daylight requirements. Kitchens are not included in the calculations. The daylight levels must also be present in at least 20% of the area of each bedroom and living area.</li> <li>Residential buildings and hospitality buildings must provide room blackout blinds or curtains to all bedrooms. If blinds or curtains are part of a packaged décor, all blinds offered for the bedroom décor must be blackout blinds.</li> <li>EXCEPTIONAL PEF</li></ul>			



only available sources of ed space are provided by ation processes, the primary

mum permissible openable taminant levels reaching ria is the provision of fresh ered in the Energy Use credit.

sing LED may seek to justify 5 1680.1:2006. Where

alues to be used must relate

nary spaces per floor or trated using either the y floor area that is within 4m of line of sight to a skylight

Views Hand Calculation aylight during 80% of the

TOOL: GREE DOCUMENT	EN STAR BUILI REVISION: 2.0		the Green Star Build	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42			TH 7 B		POINTS)
CATEGORY / CREDIT	OUTCOME	BOD     CREDIT CRITERIA     State	POINTS TO TARGET Nominated Area	Requirements	Submission Content	uilding owner ead Contractor roject Architect	echanical Consultant echanical Consultant lectrical Consultant ydraulics/Fire Consultant	echanical Contractor MS / Control Contractor lectrical Contractor ydraulics / Fire Contractor	andscape Consultant / Contractor S cologist coustic Specialist ivil Engineer / Contractor	Guidance
		Minimum Expectation:         An Acoustic Comfort Strategy is prepared to describe how the building and acoustic design aims to deliver acoustic comfort to the building occupants.	To Comply	MINIMUM EXPECTATION         An Acoustic Comfort Strategy must be prepared describing how the building design will deliver acoustic comfort to the building occupants.         The following Acoustic Comfort criteria are to be addressed:         Quiet enjoyment of space;         • Functional use of space;         • Control of intrusive or high levels of noise;         • Privacy;         • Noise Transfer; and         • Speech intelligibility.         The Acoustic Comfort Strategy is to include:         • A summary of the Standards, legislation, guidelines and other requirements that apply to the project;         • The proposed performance metrics for each of the Acoustic Comfort criteria relevant to the different uses within the building and whether this exceeds minimum legislative or best practice guidelines; and         • Description of how the design solution is intended to achieve the proposed performance metrics.         The strategy must be prepared by a qualified acoustic consultant during the design stage and the design solutions described in the strategy must be incorporated into the Contract Documents.         CREDT ACHIEVEMENT         The project must comply with all criteria below:         • Internal noise levels;         • Acoustic separation;         • Impact noise         • Internal noise levels in the nominated areas must be no less than 5 dB below the lower range value and no greater than the upper range value relevant to the activity type in each space as recommended in AS/NZS 2107.				Me BN BN FI	Ec Ec Ac	
Acoustic Comfort	The building provides acoustic comfort for building occupants.	12.0 Credit Achievement The building is designed and tested to achieve minimum acoustic performance requirements aligned with the Acoustic Comfort Strategy. 2		<ul> <li><sup>1</sup> Up two noise events per right maximum internal noise levels below 70.68 LAmax; Measuring noise instantian one levels below 55 GB LAmax; Measuring noise instantiant one levels below 55 GB LAmax; Measuring noise instantiant one law of a gradielid accusic consultant and in accordance with ASNZ5 2107. Noise measurements must account for all internal and external noise including noise arising from building services equipment, noise from outdoor sources such as taffic, speech compare how in low of the internal noise including noise arising from building is to be tested. For encload rooms, 10% of the enclosed crosm are to be tested. These necess compare noise is acculated.</li> <li>For even plan space compliance must be demonstrated by doing 1 measurements will be active of the page of the internal of the enclosed on the expaces are considered to be the most and one source. The second noise is noise, 30% of the enclosed crosms value with respect to be the measure of where the tests were conducted.</li> <li>For events and the maximum internal noise requirements must be actived with all windowsponings doesnet. The accusic consultant should also provide the results of the windowsponings are open to noises than 10% of the minium and antification of the provident should also provide the results of the windows on the windowsponings are open to noises than 10% of the minium and antification of the source of the window of the project must address noise transmission between enclosed spaces within the nominated area. There are two ways to demonstrate compliance:</li> <li>Privacy: cr</li> <li>Sound insultation.</li> <li>Privacy: Cr</li> <li>Sound insult</li></ul>	<ul> <li>Submissions for this credit must contain:</li> <li>Submission Summary via the online portal</li> <li>Evidence to support claims made in the submission</li> <li>Suggested evidence:</li> <li>Minimum Expectation</li> <li>Acoustic Comfort strategy.</li> <li>f Credit Achievement</li> </ul>		x		x	Mainton LAT LOAR TOW           Qualified acoustic consultants           A Member or Fellow of the Australian Acoustical Society (MAAS, FAAS) or qualified staff member with of Australian Acoustical Consultants (AAAC) member firm.           Alternative options can be considered through a Technical Question.           Performance metrics           The proposed performance metrics may include the following parameters which are typically used to acoustically confortable spaces inside buildings. Each parameter may contribute to more than one of Comfort Issues:           • Control of external noise intrusion;           • Control of internal noise sources;           • Background noise masking;           • Acoustic separation of spaces; and           • Control of reverberation.           Reference Standards           The following Standards and Guidelines are examples of those expected to be referenced in the Acou Strategy report.           The acoustic consultant will identify which apply to this project based on building type, location and cl • National Construction Code (for residential);           • ASINZS 2107;           • Association of Australasian Acoustical Consultants (AAAC) Guidelines (www.aaac.org.au);           • Relevant State Government Guidelines and Legislation; and           • Client's acoustic requirements (if applicable).
Exposure to Toxins	The building's occupants are not directly exposed to toxins in the spaces they spend time in.	Minimum Expectation:         The building's paints adhesives, sealants, carpets, and engineered wood products are low or non-toxic. Occupants are not exposed to banned or highly toxic materials in the building.         13.0		MINIMUM EXPECTATION         The project must comply with all criteria below:         • Paints, adhesives, sealants, and carpets;         • Engineered wood products; and         • Banned or highly toxic materials.         Paints, adhesives, sealants, and carpets         At least 95% of internally applied paints, adhesives, sealants (by volume) and carpets (by area) must meet stipulated 'Total Volatile Organic Compounds (TVOC)         Limits' below.         Compliance can be demonstrated in the following ways:         • The product(s) are certified under a recognised Product Certification Scheme. The certificate must be current at the time ofpurchase;         • The product(s) are certified under a recognised Product Certification Scheme. The certificate must be current at the time ofpurchase;         • The product(s) are tested in a laboratory; or         • The product(s) are certified under a recognised Product Certification Scheme. The certificate must be current at the time ofpurchase;         • The new engineered wood products are used in the building, or at least 95% (by area) of all engineered wood products meet specified formaldehyde emission limits, as per the following page.         Where there are engineered wood products, compliance to emission limits can be demonstrated in two ways:         • The product(s) are certified under a recognised Product Certification Scheme. The certificate must be current at the time of purchase; and/or         • The product(s) are certified under a recognised Product Certification Scheme. The certificate must be current at the time o	Submissions for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Minimum Expectation         • Extracts from contract specifications for adhesives and sealants;         • Specifications that demonstrate emission levels or formaldehyde contents;         • Safety Data Sheets that demonstrate the compliant emission levels or formaldehyde content;         • Product VOC test certificates that demonstrate emission levels or formaldehyde contents;         • Product VOC test certificates that demonstrate emission levels or formaldehyde contents;         • Product certificates that demonstrate certification under a recognised product certification scheme or recognised standard;         • Invoices and proof of purchase to demonstrate costs of compliant materials;         • Bil of Quantities from Quantity Surveyor or Cost planner, demonstrating material costs; and			x x x x		MINIMUM EXPECTATION         Paint and adhesives testing methods         The following VOC test methods are relevant to paints:         • ISO Method 17895 (2005), for a material with a presumed VOC content <1%;

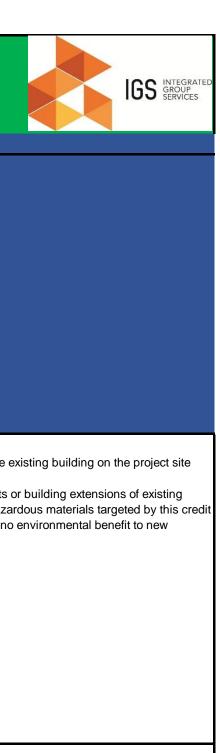


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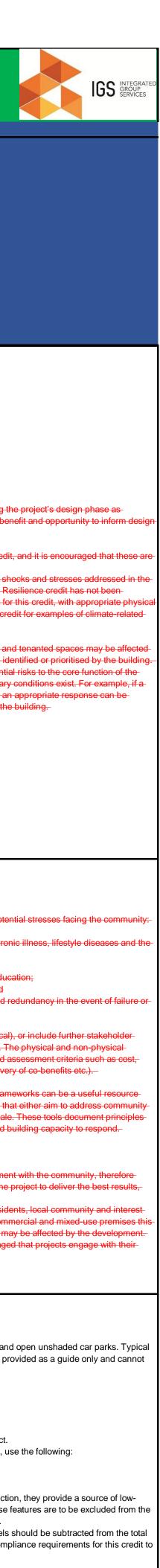
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						PROJECT ADDRESS:	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 35 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (5 STAR WITH 7 BUFFER POINTS)						
DOCUMENT	EN STAR BUIL REVISION: 2.(	)	DATE: 25/02/2025			20 AVON RD, PYMBLE NSW	GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (	(5 STA	AR WI	ITH 7	BUFF	ER F	POINTS)
CATEGORY / CREDIT	OUTCOME		where required the project team shall refe	POINTS AVAILABLE	Nominated Area	Requirements	Submission Content	ilding owner ad Contractor oject Architect uctural Consultant	echanical Consultant ectrical Consultant draulics/Fire Consultant	schanical Contractor do 1S / Control Contractor do sctrical Contractor do	draulics / Fire Contractor a D Consultant ndscape Consultant / Contractor A ologist	oustic Specialist /il Engineer / Contractor ban_Planner	Guidance
			<b>Credit Achievement:</b> On-site tests verify the building has low Volatile Organic Compounds (VOC) and formaldehyde levels.	2 2		accordance with best practice guidelines; or the survey concluded that no hazardous materials were found in any existing buildings or structures on the project site <b>CREDIT ACHIEVEMENT</b> A test must be undertaken to verify that the TVOC and formaldehyde levels are within the concentration limits <b>Page 94 both tables</b> The required samples are determined by whichever is larger between occupied areas or floors. At least three samples are to be taken per floor. These must be representative of where the occupants are likely to spend a majority of their time. Testing must be conducted: Under designed project conditions. For example, for naturally ventilated spaces, the windows should be open during testing; At a minimum, the lowest (that is, the ground floor entrance) and highest floors must have measurements taken, as well as floor with the highest estimated occupants; In areas representative of the regularly occupied spaces on the floor; and Before 12pm. Samples must be taken through an active collection method in accordance with the following standards: ISO 16000-6; ASTM D5197; or EPA TO-17. Testing must take place after practical completion and prior to occupants moving into the building.	<ul> <li>Hazardous materials survey.</li> <li>Credit Achievement         <ul> <li>On-site VOC test results; and</li> <li>As built drawings showing the location of the test samples.</li> </ul> </li> </ul>	Bu He Pro	Me Ele Hy	Me BN Ele	Hy ES La EC	Ac	Lead, asbestos and PCBs In the case of a refurbishment, this credit element is deemed to be satisfied if the existing building on the project site began construction after 1 January 2005. This includes projects that are refurbishments or building extensions of existing buildings for which construction started after 1 January 2005. The use of the hazardous materials targeted by this credit element have been banned in Australia for several years, so this topic presents no environmental benefit to new buildings. Relevant Standards and Legislation Page 96 Table
Amenity and Comfort	The building provides internal amenities that improve occupant experience of using the building.	14.0	<b>Credit Achievement:</b> The building has dedicated amenity rooms to act as parent room, a relaxation room, or an exercise room.	2 2	Site wide	CREDIT ACHIEVEMENT         The building includes one or several rooms designed to promote either inclusivity, mindfulness or exercise for staff or occupants.         For a room(s) to qualify, it must be classified as per below:         • Parent room.         • Relaxation, meditation, or prayer room.         • Exercise room.         • The room must be no smaller than 10m2.         Building occupancy is determined by the project team and must be consistent with other credits in the submission.         The room must be no smaller than 10m2.         Building occupancy is determined by the project team and must be consistent with other credits in the submission.         The room firststructure necessary to use the room(s) for its intended purposes must be parate from bathrooms, showers, lockers, and active facilities. All ameniti and/or infrastructure necessary to use the room(s) or its intended purposes must be provided (for example, including a sink or bench for a parent room).         In addition, the room(s) must meet the following:         • Credit Achievement for the Acoustic Comfort credit; and         • The 'Equal access to the building 'criterion of the Design for Inclusion credit.         These amenity rooms are for staff or regular building occupants. Examples of building occupants are:         • Facilities management staff         • Building lenants         • Residents in an apartment building         • Staff in hospitally buildings, tourism centres, or conference facilities         Amenin	<ul> <li>Submission Summary via the online portal</li> <li>Evidence to support claims made in the submission</li> <li>Suggested evidence: <ul> <li>A narrative describing the various rooms.</li> <li>As build drawings showing the location and size of the rooms.</li> <li>Evidence that all necessary equipment for the room type has been provided.</li> <li>Evidence that the rooms comply with the Light Quality and Acoustic Comfort credits.</li> <li>Evidence that the room complies with the 'Equal access to the building' criterion of the Design for Inclusion credit.</li> </ul> </li> </ul>	x x					Types of spaces         If a project would like to claim a different type of room that provides a unique amenity to occupants, a Technical Question must be submitted to the GBCA.         Multi-functional rooms         Rooms can be dedicated to one purpose or can be a multi-functional room that caters to several of these at once. If rooms are multi-functional, then all necessary equipment for the types of uses must be provided.         Rooms should be designed and built based on the needs of the demographics of the building users. The rooms should also be sized and spaced to suit the needs of the building users.         It is recommended that where multiple rooms are designed, a diverse range of room types be provided.         Design Guidelines         Below are relevant guidelines that provide useful insights and design principles for parent and first aid rooms.         Parenting room         https://aushfg-prod-com-au.s3.amazonaws.com/download/RDS_PAR_4.pdf         https://aushfg.prod-com-au.s3.amazonaws.com/download/RLS_PAR_3.pdf         Quiet or religious rooms         "https://www.diversitybestpractices.com/sites/diversitybestpractices.com/files/import/embedded/anchors/files/_attachme nts_         articles/rr_quietroomsbestpractices.final_feb2015_0.pdf
Connection to	The building fosters		<b>Credit Achievement:</b> The building provides views, includes indoor plants, and incorporates nature-inspired design.	1 1	All Regularly	CREDIT ACHIEVEMENT         The project must comply with all criteria below:         • Views         • Plants         • Nature-inspired design         Views         At least 60% of primary spaces occupied for more than two hours must have a clear line of sight to a high quality internal or external view. All floor areas within 8m from a compliant view meet this credit criterion.         Plants         Indoor plants must be provided in the nominated spaces. One or more plants in pots with a soil surface area totalling at least 500cm² for every 15m² of the primary spaces is required.         An ongoing maintenance plan must be established to ensure plant health is maintained. The contract must include:         • A 2-year contract with a plant maintenance contractor to enact the plan;         • A schedule of plants within the nominated space;	<ul> <li>Submissions for this credit must contain:</li> <li>Submission Summary via the online portal</li> <li>Evidence to support claims made in the submission</li> <li>Suggested evidence:</li> </ul>						Relationship with Biodiversity Enhancement credit         Biodiversity Enhancement focuses on external landscaping that promotes biodiversity (i.e. diverse, resilient etc). This credit instead deals with internal planting, with green roofs an exception. The credits are not mutually exclusive and can be used in conjunction with one another. For example, should an accessible green roof comply with the requirements of the Biodiversity Enhancement credit, it can be used towards compliance in both credits.         External landscaping that is captured as part of the Biodiversity Enhancement credit may only claimed in this credit under the 'Views' criterion (that is, as a high-quality external view).         Views         The line-of-sight shall be measured by extending a perpendicular line from the view, be it a window, opening or internal view. A line at 45° can be used at the corners of the view. The thickness of the external walls must be considered in the calculations.         Internal or external columns can be ignored.         A high-quality internal view is defined as a view towards an area that is landscaped or contains a water feature, or an atrium. A landscaped area must contain either high plant density, xeriscape gardens or arid climate landscaping. The
Nature	connection to nature for building occupants.	15.0	Exceptional Performance: 5% of the building's floor area/ or site area (whichever is- greater) is allocated to nature in which occupants can- directly engage with.	4 θ	Occupied Space	<ul> <li>Service intervals;</li> <li>Policy regarding the maintenance of soil moisture, pH and nutrients;</li> <li>Diseased plant replacement policy; and</li> <li>Cleaning requirements and commitments.</li> <li>Nature-inspired design</li> <li>Five additional nature-inspired design interventions must be provided in alignment with the following principles:</li> <li>Elements that provide differing natural sensory experiences;</li> <li>Elements that reflect natural and cultural patterns and forms;</li> <li>Using natural materials; and</li> <li>Natural motifs and art.</li> <li>EXCEPTIONAL PERFORMANCE-</li> <li>Occupants can interact with nature either inside the building, or externally through a green wall or roof garden</li> <li>At least 5% of the building's floor area/ or site area (whichever is greater) must be allocated to this opportunity</li> <li>The allocated area must be accessible and have the necessary infrastructure to allow the activity to occur (for example water source/ taps for irrigation, storage are for tools and equipment)</li> </ul>		x x			x		<ul> <li>landscaping may be horizontal or vertical.</li> <li>Plants</li> <li>If a space is completely enclosed on all sides and smaller than 25m2, such as a meeting room, this space can be excluded. The use of plants in enclosed areas cannot contribute towards achieving the required number of plants in areas neighbouring this space.</li> <li>Plants within an open plan space should be distributed throughout as far as possible. An ongoing maintenance plan must be established to ensure plant health is maintained. While this credit deals with indoor plants specifically, green roofs or internal green walls are deemed to comply with the credit. A green roof may only contribute 50% towards compliance with the credit and must be accessible to building occupants. This ensures that planting is still provided internally, where occupants spend most of their time.</li> <li>Nature-inspired design</li> <li>Using design elements to connect people to nature builds on the other aspects of this credit. Project teams can demonstrate this through design drawings, specifications and a narrative supporting the principles listed in the credit. The 'Biophilic Design Guidebook' by the Living Building Institute, as referenced below, contains design principles that can be used as a guide when developing these design strategies and responses.</li> </ul>
TOTAL				14 9									
RESILIENT													
Climate Change Resilience	The building has been built to respond to the direct and indirect impacts of climate change.	16.0	Minimum Expectation:         The project team completes the climate change prescreening checklist. The project team communicates the building's exposure to climate change risks to the applicant.         Sector Sec		Site-wide	MINIMUM EXPECTATION         Project team members must consider potential impacts from climate change when completing the checklist including, but not limited to:         Direct damage or failure of project components:         Accelerated deterization of project components or reduced design life;         Reduced operating capacity;         Olimate hazard impacts to surrounding areas (e.g. impacting access and egress);         Impacts to the health and wellbeing of building occupants and other relevant stakeholders; and         Indirect risks from impacts to other interdependent systems and services (e.g. transport networks, power, water, telecommunications).         Both historic and future data must be used when completing the checklist. All crows and columns must be completed. The Minimum Expectation is achieved on completion of the checklist and obsent require identified risks to be treated.         The checklist must be signed off by a member of the project leadership team and shared with key project stakeholders, including the client/building owner. If the Credit Achievement for this credit is met, requirements of this assessment are considered to have been met         Page 108 Climate Change Checklist Table         CREDT ACHEVENENT         Ontende assessment using the information from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report I. Representative: Concentration Pathway 8-5 (RCP 8-5).         -Perform the assessment using the information from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report I. Representative: Converting and escondary climate change variable relevant to the project and e	Submissions for this credit must contain: Submission Summary via the online portal • Sudence to support claims made in the submission Suggested evidence: • Climate change risk assessment. • Risk assessment criteria, including the likelihood and consequence tables, risk matrix, RCP and timescale, and any assumptions significant in the development of the assessment. • Details of the adaptation responses. • Evidence the assessment was communicated to design leads. • Project risk register, highlighting the 'high' or 'extreme' identified climate change risks:						Staging         The Climate Change Resilience risk assessment should be undertaken as early during the project's design phase as possible, such as in the concept or schematic design phase, to allow maximum benefit and opportunity to inform design decisions and implement appropriate and meaningful adaptation responses.         Risk Assessment       Priority should be given to corporate enterprise risk management or project-specific risk assessment criteria to enable climate change risks to be incorporated into the project's broader risk management processes.         Relevant external stakeholders       Examples of relevant external stakeholders include known tenants, government officials, emergency services, and utilities, or as determined by the Suitably Qualified Professional.         Internal consistent?       Care should be taken when adapting multiple variables in the climate change risk assessment to ensure the scenarios are internally consistent. Some combinations of variables may not be simulated by climate models (e.g. a higher temperature scenario may always be associated with being wetter for a location, so designing to a worst case (highest) temperature with worst case (lowest) rainfall would be inconsistent as it represents an improbable future). The climatechangeinaustralia.gov.au website has publicly accessible tools to check for consistency and regional prediction data.         Base Building vs Tenant Scope       By undertaking the climate change risk and adaptation assessment during project design, opportunities to incorporate adaptation responses in the base building can be maximised, thereby improving the resilience of the building for tenant use. Additional non-physical adaptation responses, including emergency management plans and information on how to cope during extreme climate events, should be



## project's design phase as opportunity to inform design

	OOL: GREE	R SCORECARD & I EN STAR BUILDING REVISION: 2.0	GS V1 DATE: 25/02/2025		PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM		AR V	VITH 7	7 BUI	FER F	POINTS)
C	ote: details below ATEGORY / REDIT	are provided as a guide onl	y, where required the project team shall refer to the BIRT CRITERIA	POINTS TO TARGET	ings V1 for further details.	Submission Content	suilding owner lead Contractor troject Architect	structural Consultant lechanical Consultant :lectrical Consultant	iydraulics/Fire Consultant % flechanical Contractor 60 8MS / Control Contractor 60 Electrical Contractor 61	lydraulics / Fire Contractor al SD Consultant andscape Consultant / Contractor A	:cologist \coustic Specialist civil Engineer / Contractor Irban Planner	Guidance
Ę	perations- esilience-	The building can respond to acute shocks and chronic- stresses that can affect its- operations over time.	Credit Achievement :         • The project team undertakes a comprehensive review of the acute shocks and chronic stresses likely to influence future building operations.         • The building operations.         • The building operations.         • The building's design and future operational plan addresses any high or extreme system level interdependency risks.         • The building's design maintains a level of survivability and design purpose in a blackout.	0 Site-wide	CREDIT ACHIEVEMENT           Comprehensive Risk Assessment:           The suitably qualited professional autoring the operations resilience assessment must:           - Identity and confirm the relevant acute shocks and chromance goals for the building:           - Oldaborate with Key internal and external project stakholders, including community representatives, to identify and confirm the relevant acute shocks and chromance goals;           - Identity are compared to internal project stakholders, including community representatives, to identify and confirm the relevant acute shocks and chromance goals;           - Identity are compared to internal project stakholders, including community representatives, to identify and confirm the relevant acute shocks and chromance goals;           - Identity frequences         - Notice representatives, to identify and confirm the relevant acute shocks and through- reduced capacity and/or functionality;           - Outline response procedures in the event of an identified shock event impacting the building and the local community; and           - Consult with relevant authorities with regards to evacuation procedures and emergency actions.           - Pailure of critical infrastructure (power, water and digital);           - Water security:           - Geological hazards (andidides, earthquakes, tsunamis); and           - Direct attack (typer and physical)           The project team must ensure staddesed as follows:           - All risks rated as "High" must be addressed through specific design responses.           - Name risks	Submissions for this credit must contain • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Operations resilience assessment. • Details of how shocks and stresses have been assessed. • Risk assessment oritoria, including the likelihood and consequence tables, and any assumptions significant in the development of the assessment. • Details of the adaptation responses. • Assessment of the building's survivability during a blackout with design responses.		x x x		X		Staging The Operations Resilience risk assessment should be completed as early during the project's desi possible, such as in the concept or schematic design phase, to allow maximum benefit and opport decisions and implement appropriate and meaningful responses. Climate Change Resilience There is a strong link between this credit and the Climate Change Resilience credit, and it is encoudene in parallel, ideally within the same risk assessment. If the Climate Change Resilience credit has been completed, the climate related shocks and stress credit do not need to be repeated for this credit. However, if the Climate Change Resilience credit for some risk assessment. If the Climate Change Resilience credit, the relationship between the base building and tenanted spar where a tenant is particularly impacted by a shock or stress that is not otherwise identified or priorit The project should consider where such a scenario may occur and identify potential risks to the co- building - building's ability to cater to the needs of the tenant where extraordinary conditions eves tenant requires - uninterrupted power supply, the building will need to consider if an appropriate res formulated to meet this requirement, and how this will affect the core function of the building.
•	ommunity	The building contributes to- improving the resilience of- the community	Credit Achievement:         The project team undertakes a needs analysis of the community, identifies shocks and stresses that impact the building's ability to service the community, and develops responses to manage these.	0 Site-wide	CREDIT-ACHIEVEMENT-         The project team must develop a community resilience plan that:         > Defines its surrounding local community; and the groups which rely on or interact directly or indirectly with the building. In addition to considering tenants and- visitors, this must identify key vulnerable communities;         > Identifies resilience objectives and goals associated with servicing the community;         > Identifies resilience objectives and goals associated with servicing the community;         > Identifies resolute shocks and altroses; that impact the project's function and ability to service the community (including elimate related shocks and stresses)         > Homostrates how the development of actions (physical and non-physical responses) to manage the impact from shocks and stresses is in response to the- outcomes of community-engagement;         > Shows how the two most significant impacts identified are dealt with specifically through the building's design; and         > Identifies how material shocks and stresses identified for the building activity prior to or during construction.         Associated and the community cospacity building activity prior to or during construction.         Associated professional must author the community resilience plan.	<ul> <li>Evidence to support claims made in the submission</li> <li>Suggested evidence:         <ul> <li>Community resilience plan.</li> <li>Overview of the community capacity building activity.</li> </ul> </li> </ul>	×					GUIDANCE         Social considerations         The below are examples of social considerations that projects may identify as potential stresses fact         Support and improve community wellbeing and social cohesion;         Improve community health and wellbeing to counter increasing instances of chronic illness, lifesty demand on health services and infrastructure;         Provide opportunities for local employment, skills development, training and education;         Support the provision of, and access to, public and active transport modes; and         Reduce dependency on energy, power, digital and transport networks and build redundancy in the disruption         Physical and non-physical responses         The implementation of responses may form part of design of the building (physical), or include furth engagement during construction, or defer to the operation phase (non-physical). The physical and responses must be prioritised based on self-assessment (e.g. based on standard assessment crite ease of implementation effectiveness towards achieving intended outcome, delivery of co-benefits Community resilience frameworks.         This credit is focused on community resilience and thus community resilience frameworks can be a when working through the credit. Various tools, frameworks and guidelines exist that either aim to a impacts beyond a project footprint or are established at the community or sity scale. These tools de and processes for addressing community level risks associated with disaster and building capacity Examples includes the UN Office of Disaster Risk Reduction, and 10 Essentials for City Resilience         Community engagement.       The level of effectiveness of thi
	eat Resilience	The building reduces its impact on heat island effect. 19.0	Credit Achievement :         At least 75% of the whole site area comprises of one or a combination of strategies that reduce the heat island effect.	1 Site-wide	CREDIT ACHIEVEMENT         The strategies that can be used to reduce the heat Island are:         • Vogetation:         • Corean rodit;         • Roofing materials, including shading structures, having the following:         - For roof pitched 115 <sup></sup> a three-year SRI of minimum 94, or         - For roof pitched 15 <sup></sup> a three-year SRI of minimum 94, or         - For roof pitched 15 <sup></sup> a three-year SRI of minimum 94, or         - For roof pitched 15 <sup></sup> a three-year SRI of minimum 94, or         - For roof pitched 15 <sup></sup> a three-year SRI of minimum 94, or         - For roof pitched stopping elements with a three-year SRI of minimum 94, or         - Vosade Andexaceping elements still a three-year SRI of minimum 94, or         • Value bodies and/or water course.         • The aces of the site that is shaded by overhanging vegetation; and         • Value bodies and/or water course.         The area of the site that is shaded by permanent structures (e.g. part of a car park to the south of a tall building) during the summer solstice are also deemed compliant.	Submission for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         • Sup Plan tarking for the size, and         • Supplier Documentation material data sheet for compliant roofing and hardscape materials.		x			x	<ul> <li>Selection of hardscape materials</li> <li>Hardscape paving materials are defined as all materials in roads, plazas, paths and open unshaded initial SRI values are provided below for reference. These typical SRI values are provided as a guid be used to demonstrate compliance with this credit.</li> <li>Grey concrete: 35</li> <li>Standard white paint: 100</li> <li>Standard white paint: 5</li> <li>New asphat: 0</li> <li>Project-specific SRI values must be identified for the materials used in the project.</li> <li>Where one of pitched &lt;15" – an initial SRI of minimum 32.</li> <li>Solar hot water and Photovoltaic panels</li> <li>Although these roof structures have low SRI values, given the nature of their function, they provide emission energy production which results in flow-on sustainability benefits. These features are to be calculation of site area percentages for both compliant and non-compliant areas.</li> <li>The surface area in plan view covered using solar hot water or photovoltaic panels should be subtra is the area of the project. At least 75% of the remaining site area must meet the compliance requirem be claimed.</li> <li>Shaded at summer solstice</li> <li>This is an accepted pathway because the sun tracks North in the Southern hemisphere, causing bu shadows will be the shortest on this day.</li> <li>Overhanging vegetation</li> <li>Goverhanging vegetation to qualify, it must provide shading all year round. Vegetation that provide shading and count towards compliance.</li> <li>Green roof</li> <li>Only areas of the roof that are covered by plants or vegetation (either through landscaping or plante contribute towards the compliant areas. In the case of planter boxes, evidence of their installation or provided at the time of submission.</li> <li>Skylights</li> <li>Project teams may exclude the skylights from the calculation of site area percenta, areas in the case of planter boxes, evidence of their installation or provided</li></ul>



using buildings to cast e included in the calculation

provides seasonal

planter boxes) may ation or purchase must be

a plan view. Glazing over tion of site area percentages

ercentages. The surface area of the project for both

dit to be claimed. stainability benefits that

TOOL: GRE	AR SCORECARD EEN STAR BUILDI T REVISION: 2.0	NGS V1 DATE: 25/02/2025			PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - N GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MIN		
Note: details below	OUTCOME	ONLY, where required the project team shall references of team shall refere	to the Gree Gree Gree Gree Gree Gree Gree Gr	een Star Build Nominated Area	lings V1 for further details. Requirements	Submission Content	Building owner Building owner Head Contractor Project Architect Structural Consultant Mechanical Consultant Hydraulics/Fire Consultant Mechanical Consultant Hydraulics/Fire Consultant Mechanical Contractor BMS / Control Contractor BMS / Contractor Electrical Contractor BMS / CO	
GridResilience	The building contributes to the functioning of the grid as- it transitions to a higher level of renewable energy- capacity.	Credit Achievement :         The building meets one or several of the following:         •Provides active generation and storage cystems;         •Has the infrastructure to deliver an appropriate demand-response strategy; or         •Has reduced its electricity consumption through passive-design;	3 θ	Site-wide	CREDIT ACHIEVEMENT           He project mode on ear		x       x         x       x         x       x	Itities to provide energy to the grid, or to adjust the building's demand in rest to this credit building is impacting on the grid during peak times or similar shocks; o contribute to increasing the amount of renewable energy into the grid; gro provide short or on-demand flexibility to manage its energy consumpt ad generation (wind, solar) and demand for energy, and gro increase the grid's resilience during its peak. address two or more of these components, project teams are encouraged ⇒path to review demand response, load shifting and onsite energy storage solutio tions may be electricity storage (for example, batteries) or thermal storage duction" has been referenced in this credit. Other terms, such as "peak log ably with "electricity demand reduction" and essentially deliver the same or to optimise energy generation onsite with the demand profile, either throug or using onsite energy storage solutions such as batteries. The purpose is e energy generation. The intent is to encourage the availability of renewab en calculated to allow for weekend energy export assuming there is no energing to optimise the building's impact on the wider grid cognise precinct scale energy masterplans where some buildings have sig attion potential than it can use, such as industrial buildings. This allows bu at is designed to support the volume of energy trading, without impacting it interactions erators can be used to achieve the goals of this credit is aiming to provi its outcome. As diesel generators are typically found in buildings, this out active erators can be used to achieve the goals of this credit, we recommend sch and he burnt fuel. We also recommend that you review the content of this credit in support grid decarbonisation. However, this will not be rewarded he base building should consider the relationship with the tenanted space is poing to be scored on managing base building services ess loads were included in the peak energy calc
TOTAL			8 1					
POSITIVE								
Upfront Carbon Emissions	The building's upfront carbon emissions from materials and products have been reduced and offset.	21.0       Minimum Expectation: The building's upfront carbon emissions are at least 10% less than those of a reference building.         21.0       Credit Achievement: - Net Zero Path – The building's upfront carbon emissions are at least 20% less than those of a reference building.         21.0       Exceptional Performance: The building's upfront carbon emissions are at least 20% less than those of a reference building.	Nil       μ         3       3         3       θ	Site-wide	Upfront carbon emissions are those from modules A1 to A5 as defined in EN 15978. MINIMUM EXPECTATION Reducing upfront carbon emissions diductions must occur through good design and material selection. Carbon offests purchased against the building's upfront carbon emissions from construction cannot be used to show compliance against the 20% reduction in the Credit Achievement or the Exceptional Performance. The reducing upfront carbon emissions reductions To demonstrate compliance, project teams can either: • Model the proposed and reference building's following the methodology of the Life Cycle Impacts credit; or • Complete the Upfront Carbon Emissions reductions To demonstrate compliance, project teams can either: • Model the proposed and reference buildings following the methodology of the Life Cycle Impacts credit; or • Complete the Upfront Carbon Emissions Catalutor. Retroit teams seeking to achieve the Exceptional Performance must use the Life Cycle Impacts credit; or • Complete the Upfront Carbon Emissions Catalutor. Retroit Carbon emissions reductions • Demolition works are excluded from the Minimum Expectation. Cathon offsets purchased against the building's upfront carbon emissions reductions • Demolition works are excluded from the Minimum Expectation. Cathon offsets purchased against the building's upfront carbon emissions from construction cannot be used to show compliance against the 20% reduction in the Credit Achievement on the Exceptional Performance. The reduction targets for the Minimum Expectation, Credit Achievement, or Exceptional Performance do not include demolition works. However, to caim the Credit Achievement and the Exceptional Performance do not include demolition works. However, to caim the Credit Achievement and the Exceptional Performance do not include demolition works. However, to caim the Credit Achievement and the Exceptional Performance do not include demolition works. However, to caim the Credit Achievement and the Exceptional Performance do not include demolition works. How	Submissions for this credit must contain: • Submission Surmary via the online portal • Evidence to support claims made in the submission • Life Cycle Assessment report (II pathway used) • Upfort Carbon Emissions Calculator (If pathway used) Suggested evidence: • Bill of quantities showing materials used. • Documentation as per Life Cycle Impacts credit (if pathway used).	<ul> <li>x x x x x x x x x x x x x x x x x x x</li></ul>	<ul> <li>a project team has completed a LCA in accordance with the Life Cycle Impan be used to demonstrate compliance with this credit.</li> <li>hall report on the global warming potential impact of modules A1 - A5. This ont Carbon Emissions Calculator. The calculator will show the percentage GBCA Upfront Carbon Emissions Calculator can be used to calculate the missions.</li> <li>al products and design</li> <li>a must be accompanied by 3rd party verified data, such as in Environmentated to contribute towards compliance with the credit:</li> <li>mate Active Carbon Neutral Standard can contribute toward compliance. If rd, a Technical Question must be submitted to the GBCA justifying its equied once they become available and added as a FAQ on the GBCA's websi titions (EPDs) EPDs used for the Responsible Products credits may be used to that is not claimed in the Responsible Products credits, the complying Efficience of the submission.</li> <li>ons beyond the Credit Achievement reduction target, and carbon emission to through verified offset schemes. Acceptable offset schemes are listed in the submission.</li> <li>ons beyond the Iterative following materials:</li> <li>ment;</li> <li>d glazing, including framing;</li> <li>g;</li> <li>work) and stone including grout;</li> <li>plastic and metal;</li> <li>including plasterboard, fibre-cement, timber cladding;</li> </ul>



rgy Consumption and lelling calculation, including-

ation of the grid. The credit

demand in response to the

<del>: shocks;</del> <del>hto the grid;</del> e<del>rgy consumption;</del>

e encouraged to contact

storage solutions to meet ermal storage (for example,

ich as "peak lopping" or "peak ver the same outcome.

e, either through demand The purpose is not to ity of renewable energy at

there is no energy used

to a micro-grid can use the . ildings have significantly-. This allows buildings to nout impacting the wider-

ractions. aiming to provide a best-dings, this outcome is not-

recommend-scheduling the-ith peak demand reduction-tent of this-credit andarded.

nanted spaces and how-

e project team should detail-his credit may differ from that-

nts, there is the opportunity-ting significant battery ore precinct level. We expec



ctor-specific credit Tenant

e Life Cycle Impacts credit,

es A1 - A5. This result shall he percentage reduction. calculate the reduction in

Environmental Product

d compliance. If a project istifying its equivalency. gBCA's website. ts may be used to

complying EPD and proof arbon emissions from

s are listed in the

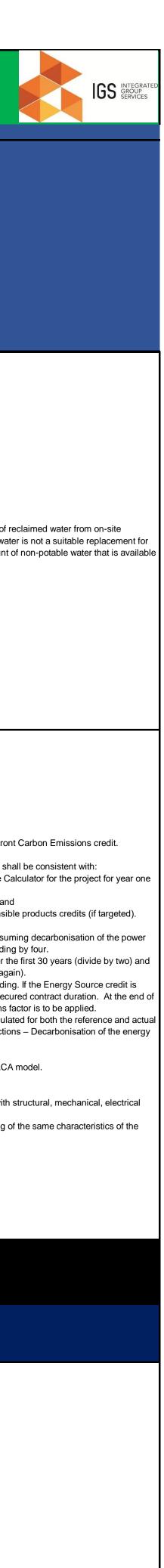
ons of a building. It calculates

financial value of building ust be captured.

TOOL: GRE	AR SCORECARD EN STAR BUILD T REVISION: 2.0	DINGS V1 DATE: 25/02/2025	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 35 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (5 STAR WITH 7 BUFFER POINTS)					
Note: details belo CATEGORY / CREDIT	ow are provided as a guid	de only, where required the project team shall refer to the BOO CREDIT CRITERIA	e Green Star Buildings V1 for further details.	Submission Content	uiliding owner       tead Contractor         lead Contractor       tructural Consultant         roject Architect       tructural Consultant         tructural Consultant       techanical Consultant         Volaculacity       techanical Consultant         ilectrical Consultant       techanical Consultant         Volaculics/Fire Consultant       Mis / Contractor         Nydraulics/Fire Consultant       techanical Contractor         ilectrical Consultant       techanical Contractor         Nydraulics/Fire Consultant       techanical Contractor         ilectrical Consultant       techanical Contractor         indicage       techanical Contractor         trantity Surveyor       techanical Contractor         than Planner       techanical Contractor         triban Planer       tenantity Survey				
Energy Use	The building has low energy consumption.	Minimum Expectation: The building's energy use is at least 10% less than a reference building.       Nil         Credit Achievement : - Net Zero Path - The building's energy use is at least 20% less than a reference building.       3         22.0       Exceptional Performance: The building's energy use is at least 30% less than a       3	3         Note:           3         The project team to conduct energy simulation to determine performance and the number of points achievable.           3         ALL PERFORMANCE LEVELS Energy use is messured as MLm2/year. This credit defines the reference building as a building modelled to Section J requirements of the National Construction Code 2019 or later. If the building's is subject to a later code, that building must use the later version. The results from the energy model must include all energy consumed by base building systems. Consumption from tenant systems such as plug loads, dor appliances, and manufacturing or process loads are excluded from the calculation. Refer to the Greenhouse Gas Emissions Calculator Coulde for more information. Minimum compliance The residy model must show the following has been met: - For relabuildings, each building's system and facade must comply with the corresponding Section J requirements in the National Construction Code. That building cannot show that ther facade, or any system, performs worse than the reference building even if the overall energy use reduction is 10% or more. - For residential buildings, is on thirdwal apartment can be less than the larger number of. - The minimum NatHERS rating stated - The minimum NatHERS rating state - State wild: - The Minimum Expectation addresses the energy use from the building's systems and the effect of the building's facade. Therefore on-site renewable energy generation systems connected behind the meter cannot be used to calculate reductions in energy use of the building beyond the Mini Expectation requirement for Credit Achievement and Exceptional Performance.	Submissions for this credit must contain:• Submission Summary via the online portal• Submission Support claims made in the submissionSuggested evidence:• Energy modelling report;• Extracts from specifications;• Extracts from commissioning reports;• As built drawings of the façade;• Evidence of renewable energy generation on-site (e.g. contracts, as built drawings); and• Schedule identifying all on-site storage systems installed in the building.	<b>Alternative pathways for demonstrating compliance</b> An alternative pathways is provided for Commercial office buildings. Alternative pathways is provided for Commercial office buildings. Alternative pathways is provided for Commercial office buildings. Alternative pathways may be released at later stages. Project teams are encouraged to propose their ow Technical Question. For commercial office buildings Agreement. This pathway recognises NABERS Energy Commitment Agreements where a NABERS-ree Independent Design Reviewer has completed a full peer review of the base building design and associal performance simulation assessment. The bodelling margin is inclusive of the modelling margin for the NABERS Commitment Agreements are accepted. "The modelling margin is inclusive of the modelling margin for the NABERS Commitment Agreement and completed to Building Design Bath The scope of the NABERS Energy rating is base building only, and currently applies to Class 5 office The energy performance results shall use reference scenario modelling inputs, not off-axis scenario inpi NABERS Energy Quild be Building Energy Extension for more information. This pathway may be used to assess the Class 5 component building oter and the tenant. Av for a base building cannot be base building pervices with enable the tenant to the tenant. Av for a base building cannot be the scensible for defivering outcomes. This extends to Cold Shell areas are base consilie for defivering outcomes. This extends to Cold Shell areas are base building tend whelly on a tenant to be reprived will be met. Alternative, it specified in leasing requirements. This quidance would need to identify (including but not limited to the tenant to build and equipment power allowanes. Those provise in othese double interes. This dudance to identify (including but not limited to) the tenants allowabe internal loads ( and equipment power allowanes. The opprovements. This guidance would need to identify (including but not limited to) the tenants. This guidance would nee				
		Minimum Expectation: The building provides a Zero Carbon Action Plan.       Nil         Image: Nil Image:	Net Zero Carbon in Operations Pathway Bonus         This credit is part of the Net Zero Carbon in Operations path in Green Star Buildings (see page 19 in the Introduction). When the pathway is achieved, an a Leadership Challenge point is awarded to the building for a total of 15 points for this path.         MINIMUM EXPECTATION         Zero Carbon Action Plan         The project team must develop a Zero Carbon Action Plan for the building. The plan must be signed off by the building owner or developer and included in operational documents for the building.         The Zero Carbon Action Plan must include a target date by when the building is expected to operate as net zero carbon. The Zero Carbon Action Plan must energy consumption, procurement, and generation and cannot rely on procuring renewable fuels as its only solution. It must also include infrastructure provion tenants or future occupants such as gas installations for cooking.         The Zero Carbon Action Plan must be done prior to the tender phase of the project. The plan must:	iny cover all	A       A				
Energy Source	The building's energy comes from renewables.	23.0 Credit Achievement : 100% of the building's electricity comes from renewable electricity.	3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	odate       Submissions for this credit must contain:         • Submission Summary via the online portal         ate       • Evidence to support claims made in the submission         Suggested evidence:         • Zero Carbon Action Plan with supporting evidence;         • Signed PPA including extracts on the length of contract;         • Evidence that the PPA or on-site generation covers 100% of electricity or energy; and         • Public commitment to the Global Commitment for Net Zero Carbon Buildings managed by WorldGBC.	<ul> <li>x x x x x x x x x x x x x x x x x x x</li></ul>				
		Exceptional Performance : Net Zero Path 100% of the building's energy comes from renewables.	<ul> <li>EXCEPTIONAL PERFORMANCE.</li> <li>This credit addresses the following:         <ul> <li>Energy under the control of the building owner or operator; and</li> <li>Non-electricity energy uses that are not under the building owners' control, such as cooking or heating that uses liquid or gaseous fuels burned on site, with minor exceptions (see Guidance).</li> <li>Energy use for tenant loads is excluded from this-credit</li> <li>Both on-site and off-site renewables are acceptable</li> <li>Where the project team claims the credit through off-site renewables, the building owner must sign a renewable energy contract. The shortest contract leng</li> <li>Five years; or</li> <li>Where the building is owned and managed by an entity that has signed to the Global Commitment for Net Zero Carbon Buildings managed by WorldGBC shortest contract length is three years. Other commitments may be acceptable through a Technical Question.</li> <li>The contract length is three years. Other commitments may be acceptable through a Technical Question.</li> <li>The contract length is three years. Other commitments may be acceptable through a Technical Question.</li> <li>The contract on be part of a corporate power purchasing agreement for a building portfolio</li> <li>Should infrastructure in the building that can use fossil fuels to power typical building systems exist, the applicant must show how it will not use fossil fuels of the building's operation</li> </ul> </li> </ul>	his:- the-	hydrocarbons. They are currently available and are valid alternatives to current synthetic refrigerants. Market-based method and the renewable power percentage (RPP) Project teams can claim the percentage of renewable energy in the grid (the RPP) as published by the O Regulator at the date of Practical Completion of the building as off-site renewable energy supply. For fur information, refer http://www.cleanenergyregulator.gov.au/RET/Scheme-participants-and-industry/the-ref percentage				
Other Carbon Emissions	The building's emissions from refrigerants and remaining carbon sources are eliminated or offset.	24.0	Composition         CREDIT ACHIEVEMENT           All refrigerants from building systems or domestic appliances provided by the building must be captured in the credit. This includes where fridges or freezer provided as part of a flout package in a residential setting. There are two pathways available:           • Eliminates high-GWP refrigerants from the building; or         • Offsets 100% of carbon emissions from refrigerants.           Eliminating refrigerants         High-GWP refrigerants must be eliminated from the building. The use of refrigerants with a GWP of 10 or less is considered to comply with the credit. Nature refrigerants in most cases comply with this criterion.           Offsetting refrigerants         Emissions are calculated by multiplying the total refrigerant charge by its Global Warming Potential (GWP) for each type of refrigerant, and adding these to Where refrigerants are used in the building, adequate access for maintenance and/or replacement must be provided.           EXCEPTIONAL-PERFORMANCE         This Exceptional Performance arise to address emissions that have not been addressed by claiming other credits. If other credits have been claimed, the credit are to be offset in this credit are:           • Emissions from the building's electricity use (as determined in the Energy Use credit) multiplied by the grid coefficient (unless the Energy Source Credit-Achievement is met, in which case these emissions are zero);           • Upfront carbon emissions as determined in the Upfront carbon emissions is met, in which case these emissions zero);	alSubmissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Confirmation that refrigerants have been eliminated from the building along with supporting documentation (e.g. mechanical as built drawings); • Calculations showing the total refrigerant charge to be offset; • Evidence of purchase of offsets (e.g. contract) clearly showing the length of offset; and • Overview of the remaining carbon emissions and evidence of their offset.	x       x				
		Exceptional Performance: All other emissions not captured in the Positive category- are eliminated or offset	<ul> <li>θ</li> <li>Eite-cycle emissions from modules B and C as calculated in Life Cycle Impacts;</li> <li>Emissions from construction equipment use, and utilities during construction on site; and</li> <li>Construction waste emissions.</li> <li>The project team must include the above and any other carbon emissions over 1% of the total carbon emissions profile for the building (significant emission Alternative calculation method for Exceptional Performance.</li> <li>As an alternative path to calculating emissions from items 4 to 6 the building owner can make an additional offset purchase equal to 5 years of modelled oper energy use (from the Energy Use credit), multiplied by the current grid coefficient to cover additional emissions not captured by any other calculation. These offsets for future operational use, rather they address emissions related to other carbon sources not already captured.</li> </ul>	rational-					



TOOL: GREI DOCUMENT	R SCORECAR EN STAR BUIL REVISION: 2.0	DING	S V1 DATE: 25/02/2025	20 AVON RD, PYMBLE NSW GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 4														
Note: details below CATEGORY / CREDIT	OUTCOME	de only, ш оо	CREDIT CRITERIA	POINTS TO TARGET POINTS TO TARGET POINTS TO TARGET Nominated Area	Requirements	Submission Content	3uilding owner 1ead Contractor Project Architect	Structural Consultant Aechanical Consultant Electrical Consultant Aydraulics/Fire Consultant Aechanical Contractor	SMS / Control Contractor Electrical Contractor Hydraulics / Fire Contractor ESD Consultant	Ecologist Acoustic Specialist Civil Engineer / Contractor	Janner Juantity Surveyor Guiqauce							
Water Use	The building has low water use.	25.0	Minimum Expectation:         The building installs efficient water fixtures or uses 15%         less potable water compared to a reference building.         Multi-unit residential buildings use 10% less potable water compared to a reference building.         Credit Achievement:         The building uses 45% less potable water compared to a reference building.         Multi-unit residential buildings use 40% less potable water compared to a reference building.         Multi-unit residential buildings use 40% less potable water compared to a reference building.         Exceptional Performance:         The building uses 75% less potable water compared to a reference building.         Exceptional Performance:         The building uses 75% less potable water compared to a reference building.         Each unit in an apartment building uses 60% less potable water compared to a reference building.	III     Image: A constraint of the const	MINIMUM EXPECTATION         There are two pathways for demonstrating compliance with this criterion:         - Follow the prescriptive approach that describes fixture and appliance efficiency; or         - Show al 5% reduction against a reference building through the GBCA's Potable Water Calculator         Either one will suffice to achieve the Credit Achievement.         Sanitary fixture and appliance efficiency         All fixtures and water-using appliances installed within the project's scope must, at a minimum, meet the following WELS rating:         Taps       6 star         Urinals       5 star         Toilets       4 star (below 4.5L/min)         Clothes Washing Machine       4 star         Dishwashers       5 star         Dishwashers       5 star         Potable water reduction compared to a reference building         The GBCA's Potable Water Calculator assists in calculating how much more efficient a building is compared to a reference building. It considers fixtures, appliance: and water reuse systems.         CREDIT ACHIEVEMENT         The building uses 40% less potable water compared to a reference building.         Multi-unit residential buildings used alongside the Potable Water Calculator must be used alongside to a reference building.         The building uses 45% less potable water compared to a re	Submissions for this credit must contain:         • Submission Summary via the online portal         • Water Use calculator         • Evidence to support claims made in the submission         Suggested evidence:         • WELS certificates;         • Manufacturer's data;         • Drawing(s) for each typical floor showing isolation valves for floor-by-floor testing of the fire sprinkler system, and drawings of the water storage and re use system(s);         sprawing(s) clearly showing the location of all heat rejection equipment installed on the project;         • Drawing(s) clearly showing the location of all heat rejection equipment installed on the project;         • Drawing(s) clearly showing the location of all heat rejection equipment installed on the project;         • Drawing(s) clearly showing the landscape design and the irrigation system, listing the name, location, and plant species zone as it appears in the Calculator;         • Manufacturer's information including backwash volume and frequency of filter cleaning; and         • Drawing(s) of process cooling water usage loops.	x	<u>v 2 m t 2</u>			Shared services This credit rewards projects for reduction in potable water usage due to the use of reclaimed wat rainwater, greywater, blackwater, stormwater or supplied reclaimed water. Bore water is not a su potable water. The Potable Water Calculator allows for the inclusion of the amount of non-potabl from a central or shared service for use within the building.							
Life Cycle Impacts	The building has lower environmental impacts from resource use over its lifespan than a typical building.		Credit Achievement: The project demonstrates a 30% reduction in life cycle impacts when compared to standard practice.	2 2 2 Site-wide	CREDIT ACHIEVEMENT         The reduction in life cycle impacts must be demonstrated through a whole-of-building, whole-of-life (cradie to grave) comparative Life Cycle Assessment (LCA), as defined by EN 15978. All EN 15978 modules (A to D) must be included in the assessment.         The reduction in life cycle impacts must be demonstrated through a whole-of-building, which will apply normalisation and weightings to the results to determine compliance with the credit. Results are to be reported in the functional unit of per square metre of Gross Floor Area (GFA).         The reduction must be against the impact categories on page 154 table.       The reduction in life cycle Assessment (LCA), as defined if the calculated impact in any one category increases the total normalised and weighted score for the project by more than 10%.         For all building types, a standard practice reference building as per EN 15978 must be used. The reference building must be a standard practice, code-compliant design, which is fit-0r-purpose for the site and operating conditions of the proposed building.         Whole-of-Building as defined in EN 15978. Refer to section 7.5 The Building Modef.         System boundary         Cradie to grave, including all life cycle modules (modules A to D) and scenarios as detailed in EN 15978.         Functional unit         Impacts are assessed and reported on a per square metre (m2) project Gross Floor Area (GFA) basis.         Service life of perpaceable building and construction elements         Use actual product/material design life, or refer to table 9: Indicative component lifespan of RICS professional standards and guidance, UK Whole life carbon assessment or the b	Submissions for this credit must contain: • Submission Summary via the online portal • Life Cycle Impacts calculator • Evidence to support claims made in the submission Suggested svidence: • LCA Report; • Peer Review Statement; • LCA practitioner completencies statement or LCACP certificate for practitioner and peer reviewer; • Standard Practice Reference Building Documentation; and • Actual Reference Building Documentation.	x x x				<ul> <li>Upfront Carbon Emissions credit         The results from this credit can be used to demonstrate compliance with the Upfront Carbon Err ICA Data         When conducting the LCA for the project, the following Green Star based inputs shall be consis         • Reference Building operational energy benchmarks as used in the Energy Use Calculator for t energy use;         • Reference Building Water usage as used in the Water Use credit (if targeted); and         • Product-specific and industry-wide EPDs submitted in response to the Responsible products or Emission factors for electricity use         If the building has a design life of 60 years or more, future energy projections assuming decarbc supply may be calculated using current state/territory emissions factors and dividing by four.         The division by four assumes a linear taper of grid emissions to zero carbon over the first 30 year then continuing zero carbon emissions for the following 30 years (divide by two again).         The same emissions factor for the sourced electricity may be applied for the secured contract the contract and for the remaining lifespan of the building, the standard emissions factor is to be applied across the whole life span of the building. If the Ener targeted, the emissions factor for the sourced electricity may be applied for the secured contract the contract and for the remaining lifespan of the building, the standard emissions factor is to be the fit the design life of the building is shorter, future energy projections must be calculated for both t LCA models in accordance with RICS (2017) Section 3.4.2 Future energy projections – Decarbot supply.         Effects of the Zero Carbon Action Plan         The factor reference building shall be agreed through consultation with structural, m and architectural professionals.         The Reference Building shall be representative of standard practice for a building of the same cl project.</li></ul>							
TOTAL			3	0 14														
PLACES			8	3														
			Minimum Expectation: The building includes showers and changing facilities for building occupants that are accessible, inclusive and located in a safe and protected space.	To Comply	MINIMUM EXPECTATION         The project must meet both criteria listed below:         • Changing facilities         • Accessible, inclusive, and located in a safe and protected place         Changing facilities         The design of the shower facilities must be appropriate to encourage their use. The project team is expected to justify how their location, locker sizes, privacy requirements, and size meet this aim.         Showers         The building must install showers and lockers based on the occupancy of the building:         Occupants         0 - 49 1 Unisex         49 - 50       2         100 - 200       4         200+       Additional 1 per 200 occupants above 200         All showers must be at least 900m x 900m to enhance usability. Showers and bathrooms provided to meet statutory accessibility requirements do not count towards the minimum showers required to meet this Minimum Expectation.         Lockers       One locker must be provided for every eight staff occupants. The lockers must be secure and located in the changing rooms. Lockers provided within tenancies, not in changing rooms, do not count toward this credit.         Accessible, inclusive, and located in a safe and protected place       Upon access must be allocated in a safe and protected place         Upon accessing, pedestinas and cycliss must be protected from the elements and other vehicles. Access must be safe, with consideration given to avoiding steep gradients, surface grip levels and visibility around tight corners. <t< td=""><td></td><td></td><td></td><td></td><td></td><td>MINIMUM EXPECTATION Applicability This Minimum Expectation applies to all building types except residential. Occupancy rates When calculating occupancy rates, if the project design occupancy values are available prior to i</td></t<>						MINIMUM EXPECTATION Applicability This Minimum Expectation applies to all building types except residential. Occupancy rates When calculating occupancy rates, if the project design occupancy values are available prior to i							



or to issuing of Tender

	S V1 DATE: 25/02/2025		PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 35 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (5 STAR WITH 7 BUFFER POINTS)								
Note: details below are provided as a guide only,         CATEGORY /         CREDIT	where required the project team shall refer	POINTS AVAILABLE POINTS TO TARGET POINTS TO TARGET Nominated Area	ngs V1 for further details. Requirements	Submission Content	ilding owner ad Contractor oject Architect uctural Consultant chanical Consultant chanical Consultant chanical Consultant chanical Consultant chanical Consultant chanical Consultant for chanical Consultant chanical Consultant chanical Consultant chanical Consultant chanical Consultant chanical Consultant chanical Contractor for chanical Contractor is / Contractor for chanical Contractor antity Surveyor	Guidance						
	Credit Achievement : The building's design and location prioritises walking, cycling, and transport options that reduce the need for private fossil fuel powered vehicles.	3 3	- Reducing pixels vehicle use; and     - Encorriging walkability;     Cyclist facilities     The building's access must be velicity on whites. The building's access must be well fit, weather     protected, and separated from vehicles. The building's access to cyclist facilities that are separated from the primary     vehicle amance to snarre statey;     Cyclist facilities     must manuer the cycling equipment is antify secures. The amount of cyclist facilities is to be informed by the Sustainable Transport     Plan.     In a result of building's access point must connect to be released cycling alonge facilities. If these are at a unit level, the project     Sustainable Transport     Plan.     The project team must prepare and implement a Sustainable Transport Plan. The requirements or recommendations made in the Sustainable Transport Plan must     then be reflected in the design of the duilding's facilities and/or and organizational processes.     A addition of the upylical mode share for the development location and development type;     A target mode share for the development location and development type;     A definition of thuse projects which may change or influence mode share (such as planned, or upper construction infrastructure) and the year of completion for     there inflated and influence in the advelopment type;     A definition of thuse projects which may change or influence mode share (such as planned, or upper construction infrastructure) and the year of completion for     there inflated and individual sectors and a subtiling the Sustainable Transport Plan in the building's objective and the subtiling's objective and the subtiling the subtiling's boreadianal planee.     The building material subtiling the subtiling the manuer intervence in the operational processes     Hentification of thuse projects which my change or influence mode share (such as magneter the vehicles are electric at the inflate or planned and the sector at the inflate or planned and the sector at the inflate or planee an		X X X X X	ocumentation, these take precedence. When these are not available, the project should use the design staff) estimation for their Development Application. ocation of changing facilities adulties can be provided within the building's boundary, or outside. If the facilities are outside the site be to the second the reasonable walking distance, under the control of the building owner and be accessible ccupants (depending on the users being served by those facilities). Reasonable walking distance is de intute walk or less. The design of the shower facilities must be appropriate to encourage their use. The building should cone use as ironing boards, iron, hanging racks, power points, mirrors, facial lighting and any other facilities ptake. The project team is expected to justify how their location, locker sizes, privacy requirements, and in. <b>REDIT ACHIEVEMENT</b> <b>Wildably Qualified transport planner shall hold a relevant tertiary qualification (including, but not limit criticature, engineering, sustainability and planning) and comply with at least one of the tollowing: Minimum five years's experience in transport planning: Has co-authored at least five building Sustainable Transport Plan / Green Travel Plans or similar; or Chartered member of a relevant industry body. acutang amenities here possible, connections between the building and amenities should have shade and shelter along gi left as be well it and safe. Major obstructions, such as highways, limit an individual's capacity to walk. A nose are found, they act as virtual barriers, and, unless the crossing is within the 400 meters, all amenit bistruction cannot be counted. menities that are similar in nature to that of the development cannot be considered for purposes of this struction cannot be counted. menities that are similar in nature to that of the development cannot facility. Where there are two or more menity, this will count as only one amenity. For example, three food and beverage shops will only count menity, four convenience </b>						
Enjoyable PlacesThe building provides placesthat are enjoyable and28.0inclusive.1	Credit Achievement : The building delivers memorable, beautiful, vibrant communal or public places where people want to gather and participate in the community. The spaces are inclusive, safe, flexible and enjoyable.	2 2 Site-wide	CREDIT ACHIEVEMENT         The project must meet both criteria listed below:         - Provide new publicly-accessible spaces that are enjoyable and support community activity and interaction are provided.         - Provide new publicly-accessible spaces that are enjoyable and support community activity and interaction are provided.         - Deliver an Activation Sintegry to facilitate initiation of placemaking activities.         Publicly accessible spaces         Communal or public space must be provided to the following extent:         Building size (n2)         Communal or public space must:         All outiding size (n2)         Communal or public space must:         All outiding size (n2)         Commodate community-based activities;         Have capacity and fability to opariat in multiple modes of usage;         Demonstrate relevance of the space for local people (demographics, social profile, current needs);         Demonstrate relevance of the space for local people (demographics, social profile, current needs);         Demonstrate the space has be designed for enjoyment; and         Building size (n2)         An activation activitie;         How the activation activitie;         How the activation activitie; <td>Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Site plans showing the size of public or communal spaces; • Letter from the building owner confirming the space is publicly accessible and may be used for free; • An overview of how the public or communal spaces comply with the requirements (e.g. flexible); • A narrative of how the spaces have been designed for enjoyment; and • Activation strategy.</td> <td></td> <td><b>applicability</b> or multi-unit residential projects, public space may not be desired byresidents. Some developments ma ommunal/shared spaces for residents and visitors, but not completely public spaces. This is acceptable rojects only. <b>Existing communal space prior to the building cannot be considered.</b> The purpose of this credit is to creat ommunal spaces. <b>beign for enjoyment</b> the building can demonstrate that provided spaces are enjoyable through Design Plans, Landscape Plat export (or equivalent), which describe and demonstrate: Application of Crime Prevention Through Environmental Design (CPTED) principles, and design initiati afety; Inclusive design elements; Design for people and usage, demonstrating spatial flexibility/adaptability, potential uses/activities in sp nodes ofoperation, and day and night uses; Pracemaking/Place activation approaches; Accommodating retail/commercial activity (cafés etc.) and more open public usage; Providing comfort and amenity: seating, shading and shelter from the elements; and Demonstrate materials and products of high quality and durability. <b>Goep of credit</b> The nature of fontages to new places; Occupation or habitation of places for commercial purposes; and Activation outcomes (contributing to activity). Fenants for the purposes of this credit. <b>chypyable Places design ources to support design high quality, enjoyable places can be found below: Government Architect New South Wales: Implementing Good Design ttps://www.governmentarchitect.nsw.gov.au/resources/ga/media/files/ga/strategy-documents/better-place esign-policy-for-the-built-environment-of-new-south-wales-2017.pdf <b>Government Architect New South Wales: Implementing Good Design ttps://www.governmentarchitect.nsw.gov.au/resources/ga/media/files/ga/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/di</b></b></td>	Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support claims made in the submission Suggested evidence: • Site plans showing the size of public or communal spaces; • Letter from the building owner confirming the space is publicly accessible and may be used for free; • An overview of how the public or communal spaces comply with the requirements (e.g. flexible); • A narrative of how the spaces have been designed for enjoyment; and • Activation strategy.		<b>applicability</b> or multi-unit residential projects, public space may not be desired byresidents. 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This is acceptable rojects only. <b>Existing communal space prior to the building cannot be considered.</b> The purpose of this credit is to creat ommunal spaces. <b>beign for enjoyment</b> the building can demonstrate that provided spaces are enjoyable through Design Plans, Landscape Plat export (or equivalent), which describe and demonstrate: Application of Crime Prevention Through Environmental Design (CPTED) principles, and design initiati afety; Inclusive design elements; Design for people and usage, demonstrating spatial flexibility/adaptability, potential uses/activities in sp nodes ofoperation, and day and night uses; Pracemaking/Place activation approaches; Accommodating retail/commercial activity (cafés etc.) and more open public usage; Providing comfort and amenity: seating, shading and shelter from the elements; and Demonstrate materials and products of high quality and durability. <b>Goep of credit</b> The nature of fontages to new places; Occupation or habitation of places for commercial purposes; and Activation outcomes (contributing to activity). Fenants for the purposes of this credit. <b>chypyable Places design ources to support design high quality, enjoyable places can be found below: Government Architect New South Wales: Implementing Good Design ttps://www.governmentarchitect.nsw.gov.au/resources/ga/media/files/ga/strategy-documents/better-place esign-policy-for-the-built-environment-of-new-south-wales-2017.pdf <b>Government Architect New South Wales: Implementing Good Design ttps://www.governmentarchitect.nsw.gov.au/resources/ga/media/files/ga/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/discussion-papers/di</b></b>						
Contribution to a positive contribution to the 29.0	Credit Achievement: The building's design contributes to the liveability of the wider urban context and enhances the public realm.	2 2 Site-wide	CREDIT ACHIEVEMENT         There are two pathways for demonstrating compliance with this credit:         • Urban Context Report and public realm interface design; or         • Independent design review         Either one will suffice to achieve the Credit Achievement.         Urban Context analysis         Urban Context analysis         Urban context analysis         Urban context analysis         Outline any planned changes to the local area (for example if located in a growth zone) and the project's design responses. The report must include Local or State Government's vision for the area; and         - Outline any local challenges which the building can contribute to address.         - Design responses:         - Demonstration of the design responses to the urban context analysis; and         - Demonstration of the design response to not the development of the design.         Independent Design review         Design reviews are held at key points in the development of the design. At a minimum, these must occur as follows:         • Design review during concept/schematic design stage, to ensure that proponents can take advantage of the advice offered at a time where the design is flexible	Submissions for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Urban context analysis         • Extracts from the urban context analysis, or various relevant reports that address requirements from this credit;         • As built or site drawings showing how the building responds to the urban context report; and         • Architectural drawings showing the public realm interface design.         Design review panel         • Evidence to demonstrate that a design review process has been undertaken;         • Details of the panel members and their experience relevant to this credit's requirements; and         • A declaration from the project application confirming that the design review panel meets the independency requirements	X X X X X P	Irban context analysis here are many planning policy documents, design guidelines and other reference documents which pro pr responding to context and building frontage. These tend to be at the local government or regional/stat evel, so differ from place to place. However, the overarching principles are generally consistent. Examples include: Better Placed – Integrated Design Policy for the Built Environment of NSW; Evaluating Good Design (NSW) provides 9 Criteria for 'Better Fit' (page 5); Central Melbourne Design Guide provides quantified requirements for extent of active frontage and gro pace; and Urban Design Guidelines for Victoria include a Buildings chapter with guidance for interfaces Public realm interface The building con contribute positive to its context by providing well designed active frontages. The buildi an be articulated by: Providing visual and physical permeability on ground level frontages; Using designs, materials, colour, and details to break long sections to make it attractive to walking; Having sidewalks around the building to encourage safe walking and cycling activities, as well as provie destrians and other activities, particularly with trees; and Designing entrances to be welcoming and to contribute to the public realm.						



### se the design occupancy

le the site boundary, they be accessible to all building distance is defined as a five-

should consider features ther facilities to encourage ements, and size meet this

out not limited to, owing: imilar; or

shelter along the route, as acity to walk. As such, where s, all amenities beyond the poses of this credit. For e two or more of any one vill only count as one

opments may provide s acceptable for residential

edit is to create new

ndscape Plans and Design design initiatives to support tivities in spaces and

xperience and enjoyment of

e no requirements for

s/better-placed-a-strategic-

discussion-paper-

discussion-paper-

ents which provide guidance r regional/state government

ntage and ground-level floor

s. The building's frontages

o walking; s well as provide shading for

GREEN STAR SCORECARD & PATHWAY TOOL: GREEN STAR BUILDINGS V1 DOCUMENT REVISION: 2.0 DATE: 25/02/2025 Note: details below are provided as a guide only, where required the project team shall refer to the Green Star B				er to the C	Green Star Build	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MIN GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MININ		NR W	/ITH 7	7 BUI	FFER F	POINTS)
CATEGORY / CREDIT	OUTCOME	CODE	CREDIT CRITERIA	POINTS AVAILABLE	Nominated Area	Requirements	Submission Content	uilding owner ad Contractor oject Architect ructural Consultant	echanical Consultant ectrical Consultant	yaraulics/Fire Consultant echanical Contractor MS / Control Contractor ectrical Contractor	ydraulics / Fire Contractor a SD Consultant budscape Consultant / Contractor A	cologist coustic Specialist vil Engineer / Contractor ban Planner	Guidance
						<ul> <li>enough to accommodate change without impacting on time and cost constraints;</li> <li>A subsequent review when the design has been further progressed. This review session will typically occur during design development; and</li> <li>At building permit stage (after development approval) a further check must take place by the Design Review Panel Chair or delegate, to ensure that the final design reflects approved development application and any relevant conditions related to design quality.</li> <li>Composition of the Design Review Panel</li> <li>As a minimum the Design Review Panel must be comprised of one panel chair and two panel members. Members of the panel must:</li> <li>Possess project-relevant skills and experience;</li> <li>Be recognised experts in their discipline, with a minimum of 10 years' experience;</li> <li>Be registered by a relevant professional peak body and be bound by that institutes' code of ethics in relation to objectivity,integrity and accountability; and</li> <li>Have expertise relevant to this credit.</li> </ul>	Alternate documentation can also be used by project teams to demonstrate compliance. The key requirement is that evidence is provided to support each claim made within the Submission Summary.		<u> </u>				Example of negative impacts Negative impacts that could be captured in the Urban Context Analysis include wind, noise and shap ollution, and the urban heat island effect. If the Heat Resilience credit has been achieved, it does not included in the Urban Context Report for the purposes of the Contribution to Places credit. Relationship between Contribution to Place and Enjoyable Places The key difference between the two credits is that Contribution to Place deals with the surrounding building, while Enjoyable Places deals with areas on-site. Should projects target both credits, it is e consider how the building's designs may negatively impact the public spaces provided under the E credit.
Culture, Heritage and Identity	The building reflects local culture, heritage and identity	20.0	Credit Achievement : The building's design reflects and celebrates local demographics and identities, the history of the place, and any hidden or minority entities. This celebration was arrived through meaningful engagement with community groups early in the design process.	1	Site-wide	CREDIT ACHIEVEMENT         There are two pathways to achieving this credit:         - Community led design responses, or         - Independent design review         Ether on will adding the project the Credit Achievement.         Community led design response         - Independent design review         Ether on will adding the project the Credit Achievement.         Community led design response         - Independent design review         - Status understate community engagement as part of this local analysis to identify unlikers. As a result of community engagement, the project must reflect local identity, culture and heringe; and the design of the building in a publicly demonstrable way. This can be achieved through:         - Orminuity are place adding projects:         - Selection of supplers/designers of athwork or cultural elements;         - Building determinis that tell ators of the past and heringe; and         - Spanse and uses that reflect the local identities.         Independent Design Review         Design Review during conceptichematic design tas be number the propresents.         - A subsequence design has been further progresses.         - A subsequence design has been further progresses.         - A subsequence design base been further progresses.         - A subsequence descipant explorement approval) a further check must take place by the Design Review Panel Chair or delegate, to ensure that the final design reflects approved development apoplication	Submissions for this credit must contain: • Submission Summary via the online portal • Evidence to support dalms made in the submission Suggested evidence: Community led design responses • Culture, Heritage and kleintly Report outlining key findings of the local analysis and how community engagement activities influenced the design: and • As built drawings, site drawings, architectural drawings showing how the culture, heritage and identify is incorporated into the buildings designs. Design review panel • Evidence to demonstrate that a design review process has been undertaken; • Jotalis of the panel members and their experimence relevant to this credit's requirements; and • A declaration from the project application confirming that the design review panel meets the independency requirements.						<ul> <li>Local analysis It is recommended that projects undertake an analysis of the local community in order to identify cuidentity unique to the location. This analysis should inform the projects' strategy and design as early as possible, p Development Application (DA). This is to ensure that the research can meaningfully be integrated into the buildin being an alterthought e.g. spatial designs or land uses that reflect the local culture and identity is preferable idesign on a façade. The culture, identity and heritage reflected in the building are likely to be those of the past and press occupants and the property owner/manager may have different views and the place should be designed so that it of a chieve meaningful engagement. To achieve meaningful engagement, it is recommended that engagement activities commence as a before Development Application) so that the community is involved from the beginning of the project. Engrafter most of the decisions are made means their input is unlikely to be reflected; and it is more difficult to obtain buy-in. Guidance tools such as the International Association for Public Participation (IAP2), can be used to community engagement activities. While it is recognised that demonstrating deep engagement is difficult and relies on qualitative rath assessment. there are success factors that can be used to guide the project team during the engagement process helped by a focus On: Depth of research on community engagement; and Extent to which community engagement and pre-occupation can be different from the actual users or purpose of the engagement is not to respond to self-interests of the individuals, but rather to gather data and insigi important to the counsers and dentity report The Culture, heritage and identity report should be designed so that it can evolve with them. Cuture, heritage and identity report should be desis of the local anal</li></ul>
TOTAL				8 8	3								
PEOPLE													
Inclusive Construction Site (Practices)	The builder's construction practices promotes diversity and reduces physical and mental health impacts.	31.0	Minimum Expectation:         During the building's construction, the head contractor provides gender inclusive facilities and protective equipment. The head contractor also installs policies onsite to increase awareness and reduces instances of discrimination, racism and bullying.         Credit Achievement :         The head contractor provides high quality staff support onsite to reduce at least five key physical and mental health impacts relevant to construction workers. They must also evaluate the effectiveness of their interventions.		Site-wide	MINIMUM EXPECTATION           The head contractor must ensure the following is provided, or available, on-site:           Separate gender inclusive bathroom facilities and changing anentiles with a high degree of privacy; and           Diverse gender-specific Hi-for-purpose personal protective equipment (PPE) for diverse body sizes and types.           The head contractor must:           Implement policies to address issues of discrimination, racism, and bullying on-site;           Introduce on-site redress procedures for any relevant breaches, and corractive measures to be put in place should any incident be identified;           Empower a diverse lead learn to manage these policies on site, and           Provide training to all contractors and sub-contractors on these policies (as per below).           The head contractor must provide the following training to 9% of all contractors and subcontractors present on site for at least three days:           Information on drug and alcohol avareness and mental health; and           Information on policies implemented directly by the head contractor or through partnerships with mental and physical health organisations.           The programs or solutions can be implemented directly by the head contractor to thorugh partnerships with mental and physical health organisations.           The programs must cover at least 80% of the workforce that have attended the site for more than three days from commencement on site to practical completion.           Physical and mental health impacts           The programs must cover at least 80% of the workforce that have attende	Submissions for this credit must contain: • Submission Summary via the online portal • Svidence to support claims made in the submission Suggested evidence: Minimum Expectation • Description of the types of PPE available to construction workers; • Evidence of purchase of appropriate PPE; and • Extracts for relevant policies that address discriminating, racism and bullying. Credit Achievement • Evidence detailing the programs and policies implemented to promote health and wellbeing on site; • Evidence detailing the programs and policies implemented to promote health and wellbeing on site; • Evidence detailing the programs and policies implemented to promote health and wellbeing on site; • Evidence detailing the process to manage training, and track workers trained. Examples of evidence include extracts from the training policy, a report from a third-party provider, or similar; and • Extracts of training such as screenshots, presentation, or similar, showing the information provided as part of training.						MINIMUM EXPECTATION Gender inclusivity This Minimum Expectation is seeking to remove physical barriers to participation in the construction different groups, particularly women who represent less than 2% of the construction and building w (https://tradeswomenaustralia.com.au/). The provision of gender inclusive bathrooms and changing facilities are a minimum. Should the bu identify opportunities to provide additional facilities and gender-specific PPE to celebrate diversity, pursued. Where this is the case, the building may seek an additional point(s) in the Leadership ca Market Transformation. CREDIT ACHIEVEMENT Criteria definition When training and policies are developed, consideration should be given to the method and form o cultural and anguage barriers.



entify culture, heritage and sible, preferably before ouilding design rather than erable to an add-on graphic

nd present. Future users, hat it can evolve with them. e as early as possible (i.e ct. Engaging the community obtain the community's sed to influence

ve rather than quantitative process. This will be

users or occupants. The d insights on what is nd the property

ne how community

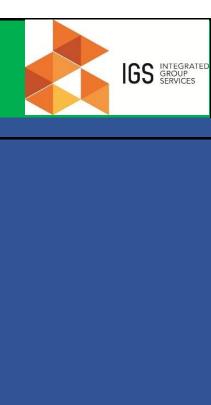
stakeholders by relevant ng evidence; and t activities.

truction workforce for ding workforce

d the building's construction versity, they should be rship category, under

form of delivery to address

TOOL: GREE DOCUMENT	R SCORECARD & I EN STAR BUILDING REVISION: 2.0	GS V1 DATE: 25/02/2025			PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 3 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42		WITH 7	7 BUFF	FER PC	OINTS)
Note: details below	OUTCOME	ly, where required the project team shall rea	fer to the Gree POINTS AVAILABLE POINTS TO TARGET	en Star Buildi Nominated Area	ngs V1 for further details. Requirements	Submission Content	Building owner Head Contractor Project Architect Structural Consultant Mechanical Consultant	Electrical Consultant Hydraulics/Fire Consultant Mechanical Contractor BMS / Control Contractor Electrical Contractor	Hydraulics / Fire Contractor a ESD Consultant Landscape Consultant / Contractor A Ecologist	Acoustic Specialist Civil Engineer / Contractor Urban Planner Quantity Surveyor	Guidance
Indigenous Inclusion	The building celebrates- Aboriginal and Torres Strait- Islander people, culture and- heritage	Credit Achievement : The building's design and construction celebrates- Aboriginal and Torres Strait Islander people, culture and- heritage by undertaking one or both of the following:- • Playing an active role in the organisational Reconciliatio Action Plan; and • Incorporating design elements using the Indigenous- Design and Planning principles.	η <b>2</b> θ	N/A	CREDIT ACHIEVEMENT         There are two pathways to meeting this credit:         • The building's design and construction played a central role in the delivery of the targets in the project owner's organisational Reconciliation Action Plan (RAP):-         • The building's design process followed Indigenous Design and Planning principles.         Both require visible and inclusive participation of Aboriginal and Torres Strait Islander throughout the project's life cycle,-         Reconciliation Action Plan.         To meet this Credit Achievement, the project team must domonstrate that:-         • A key member of the Project Team is part of the organisational RAP Working Group;         • At least 90% of the RAP targets have been must domonstrate that:-         • Akey member of the Project Team is part of the organisational RAP Working Group;         • Atli-implemented actions related to the RAP are publicly reported on the Project's website.         Inclusion of Indigenous design         The project team must demonstrate that the Australian Indigenous Design Charter guiding principles are incorporated in the design of the building including::         • How who project team must demonstrate that and communities have been engaged throughout the design development;         • How who project team must demonstrate that and cultural values of the project will be made available to the public, visitors and building tenants in the operational phase the project life.         A a minimum, the following four principles from the Australian Indigenous Design Charter are to be addressed.	Submissions for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:-         Reconciliation Action Plan (RAP)         • Extract from the Reconciliation Australia website demonstrating that the project's RAP is endorsed by Reconciliation         Australia;         • Extracts from the organisation's Annual Report or website (or similar) demonstrating that the RAP is publicly reported         upon;         • Reconciliation Action Plan Report (or similar) on the outcomes from the project's RAP demonstrating that at least 90% of         the RAP targets have been met in the first reporting cycle; and         • Evidence that a key member of the project team is also on the RAP working group         Inclusion of Indigenous Design-         • Evidence of Aboriginal and Torres Strait Islander engagement from concept design throughout the project's life cycle;         • As built drawings or photographic evidence of incorporated designs;         • Evidence of information being made available to public (e.g. website); and         • Comparison against the four principles from the Australian Indigenous Design Charter.					Engagement For meaningful engagement to be undertaken, the nominated representatives should be identified and contacted is early in the design process as possible. Best practice guides do exist. Some examples include: Engaging with Indigenous Australia—exploring the conditions for effective relationships with Aboriginal and Torre Strait Islander communities— National Science an Environment Program: Indigenous Engagement Guidelines. Australian Indigenous Design Charter (AICD) The Australian Indigenous Design Charter (AICD) The Australian Indigenous Design Charter (aiction) Indigenous knowledge in communication design practice. There are 10 principles developed a formal protocol on sharing- indigenous knowledge in communication design practice. There are 10 principles developed to ensure the representation of Aboriginal and Torres Strait Islander culture is developed in a respectful manner. These can be incorporated in any form of design, ranging from graphics and art to buildings and infrastructure design.— For more information on the context, role and protocols of these principles, including definitions, please refer to the original AIDC charter: http://indigenousdesigncharter.com.au/australian-indigenous-design-charter/- Database for indigenous consultancies- Project teams wanting to engage with qualified consultants such as Stakeholder Engagement Consultants, Aborig Artists,— Indigenous Specialists, Local Land Officers should consider Supply Nation is a starting point for finding these- professionals to provide- expertise on appropriate and authentic research, analysis and design services. https://supplynation.org.au/Local councils— Lands Councils represent the local communities and Aboriginal landowners during consultation processes of land use proposals. There are councils in each state which are a key source of information for projects based in th areas. Links are provided below as a starting point for project teams Page 185 Table
Procurement & Workforce Inclusion	The building's construction- facilitates workforce- participation and economic- development of- disadvantaged and under- represented groups	Credit Achievement: Through the implementation of a social procurement- strategy, at least 2% of the building's total contract value- has been directed to generate employment opportunities for disadvantaged and under-represented groups	2 θ		CREDIT ACHIEVEMENT & EXCEPTIONAL PERFORMANCE: Social procurement strategy The project team must develop and implement a social procurement strategy or plan (this can be part of an overall project procurement plan/strategy). The project team must also include: trategy The project team must develop and implement a social procurement strategy. Social procurement strategy The plan must also include: • A description of the project's social procurement and workforce objectives, needs, and targets; • A description of the project's social procurement and workforce objectives, needs, and targets; • A description of the project's social procurement and workforce objectives, needs, and targets; • A description of the project's social procurement and workforce objectives, needs, and targets; • A descriptions of the roles and responsibilities in the implementation and monitoring of social procurement and workforce targets and contracts; • Pata callection and responsibilities in the implementation and monitoring of social procurement and workforce targets and contracts; • National and responsibilities in the implementation and monitoring of social procurement and workforce targets and contracts; • Pata callection and responsibilities in the implementation and monitoring of social procurement and workforce targets and contracts; • National and responsibilities in the implementation and monitoring of social procurement and workforce targets and contracts; • Patient and the project director; Projects must report the lollowing at the imme of practical completion; • Deliar spent and as a proportion of building contract value; • Social procurement of the imme of practed and under represented groups can be achieved; • Diversity of the project of disdowntaged and under represented groups can be achieved; • Diversity, through social procurement. A combination of these strategies; can be used to achieve the credit, as long as the total dollar spend on the above activities is equal to or greater than Criteria = p	Submissions for this credit must contain:         • Submission Summary via the online portal         • Submission Summary via the online portal         • Evidence to support demiser made in the submission         Suggested evidence:         • Social Procurement Plan;         • Evidence of accial procurement targets in main contracts and sub-contracts;         • Evidence of accial procurement targets in main contracts and sub-contracts;         • Evidence of accial procurement targets in main contracts and sub-contracts;         • Evidence of accial procurement targets in main contracts and sub-contracts;         • Evidence of accial procurement targets in main contracts and sub-contracts;         • Evidence that enterprises are independently certified by third party organisation					Disadvantaged and under-represented groups This credit addresses groups such as, but not limited to: • Aboriginal and/or Torres Strait Islander people; • Women in non-traditional roles/ professions; • Apprentices; • Those from a culturally and linguistically diverse (CALD) background; • Long-term unemployed; • Refugees and asylum seekers; • Ex-offenders, and • Disabled. A person who is represented by many groups may contribute more than once. <b>Eligible construction procurement</b> The following definition of construction from the Victorian Social Procurement Framework is being used. Dollar spent relates to activities including: any construction, maintenance, rehabilitation, alteration, extension or demolition of any improvements on land. It includes dollars spent on: • Design and construction; • Tendering processes; • Project delivery; and • Contract administration. <b>Eligible Sobriginal Procurement</b> Eligible Sobriginal procurement Eligible Sobriginal strations. <b>Eligible Aboriginal Procurement</b> Eligible spend includes Aboriginal employment, engagement of Aboriginal-owned businesses, education and trai and engagement or consultation with Aboriginal organisations or businesses. <b>Accreditation organisations</b> (ii.e. Supply Nation, Social Traders and BuyAbility for example) provide advisory services to help projects identify opportunities for suitable spend and can provide data demonstrating social impa <b>Workforce targets</b> When developing targets related to workforce, the project should consider the local conditions as well as the project size. A demographic study will inform targets to be developed. Government sources such as the Australian Bureau of Statistics; the NSW Department of Communities and Justice; and the National Centre for Vocational Education p useful statistics and data to help develop project specific targets. When developing workforce targets the following principles are recommended: • Alow flexibility in the targets so that they can be adapted depending on the projec
		Exceptional Performance: Through the implementation of a social procurement- strategy, at least 4% of the building's total contract value- has been directed to generate employment opportunities for disadvantaged and under-represented groups.	<b>4</b> -		<ul> <li>Aboriginal and/or Torres Strait Islander businesses;</li> <li>Social enterprises; and/or</li> <li>Disability enterprises:</li> <li>Enterprise providers must be indendently certified by third party organisations such as Supply Nation, Social Traders, BuyAbility and government chamber of commerce.</li> </ul>						<ul> <li>Write the following list is not exhaustive, it can be used to guide the project:</li> <li>Aboriginal Employment Strategy;</li> <li>Apprentice Employment Network;</li> <li>Refugee Settlement Program; and</li> <li>National Association for Women in Construction.</li> <li>Working with the procurement team during the development of the Workforce Inclusion Plan is important, as integrinto the overall Procurement Strategy/Plan for the project is the mechanism by which workforce targets can be implemented.</li> <li>Incorporating targets into contracts</li> <li>To ensure the successful implementation of the strategy, the project should incorporate social procurement and/or workforce targets into key contracts. Contracts should state require data collection requirements, monitoring and reporting requirements, and a framework for incentivising the achievement of targets.</li> <li>Social procurement</li> <li>Social procurement</li> <li>Social Procurement Strategy/Plan. Other existing guidelines include:</li> <li>Social Procurement in NSW; and</li> <li>Insights into Social Procurement: From Policy to Practice.</li> <li>Early engagement with procurement professionals and identified supply chain are important success factors.</li> </ul>
	The building is welcoming to a diverse population and is 34.0	<b>Credit Achievement:</b> The building is designed and constructed to be inclusive a diverse range of people with different needs.	to 2 2	Site-wide	CREDIT ACHIEVEMENT To be compliant, the building's design and construction must be able to be navigated and enjoyed by stakeholders of diverse ages, genders, and abilities (for example physical, sight, sound, mind, spectrum). This applies to common spaces, bathroom facilities and amenities provided within the building. This must includ • Equal access to the building: Provide equitable, appealing, safe, and secure access in a manner that does not segregate or stigmatise users through all principal entrance points and main thoroughfares inside and outside the building; • Diverse wayfinding: Introduce visual, physical, olfactory, and auditory solutions to help individuals navigate the site in a safe and enjoyable manner; and • Inclusive spaces: Introduce internal and external spaces for a diverse range of users, including parents, family restrooms, emergency rooms, quiet rooms and social interaction rooms. These rooms must be accessible to all users.						GUIDANCE Ongoing management This credit is aimed at providing an accessible building beyond legislative requirements. In addition to the above, it is strongly recommended the following also occur: • Training for the project development team on universal design principles and project goals; • Training for the future building operations and facilities management team on the design features that enable inclusivity, how to maintain them properly, and how to respectfully work with all stakeholders to assist them on thei needs; and
2 soigh for inclusion	welcoming to their needs.	<b>Exceptional Performance:</b> Engagement with target groups has informed the inclusive design.	æ 1 -	Once-wide	social interaction rooms. These rooms must be accessible to all users. <b>EXCEPTIONAL PERFORMANCE</b> - The project team must consult with distinct community types to develop a needs analysis that will influence the project during the design phase. The consultation must be undertaken early in the design process and include a balanced cross-section of representation of the target group. The consultation must be considerate and relevant to the project. The consultation process must generate a report that is then used to influence the design of the project. As a result of the needs analysis, the building must show how it aligns with best practice guidelines, such as the Design for Dignity Guidelines: Principals for Beyr Compliance Accessibility in Urban Regeneration. Building solutions that are expected to be included would be assistive technologies, emotional health spaces, acoustic treatments, adaptive strategies, gender, size, and physical appropriate facilities.	<ul> <li>As build drawings showing inclusive spaces.</li> <li>Exceptional Performance         <ul> <li>Extract from consultation plan with disability community;</li> <li>Evidence, through as built drawings or photographs, of how the outcomes of the consultation have been incorporated into the buildings design; and</li> </ul> </li> </ul>					<ul> <li>Develop policies for the maintenance of the building to ensure a focus on inclusiveness. These policies should in staff training, cleaning procedures, rapid response for maintenance issues, and how to manage emergency situation (for example, how to support the evacuation of different types of disabled person(s) in a fast and safe manner).</li> <li>Needs analysis</li> <li>How the needs analysis is completed depends on the project and stakeholders – the end-use, types of users, who undertaking the analysis and why the analysis is being done. Project teams will need to describe the needs analysis and how this contributed to the project's design solutions. The needs analysis may be formal and extensive, or information of the project-specific circumstances.</li> </ul>
TOTAL			93								



lynation.org.au/ Local land onsultation processes of for projects based in these

Australian Bureau of cational Education provide

is important, as integration orce targets can be

hese policies should include nage emergency situations t and safe manner).

ise, types of users, who is scribe the needs analysis al and extensive, or informal

TOOL: GREE DOCUMENT	EN STAR BUIL REVISION: 2.0		ofer to the Groon Stor Build	PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MIN GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIM		
CATEGORY / CREDIT	OUTCOME	CREDIT CRITERIA	POINTS AVAILABLE POINTS TO TARGET Nominated Area	Requirements	Submission Content	Building owner       Building owner         Head Contractor       Froject Architect         Structural Consultant       Mechanical Consultant         Hydraulics/Fire Consultant       Mechanical Consultant         Hydraulics/Fire Consultant       Mechanical Contractor         BMS / Control Contractor       Electrical Contractor         Hydraulics/Fire Consultant       Mechanical Contractor         BMS / Contractor       Electrical Contractor         Itydraulics/Fire Consultant       Contractor         Mechanical Consultant       Electrical Contractor         Itydraulics/Fire Consultant       Contractor         Mechanical Consultant       Electrical Contractor         Itydraulics/Fire Consultant       Contractor         Itydraulics/Fire Consultant       Electrical Contractor         Itydraulics/Fire Consultant       Consultant         Itydraulics/Fire Consultant       Electrical Contractor         Itydraulics/Fire Consultant       Itydraulics/Fire Consultant         Itydraulics/Fire Consultant       Electrical Contractor         Itydraulics/Fire Consultant       Itydraulics/Fire Consultant         Itydraulics/Fire Consultant       Itydraulics/Fire Consultant         Itydraulics/Fire Consultant       Itydraulics/Fire Consultant         Itydraulics/Fire Consultant	
NATURE							
		Minimum Expectation: The building was not built on, or significantly impacted, site with a high ecological value.	a III III III III III III III III III I	MINIMUM EXPECTATION         The Minimum Expectation is met where:         • At the date of purchase or option contract, the building, infrastructure, or construction works do not clear:         • Old-growth forest,         • Price agricultural land,         • Any wetland listed as being of 'High National Importance',         • Aspects considered 'Matters of National Significance' listed under the Environmental Protection and Biodiversity Conservation Act (1999) regardless of whether they have been referred to the Foderal Environmental Minister for consideration and assessed as a 'controlled action' or not.         • If the project site is adjacent to the above, or within 100 meters, or the site contains the above and these are being protected, the construction and future operatio of the site takes measures to reduce their impact to the above as follows:         • Both the Waterways Protection Credit Achievement and the Credit Achievement for this credit is met, and         • The light pollution impacts are managed, and         • Where the site has been owned by the current owner for more than five years (from the project's Green Star registration date.         In cases where the site has been owned by the current owner for more than five years (from the project's Green Star registration date. <b>Hanging light pollution impacts Light pollution in pollution impacts Light pollution in pollution Light pollution in pollution Hans and gight pollution impacts Light pollution in to alphosing botios</b> <	ns Submissions for this credit must contain: Submission Summary via the online portal Evidence to support claims made in the submission Suggested evidence: Minimum Expectation	Development Approval documents. Wetland assessment and protection For the purposes of this credit, a wetland Deemed significant under a state or na A listed wetland under: — The Ramsar Convention on Wetlands — 'A Directory of Important Wetlands in A	d is considered of 'High National Importance' if it is: ational register; or s; or Australia'.
Impacts to Nature	Ecological value is conserved and protected.	35.0 Credit Achievement : • The building's design and construction conserves existing natural soil, hydrological flows and vegetation elements; and • If deemed necessary by an Ecologist, at least 50% of existing site with high biodiversity value is retained.	2 2	This covers all external lighting of a project. In addition to other types of external lighting, for the purposes of this credit, luminaires inside glazed atria and those on the uppermost (uncovered) deck of an outdoor car park are considered external. <b>Control of Upward Light Output Ratio (ULOR)</b> For this option, the project team must demonstrate that no external luminaire on the project has a ULOR that exceeds 5%, relative to its actual mounted orientation. Project teams must demonstrate that the ULOR provided or calculated in the documentation, is relevant to the as-installed orientation of the luminaire.	<ul> <li>Calculation Prois for all external lighting, showing that all grid points on the calculation plane return compliant Lux values.</li> <li>Excerpt from lighting control system, or similar, demonstrating automatic deactivation of lights, based on external lux levels, where deactivation is required to achieve compliance.</li> <li>If triggering the wetland requirements:         <ul> <li>Wetland Management Plan</li> <li>Evidence as per Waterway Protection credit.</li> </ul> </li> </ul>	x       x	external emergency lighting that only illuminates in the ev rom the requirements of this credit. Lighting related to othe ting of ATMs. grated into the general external lighting scheme must comp , lights that act as general lighting but have a battery pack to are must comply.
Riodiversity	The building's landscape	Credit Achievement: • The building's site includes an appropriate landscape area; • The landscaping includes a diversity of species and prioritises the use of climate-resilient and indigenous- plants; and • The project team develops a site-specific Biodiversity Management Plan and provides it to the building owner building owner representative.	2 0	CREDIT ACHIEVEMENT- Landscape area         At a minimum, external landscape in the building, whether horizontal or vertical must be provided at a ratio of either 15% of the site area or at a ratio of 1:500 of the GFA, whichever is larger. Vertical or horizontal landscapes are acceptable         Diversity of species         Landscape area         Reader than 60% of plants must be indigenous and the site must include at least one significant (nesting) tree or equivalent habitat provision per 500m² of landscaped area         No invasive species are allowed, as per the Australian Weeds Strategy 2017 to 2027         There are two pathways to demonstrate diversity in plant selection and climate resilience         Prescriptive pathway.         The landscaping must meet the following plant diversity targets:         • 10% plant species;         • 20% plant species; and         • 20% plant species;         • 20% plant family:         Performance pathway         An ecclogist must assess and verify that the choice of landscaping and biodiversity is diverse and resilient to climate change impacts,- thereby increasing the longevity of the landscape. An Ecclogist must area or and resilient to climate change impacts,- thereby increasing the longevity of the landscape. An Ecclogist must area qualified professional, such as a qualified ecologist or landscape	Submissions for this credit must contain:         Submission Summary via the online portal         - Evidence to support claims made in the submission         Suggested evidence:         Credit Achievement         - Site Plans marked up with landscaping;         - Arail Site Photographs marked up with landscaping;         - Biodiversity Management Plan; and         - If Ecologist appointed, confirmation of:         - No invasive species         - Diverse landscaping	planting/landscaping that can be counter external landscaping and has a stronger towards both credits provided the lands and no invasive species. The Connection to Nature credit encour Biodiversity Enhancement has a strong are mutually exclusive, and both can be <b>Relationship with Impacts to Nature</b> of In the Impacts to Nature credit, an ecolo When this is the case, 50% of the lands	Healthy category deals specifically with internal plants. The ed is an accessible green roof. Biodiversity Enhancement d r biodiversity focus. Should a green roof be provided, this of caping requirements are met: that is, diverse plant selection rages productive plants, which can be both native and non- biodiversity focus, it requires native plants. This does not r e satisfied through a wide selection of plants.

DOCUMENT	N STAR BUIL REVISION: 2.0 are provided as a gui		nall refer to the o	Green Star Build	20 AVON RD, PYMBLE NSW dings V1 for further details.	GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMU	IM 42 (5 ST.	AR WITH	7 BUFF	ER F	OINTS)
CATEGORY / CREDIT	OUTCOME	Ö       CREDIT CRITERIA	POINTS AVAILABLE	POINTS TO TARGET Nominated Area	Requirements	Submission Content	Building owner Head Contractor Project Architect	Structural Consultant Mechanical Consultant Electrical Consultant Hydraulics/Fire Consultant Mechanical Contractor BMS / Control Contractor	Hydraulics / Fire Contractor ESD Consultant Landscape Consultant / Contractor Ecologist	Acoustic Specialist Civil Engineer / Contractor Urban Planner	Guidance
NATURE											
		Minimum Expectation: The building was not built on, or significantly imp site with a high ecological value.	acted, a Nil	To Comply	MINIMUM EXPECTATION         The Minimum Expectation is met where:         • At the date of purchase or option contract, the building, infrastructure, or construction works do not clear:         • Old-growth forest,         • Prime agricultural land,         • Any wetland listed as being of High National Importance',         • Appects considered' Matters of National Significance' listed under the Environmental Protection and Biodiversity Conservation Act (1999) regardless of whether they have been referred to the Foderal Environmental Minister for consideration and assessed as a 'controlled action' or not.         • If the project site is adjacent to the above, or within 100 meters, or the site contains the above and these are being protected, the construction and future operation of the site takes measures to reduce their impact to the above as follows:         • Both the Waterways Protection Credit Achievement and the Credit Achievement for this credit is met, and         • The light pollution impacts are managed, and         • Where the site is next to a wetland (as above), by also putting in place Wetland Protection Measures.         The Minimum Expectation applies to the state of the site that existed at the date of site purchase or option contract (previous condition of the site.)         In cases where the site has been owned by the current owner for more than five years (from the project's Green Star registration date.         Managing light pollution impacts         Uppotention to angles ot the usate of the site that existed at least five (but not more than the years) prior to the project's Green Star registration d	ns					MINIMUM EXPECTATION         EPBC Act         Project teams can determine whether the project site is subject to approval under the EPBC Act         Development Approval documents.         Wetland assessment and protection         For the purposes of this credit, a wetland is considered of 'High National Importance' if it is:         • Deemed significant under a state or national register; or         • A listed wetland under:         - The Ramsar Convention on Wetlands; or         - 'A Directory of Important Wetlands in Australia'.         Where the project site does not impact on any wetlands of 'High National Importance', the projewith this aspect of the Minimum Expectation and no further action is required.         Light pollution
mpacts to Nature	Ecological value is conserved and protected.	35.0 Credit Achievement : • The building's design and construction conserve existing natural soil, hydrological flows and veget elements; and • If deemed necessary by an Ecologist, at least 5i existing site with high biodiversity value is retained	ation 2 1% of	2	Control of Upward Light Output Ratio (ULOR) For this option, the project team must demonstrate that no external luminaire on the project has a ULOR that exceeds 5%, relative to its actual mounted orientation. Project teams must demonstrate that the ULOR provided or calculated in the documentation, is relevant to the as-installed orientation of the luminaire.	<ul> <li>As Built drawings indicating the location of all external luminaires and showing the aiming point and mounting orientation of all external luminaires.</li> <li>Luminaire schedule for all external lighting, nominating the type, lighting distribution and quantity of each luminaire and including the relevant photometric data such as ULOR.</li> <li>Calculation Plots for all external lighting, showing that all grid points on the calculation plane return compliant Lux values.</li> <li>Excerpt from lighting control system, or similar, demonstrating automatic deactivation of lights, based on external lux levels, where deactivation is required to achieve compliance.</li> <li>If triggering the wetland requirements:</li> <li>Wetland Management Plan</li> <li>Evidence as per Waterway Protection credit.</li> </ul>				x X	Light pollution Exclusions Signage related to emergency exits and external emergency lighting that only illuminates in the emergency/power failure are excluded from the requirements of this credit. Lighting related to ot are also excluded, for example, the lighting of ATMs. External emergency lighting that is integrated into the general external lighting scheme must cor requirements of the credit. For example, lights that act as general lighting but have a battery pac also stay on in the event of a power failure must comply. Control of upward light output (ULOR) A luminaire with a ULOR as nominated in the manufacturer's data sheet, will have a different UL orientation of the luminaire is changed. If any external luminaire is mounted in an orientation ofth nominated by the manufacturer, the ULOR must be recalculated and provided by project teams. <b>Awnings</b> Awnings can be used as a means of achieving compliance with the 5% ULOR requirement whe showing the light output of the luminaire can be provided, and where the awning has the effect of output of the lamp above the horizontal. This requirement is not met where it is not clear if the ar- structure. <b>CREDIT ACHIEVEMENT</b> <b>Relationship to Nature Connectivity and Biodiversity Enhancement credits</b> Should 50% of the existing site be retained, this may be captured in both the Biodiversity Enhar Connectivity credits.
Riadivarsity	The building's landscape	Credit Achievement: • The building's site includes an appropriate land area; • The landscaping includes a diversity of species prioritises the use of climate-resilient and indigen plants; and • The project team develops a site-specific Biodiv Management Plan and provides it to the building building owner representative:	and- ous- 2 ersity-	θ	CREDIT ACHIEVEMENT         Landscape area         At a minimum, external landscape in the building, whether horizontal or vertical must be provided at a ratio of either 15% of the site area or at a ratio of 1:500 of the GFA, whichever is larger. Vertical or horizontal landscapes are acceptable.         Diversity of species         Landscape must be shown to be diverse and include multiple species/genus/etc         Greater than 60% of plants must be indigenous and the site must include at least one significant (nesting) tree or equivalent habitat provision per 500m² of landscaped area.         No invasive species are allowed, as per the Australian Weeds Strategy-2017-to-2027         There are two pathways to demonstrate diversity in plant selection and climate resilience         Prescriptive pathway         The landscaping must meet the following plant diversity targets:         + 10% plant species;         + 20% plant family:         Performance pathway         An ecologist must assess and verify that the choice of landscaping and biodiversity is diverse and resilient to climate change impacts, thereby increasing the longewity of the landscape. An Ecologist must provide this narrative         Biodiversity management plan.         A suitably qualified professional, such as a qualified ecologist or landscape architect, must prepare the Plan         The plan must outline key actions that need to be undertaken in order to maintain the ecologieal integrity of biodiversity on the site, whether this is existing or that	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Credit Achievement         • Site Plans marked up with landscaping;         • Aerial Site Photographs marked up with landscaping;         • Biodiversity Management Plan; and         • If Ecologist appointed, confirmation of:         No invaries condex					GUIDANCE         Relationship with Connection to Nature credit         The Connection to Nature credit in the Healthy category deals specifically with internal plants. The planting/landscaping that can be counted is an accessible green roof. Biodiversity Enhancemen external landscaping and has a stronger biodiversity focus. Should a green roof be provided, this towards both credits provided the landscaping requirements are met: that is, diverse plant select and no invasive species.         The Connection to Nature credit encourages productive plants, which can be both native and no Biodiversity Enhancement has a strong biodiversity focus, it requires native plants. This does not are mutually exclusive, and both can be satisfied through a wide selection of plants.         Relationship with Impacts to Nature credit         In the Impacts to Nature credit, an ecologist determines whether existing landscaping is of high I When this is the case, 50% of the landscaping area needs to be retained. When this occurs, it c meeting compliance with this credit. The spaces can be counted in both credits and no further landscaping area needs to be retained.

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uilding owner	ead Contractor	roject Architect	tructural Consultant	echanical Consultant	lectrical Consultant	ydraulics/Fire Consultant	echanical Contractor	MS / Control Contractor	lectrical Contractor	ydraulics / Fire Contractor		andscape Consultant / Contractor	coustic Specialist	ivil Engineer / Contractor	<u></u>	uantity Surveyor	Guidar



# Act by referring to their oject is deemed to comply ne event of an o other safety requirements comply with the pack to ensure that they ULOR when the mounting other than the one ms. here a section drawing ct of blocking 95% of the e awning is a permanent hancement and Nature

s. The only external nent deals specifically with , this can contribute election, resilient plants,

non-native. Because s not mean that the credits

igh biodiversity value. , it can contribute towards er landscaping is required

TOOL: GREE	R SCORECAR EN STAR BUIL REVISION: 2.0	DING				PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 3 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42		RW	TH 7	BUF	FER F	POINTS)
	v are provided as a gu		where required the project team shall refer to	TARGET	een Star Build	ings V1 for further details.			Int Sea Sultant	onsible	atty ht / Contractor	ractor	
CREDIT	OUTCOME	COD		POINTS TO POINTS TO	Nominated	Requirements	Submission Content	Building owner Head Contractor Project Architect Structural Consultan	Mechanical Consulta   Electrical Consultant   Hydraulics/Fire Cons	Mechanical Contract BMS / Control Contra Electrical Contractor	Hydraulics / Fire Con ESD Consultant Landscape Consulta	Ecologist Acoustic Specialist Civil Engineer / Cont Urban Planner	Guantity Surveyor
Enhancement	enhances the biodiversity of the site	- <b>36.0</b>	Exceptional Performance: • A greater area of landscaping is provided; and • The landscaping includes critically endangered and/or- endangered plant species native to the bioregion.	2 0	Site-wide	sreated as part of the development. The following key requirements must be outlined in the biodiversity-management plan: - The vision and objectives for the site's biodiversity values; - Roles and responsibilities in the implementation of the Plan; - A description of the biodiversity baseline on-site; - How success and implementation will be measured; - How impacts or threats to biodiversity management Plan where necessary; The Plan must be included as part of the project's handover <b>EXCEPTIONAL PERFORMANCE</b> <b>Landscape area</b> As a minimum, external landscape in the building, whether horizontal or vertical must be provided at a ratio of either 30% of the site area or at a ratio of 1:300 of- GFA, whichever is larger. Vertical or horizontal landscapes are acceptable <b>Diversity of species</b> Landscape must be shown to be diverse and include multiple species/genus/etc. An ecologist must review, assess and verify how the choice of landscaping and biodiversity is diverse and resilient to olimate change impacts, thereby increasing the longsexity of the landscape. Greater than 80% of plants must be indigenous and the site must include at least one significant (nesting) tree or equivalent habitat provision per 250m <sup>2</sup> of- landscape area. No invasive species are allowed, as per the Australian Weeds Strategy 2017 to 2027 The site must preserve, restore and/or support vulnerable ecosystem through planting critically endangered and/or endangered plant species which are native to the bioregion		x			X	x	for those spaces. The project team must still demonstrate that the landscaping area requirements satisfied. <b>Relationship with Nature Connectivity Credit</b> One pathway under the Nature Connectivity credit is to incorporate landscaping for 25% of the ex- requirement for this landscaping to be contiguous. Should this credit be targeted, the landscaping in the Biodiversity Enhancement credit provided the project team can demonstrate the landscaping credit: that is, diverse plant selection, resilient plants, and no invasive species. <b>Indigenous plants</b> An indigenous plant is one that is found or occurs in a local area or region. A native plant can be of Australia, whereas an indigenous plant is found in a specific geographic location, such as a city of area. <b>Landscaping selection</b> The following resources provide information for the selection of landscaping in line with the credit • City of Sydney, Urban Forest Strategy, 2013; and • City of Melbourne, Urban Forest Diversity Guidelines, 2011
<del>Nature Connectivity</del>	Wildlife movement is- facilitated within and- adjacent to the site	<del>37.0</del>	<b>Credit Achievement:</b> The site must be built to encourage species connectivity through the site, and to adjacent sites. If the project sits within a blue or green grid strategy it must contribute to the goals of the strategy.	<del>2</del> 0	<del>Site-wide</del>	<ul> <li>CREDIT ACHIEVEMENT-</li> <li>The site may include any of the following strategies:-</li> <li>Landscaping: Where connectivity is being achieved through landscaping, this must be contiguous with existing, restored and new habitats. As a minimum requirement for habitat connectedness, the conservation area must make up at least 25% of the total external area within the building's site boundary. To be eligible, this must be at least 182m<sup>2</sup>; or</li> <li>Infrastructure: Design features such as a canopy bridge, wildlife tunnels, green roofs, amphibian tunnels and green infrastructure are used to connect nature on site to adjacent natural areas, which are either existing, restored or new.</li> <li>For both pathways, the project is to provide a narrative on how the pathway would support the targeted wildlife species</li> <li>In addition to the above, if the project sits within a blue or green grid strategy, the project team must demonstrate how its design and landscaping contribute to the goals of the strategy</li> </ul>	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         • Site Plans marked up with landscaping, showing it is contiguous;         • Aerial Site Photographs marked up with landscaping, showing it is contiguous;         • Report on the types of infrastructure implemented;         • A reporting establishing the local species identified that a habitat would need to be provided for;         • Report on how designs support targeted wildlife species; and         • Drawings detailing that habitat design.	×			<b>X</b>	×	Building location         It is noted that for buildings located in the CBD the infrastructure pathway may be difficulty to implicement of the encouraged to meet this criterion through the landscaping pathway         Green and blue grids         Projects should contact their local municipality to determine whether the project sits within a wider strategy         Blue grid         The blue grid is defined as the hydrological grid of a district. The Blue Grid offers an opportunity to as an interconnected network and improve the water and ecological quality of waterways along the hydrological system         As per Sydney Green Grid: Spatial Framework and Project Opportunities, considerations for Blue         • Permanent Water Bodies;         • Wetlands:
Nature Stewardship	Biodiversity is restored- beyond the building site	38.0	Credit Achievement: The building owner, as part of the project's development,- undertakes activities that protects or restores biodiversity at scale beyond the development's boundary.	2 0	Site-wide	CREDIT ACHIEVEMENT.         To be digible for the Nature Stewardship credit, the project must meet the Credit Achievement in the Impacts to Nature credit         Area of restoration or protection activities.         Location of restoration or protection activities.         Land for restoration must be equivalent to the total GFA of the development, or site area, whichever is greater         Location of restoration or protection activities.         Land for restoration must be in Australia and restored to equivalent ecological value of the site before any development boundary (e.g a university campus)         A qualified Ecologist must confirm that the ecological value is equivalent.         There are situations where land being claimed for restoration and protection activities is not being double counted for multiple buildings or other activities         The Cortific Assessor reserves the right to query for additional information during assessment         Activities to protect or restore         Activities to protect or restore         Anti- asses, for the activities an organisation that restores area on their behaff.         In a casses, for the activities above, the project team must show how the action is additional. That is, the action goes beyond any legislated requirements and how its restoration area area area the sine of the activities         The project teams are neorourged to contact CBCA to selermine.         The cortific or wore supports on that restores area area on their behaff.         In a casses, for the activities and as beineseqoportunitit	Submissions for this credit must contain:-         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:-         • Offsite Restoration Management Plan;         • Evidence of site purchase;         • Evidence of formal-partnership;         • Overview of restoration activities; and         • Evidence of funding provisions:	*			<b>X</b>	×	<ul> <li>Offsets.</li> <li>This credit does not replace nor reward formal regulated offset requirements as covered by the C Environmental Protection and Biodiversity Conservation Act 1999 environmental offsets policy, o territory offset regulations</li> <li>Development boundary.</li> <li>Refers to the boundary that is being developed as part of the project's development approval. Thi or buildings, landscaping, car parking, ancillary infrastructure, or even other buildings within a br Off-site vs. on-site restoration.</li> <li>Actions to enhance biodiversity within the site are addressed by other credits in this category.</li> <li>As the aim of this project is to increase biodiversity in areas outside the site as far as practicable, the site, or adjacent buildings that are owned or developed by the same entity, are unlikely to be credit. There may be exceptions, for example where the enhancement is occurring in another are campus (e.g a waterway restoration.</li> <li>activity). However, in such a situation, the Certified Assessor would expect to see how the enhance building seeking certification, how it is being funded, and how it is additional – it wouldn't have has <b>Restoration activities</b>.</li> <li>The range of possible offsite restoration actions may include the following::</li> <li>Habitat improvement, restoration or expansion;</li> <li>Direct threat mitigation;</li> <li>Habitation of artificial structures or habitats;</li> <li>Ecological recoyling or re-use of natural materials;</li> <li>Reintroduction of species or natural processes; and</li> <li>Monitoring and benchmarking;</li> <li>Daven example organisations that may be used for the second pathway.</li> <li>Biodiversity Conservation Trust of NSW;</li> <li>Bush Heritage Australia;</li> <li>Aucensland Trust for Nature;</li> <li>Austine Foundation SA;</li> <li>South Endeavour Trust;</li> <li>Tasmanian-Land Conservancy; and</li> <li>The Nature Conservancy - Australia Program.</li> <li>Other organisations may be used, provided their activities are veri</li></ul>
Waterway Protection	<b>h</b> Local waterways are- protected, and the impacts - flooding and drought are- reduced.	f 39.0	Credit Achievement:         The building demonstrates an annual average flow-reduction (ML/yr) of 40% compared to pre-development-levels and meets specified pollutants targets         Performance:         The building demonstrates an annual average flow-reduction (ML/yr) of 80% compared to pre-development-levels and meets specified pollutants targets	2 θ	Site-wide	CREDIT ACHIEVEMENT:         Runoff volume         The development must demonstrate an annual average flow reduction (ML/yr) of 40%. (Note: Reduction in average annual stormwater discharge refers to the: average annual reduction in stormwater volume discharged from the development, with treatment, compared with the stormwater volume that would be discharged without treatment)         Water pollution         All runoff discharged from site meets specified pollution reduction targets listed in the table below.         Pollutant       Reduction Target (% of the typical urban annual load).         Total Suspended Solids (TSS)       86%       90%.         Greati Achievement       Exceptional Performance         Total Suspended Solids (TSS)       86%       90%.         Greati Achievement       90%.       60%.         Total Suspended Solids (TSS)       86%       90%.         Greati Achievement       90%.       60%.         Total Suspended Solids (TSS)       65%.       70%.         Environmental Management       Minimise the risk of chemical pollutants and other toxicants entering the stormwater system.       including to separately divert rainfall into the stormwater system.         Alf a site has more than 200% of 00% of	Submissions for this credit must contain:         • Submission Summary via the online portal         • Evidence to support claims made in the submission         Suggested evidence:         Average flow reduction-         Calculation/Modelling Report by a suitably qualified professional. The report should describe::         • Civil/Hydraulics drawings showing the stormwater collection, storage and treatment facilities and detailing their functional elements;         • Hydraulics drawings showing all the capture, storage, piping and discharge route; and         • Site plans showing the total areas of uncovered areas where vehicles are likely to transit and/or park (e.g. roads, loading docks, refuelling bays, and-carparking, etc).         Pollution Targets-         to         to         verified performance certification for each manufactured stormwater treatment device, proving its ability to achieve the pollution reduction targets.	x	x		x	x	<ul> <li>On-site detention (OSU)</li> <li>Some sites local drainage authorities may require limitation of post-development peak event disch This is commonly called On Site Detention (OSD). OSD is not an integrated water management is purposes, but relevant local requirements should also be integrated and included in the design ar documentation for consistency and buildability.</li> <li><b>Typical urban annual load</b></li> <li>Typical urban annual load reductions can be estimated using continuous simulation modelling su SWMM, XPSWMM, or InSite. Where available, relevant guideline values for pollutant concentration and use and surface type should be used. In areas where there are no specific guidelines referent sources such as Australian Runoff Quality (ARQ, 2006).</li> <li>Water sensitive urban design</li> <li>Water-sensitive urban design (WSUD) is a land planning and engineering design approach which water cycle, including stormwater, groundwater and wastewater management and water supply, it minimise environmental degradation and improve aesthetic and recreational appeal.</li> <li>Pre-determined infrastructure</li> <li>It is noted that some local governments may provide pre-determined infrastructure solutions that a comply with the aim of this credit criterion. If this is the case the project team should submit a Tech have this approach approved.</li> <li>Climate scenarios</li> <li>If the project is targeting the Climate Change Resilience credit, the Risk Assessment included in the should be used to determine the appropriate climate change scenario. If the project is not targeting resilience credit, the Risk Assessment included in the should be used to determine the appropriate climate change action and and intervention offsite reductions.</li> <li>Reduction in average annual stormwater discharge refers to the average annual reduction in stor discharge from the development, with treatment, compared with the stormwater volume that wou without treatment.</li> <li>The v</li></ul>
TOTAL			1	4 2									



## ements of this credit are

the external site area. It is a scaping area may be claimed dscaping requirements of the

an be one that is found in a city or a local government

credit requirements:

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or Blue Grids include:

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a<mark>l. This includes the buildir</mark> in a broader precinct.

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led in this credit submission argeting the Climate change

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in stormwater volume at would be discharged n, harvesting and retention,

TOOL: GRE	AR SCORECARI EN STAR BUILI REVISION: 2.0	DINGS V1			PROJECT ADDRESS: 20 AVON RD, PYMBLE NSW	GREEN STAR MINIMUM SCORE REQUIRED FOR 5 STAR - MINIMUM 35 GREEN STAR SCORES TO BE TARGETED FOR 5 STAR: MINIMUM 42 (5 STAR WITH 7 BUFFER POINTS)								
<i>Note: details belo</i> CATEGORY / CREDIT	w are provided as a gui	de only, where required the project team shall refe	er to the	POINTS TO TARGET	ings V1 for further details.	Submission Content	Building owner Head Contractor Project Architect Structural Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Mechanical Consultant Telectrical Consultant Mechanical Consultant Mechanical Consultant Consultant Mechanical Consultant Mechanical Consultant (Consultant Consultant Cons	Orban Planner Quantity Surveyor Guiqauce						
Market- Transformation	Celebrates initiatives or- outcomes that are deemed- new and break barriers, and- in turn inspire others to- follow	<ul> <li>40.0</li> <li>40.0<td>up to 5</td><td></td><td>CREDIT ACHIEVEMENT- Projects can make up to five claims for this credit. Each claim is only worth one (1) point. To claim points, the project team must show that an initiative is innovative by demonstrating that the technology or process is not commonly used within Australia's building industry; or globally, depending on the context of the innovation claimed</td><td>Submissions for this credit must contain: - Submission Summary via the online portal - Evidence to support claims made in the submission Suggested evidence: - Description of the claim; - Description of how and why the claim is considered leading practice; - Overview of how the claim is aligned with the GBCA's scoring metrics; and - Alternate documentation can also be used by project teams to demonstrate compliance:</td><td></td><td><ul> <li>Leading technology or process</li> <li>Leadership points in this pathway are more likely to be awarded for projects that:</li> <li>Employ technologies or strategies that achieve an outcome in Green Star through significant improvement of the compared against best practice technologies;</li> <li>Employ technologies or strategies that are new or adopted from other industries that achieve the moutcome;</li> <li>The claim is replicable for other buildings to adopt; and</li> <li>Can clearly justify alignment with the GBCA's scoring metrics:</li> <li>Control of outcome: the initiative delivers a guaranteed outcome. That is, it is not process-related</li> <li>Length of impact: the initiative delivers long-lasting impacts</li> <li>Scale of impact: the scale of impact is significant. For example, the outcome may satisfy multiple to Development Goals</li> <li>Transformation potential: the initiative has the potential to transform an industry or sector.</li> <li>Value generation: the initiative can deliver benefits to both stakeholders (e.g. building owner or oc the general public.</li> <li>Assessing market transformation</li> <li>Leadership points are assessed and awarded at the discretion of the Certified Assessor(s). In review the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as compared to other of the Certified Assessor(s) will consider the relative benefits and improvement as com</li></ul></td></li></ul>	up to 5		CREDIT ACHIEVEMENT- Projects can make up to five claims for this credit. Each claim is only worth one (1) point. 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Leadership Challenges	Promotes achievements that are considered leading practice in Australia.	41.0 <b>Credit Achievement:</b> The project meets a Leadership Challenge developed by the GBCA	Unlimited	1 TBC	CREDIT ACHIEVEMENT Projects teams can target as many Leadership Challenges as they wish. Leadership Challenges will be uploaded to the GBCA website as they are developed. All criteria as listed on the Leadership Challenge must be met to claim reward.	As per Leadership Challenge.	x x x x x x x x x x x x x x x x x x x							
TOTAL		):		42 POINTS										

MINIMUM TOTAL POINTS REQUIRED FOR 5 STAR: MINIMUM TOTAL POINTS TO TARGET FOR 5 STAR:

- Legal compliance The building is compliant with legislation (National Construction Code 2019 or later)
- Good Practice The building meets the Minimum Expectations of good practice energy and water efficient, good indoor environment quality, and built to operate well.
- 4 Star reflects a Best Practice environmental performer. It builds on the Minimum Expectations to deliver a building that is either climate positive or a higher performer in energy, water, and health related issues (15 out of 100 points)
- 5 Star demonstrates Australian Excellence by being a high environmental performer that addresses social issues relevant to the building owner (35 out of 100 points)



6 Star – showcases World Leadership. It has been built to be a highly efficient building fully powered by renewables that
addresses a significant number of environmental and social issues, and contributes to the community (70 out of 100 points)

35 POINTS	
42 POINTS	5 STAR WITH 7 BU





BUFFER POINTS

In reviewing the submission, to other Green Star credits.