

If a building becomes architecture, then it is art. Clearly, if a building is not functionally and technically in order, then it isn't architecture either – it's just a building.  
**Arne Jacobsen**

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**STEENSEN VARMING**

Att. Jane Fielding

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**Re: Westmead Hospital Car Park –Mechanical & Vertical Transportation Design Statement**

Sydney, October 26<sup>th</sup>, 2015

**Joe Martin**  
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**Mechanical Systems:**

The Mechanical systems to the Westmead Hospital Car Park development shall consist of the following:

1. Levels 1-7 of the car park shall be naturally ventilated in addition to the front Northern area of the ground floor in accordance with AS1668.4 2012 and the given requirements for a naturally ventilated Car Park.
2. Mechanically ventilated South Western corner of the Car Park ground floor in accordance with AS1668.2 2012.
3. Mechanically ventilated fire services plant rooms to meet code requirements for plant rooms and diesel engine operated pumps.
4. Cooling provision to individual comms rooms through heat pump systems located locally to the each comms room.
5. BMS monitoring of the ventilation, fire services equipment and the lifts.

All Mechanical Aspects of the Car Park services shall be designed in accordance with the Building Code of Australia (BCA) 2015.

**Vertical Transportation:**

The scope of the vertical Transportation services will be –

1. Lifts will be provided, each lift serving all levels of the car park
2. The lifts will be motor room less type
3. The lifts will be provided to meet the disabled access code requirements

The Australian Standards that have been applied to the vertical transportation systems are –

- AS1735.2
- AS1735.12

Kind regards,

**Joe Martin**  
Mechanical Engineer