



To	East Walker 88 Development Pty Ltd	Page	1 of 1
Project Name/Number	177 Walker St North Sydney		
From	JSBC Consulting		
File/Ref No.	SL-03	Date	19/03/2026

Structural Letter – Interruption of Concrete Pours

JSBC Consulting, as the structural engineering consultant on the project at 177 Walker St North Sydney, is carrying out the design and detailing of the post-tensioned and reinforced concrete structural elements.

All structural elements are designed and detailed with pour joints at specific locations. Interruption of slab pours results in additional cold joints and potential issues, including but not limited to the below:

- Compromised structural integrity of the building due to poor concrete quality where cold joints have not been formed up correctly or intentionally
- Compromised strength of slabs if unplanned cold joints are located at critical shear regions, with risk of catastrophic failure in shear and punching shear for transfer slabs
- Compromised strength of steel reinforcement when unplanned cold joints are located at the middle of lap splices rather than with lap splices located outside the joint
- Compromised strength of columns due to weaker concrete strength at unplanned cold joints, resulting in significantly reduced load-bearing capacity and risk of catastrophic failure under vertical loading
- Compromised strength of shear walls due to weaker concrete strength at unplanned cold joints, resulting in significantly reduced lateral load-resistance of the structure with risk of catastrophic failure under lateral loading such as earthquake or wind
- Increased number of weak points with regards to waterproofing, in particular external joints, joints beneath landscaping or joints located in wet areas
- Increased risk of cracking in concrete elements due to reduced bond to previous pours
- Post-tension slabs cannot be stopped mid pour as pre-stressing tendons are required to be stressed at specific durations after concrete has set and for an entire pour at once. Correct stressing of tendons is impossible if different zones of the same pour have set at different times (e.g. a pour has been stopped and resumed on the following day)
- Rectification of unplanned cold joints is generally unsightly for any concrete elements visible on the façade

Details

Name: Joe Salhani

Qualifications: BE (Civil) (Hons); DipSe; CPEng, NER, MIEAust

Joe Salhani
Director
For and on behalf of JSBC Consulting