





SmartJoist Supporting Offset Load Bearing Wall



SmartJoist Supporting Offset Load Bearing Wall





Load Bearing Cantilevered SmartJoist





Load Bearing Cantilevered SmartJoist



Non-Load Bearing Cantilevered SmartJoist



C1







SmartJoist To Timber Beam



SmartJoist To Timber Beam



SmartJoist To Steel With Top-Mount Hanger







SJ To Both Sides of PFC





SmartJoist To Steel With Top-Mount Hanger & Tie-Down Strap



SmartJoist To Steel With Face-Mount Hanger



SmartJoist To Steel Without Hanger







SmartJoist To Brick Wall



SMART FRAME [®] SMART ENGINEERED SOLUTIONS

SmartJoist To SmartJoist



SmartJoist Balcony/Wet Area Setdown







LVL To SmartJoist



SmartJoist Supporting External Load Bearing Wall





SmartJoist Supporting Offset Load Bearing Wall







SmartRim End Blocking Solid Timber End Blocking



SmartJoist Blocking (End/Intermediate)



SmartJoist/SmartRim Blocking Under Concentrated Load



Penetration In SmartJoist/SmartRim Blocking



For multiple holes, the clear spacing between hoels shall be at



 \succ

>

Web-Stiffener On SJ **Bevel Cut On SJ**



SmartJoist Brick-Ledge Cantilever









Protectadeck





Joist Parallel To Upper Bracing Wall



For solid timber joist

refer to Table 8.22(e

in AS1684.2

Joist Parallel To Upper Bracing Wall



Joist Perp To Upper Bracing Wall



Joist Parallel To Bottom Bracing Wall





Multiple Member Lamination





Beam hanger as p	er	3	·~	membrane over s	adhesive betwee
eng specification	End disc.	and a second sec	A	Res distance Proof Barger No. of Screws Table 3 Citizance Table 3 Citizance Table 2 Support	3 A embers and of elastomeric dhesive between
OP & SIDE LOADE	D BEAM		Floo	or dead load = 125 kg/m2 . Fi	oor live load = 2 kPa
Section Width	Screw Size & Length	No. Of Screw Rows (Both Sides)	Spacing	Max. Joist Span Supported	i By Outer Member
2/35 & 3/35	No.10 x 65	2 or 3*	200mm	4500mm	
2/42 & 3/42	No.12 x 75	2 or 3*	200mm	5900mm	
2/45 & 3/45	No.12 x 90	2 or 3*	200mm	6400mm	
2/58 & 3/58	No.14 x 100	2 or 3*	200mm	7100mm	
2/65 & 3/65	No.14 x 125	2 or 3*	300mm	6000mm	
Beam depths in e	xcess of 300m	m, use 3 rows of scr	ews		
able 2 - Min. Ec	ige & End D	istance	Table 3	3 - No. of Extra Screws	
				A second seco	

Type17	Min. Edge	Min. End	Min. Screw Distance	Beam	Number of Type17 Screws Required			
Screw Size	Distance	Distance	(Across The Grain)	Depth	At Support	At either side of the		
No. 10	30mm	50mm	20mm	(mm)		supported beam		
No. 12	35mm	60mm	25mm	90 to 240	3	3		
No. 14	40mm	70mm	30mm	> 240mm	4	4		
Multiple Member Lamination Using Screws								
				LB3				

Multiple SmartJoist Lamination





Framing Bracket, Pryda JHHS & Multigrip Connectors



MiTek SPH, Dunning QSPH & Pryda JHHS Split Hanger





LVSIA & LVSIA300 Bracket (Horizontal Application Supporting SmartJoist)



LVSIA & LVSIA300 Bracket (Horizontal Application Supporting Solid Timber)



LVSIA & LVSIA300 Bracket (Vertical Application Supporting Solid Timber)





Pair of EA Brackets With M12 Hex-Head Bolts



Single EA Bracket With M12 Hex-Head Bolts



Pair of EA Brackets With M16 Hex-Head Bolts









al flooring

H3 Deck Ledger To Un-treated Frame



MiTek/Pryda Steel Anti-Crush Plate



Charbeam Between Party Wall



SmartJoist Bearing



SmartJoist Floor System - General Installation Details



SmartJoist Floor System - General Installation Details





 $\mathbf{\Lambda}$ /!\ SAFETY WARNING JOISTS ARE UNSTABLE UNTIL BRACED LATERALLY

Do not allow workers or loads on SmartJoists until all blockings, hangers, smartrims, nailing and temporary bracings are installed as per the SmartJoist installation guide.

Serious accidents or injury can result from failure to follow these guidelines.

Waste outlet locations & dimensions on Tilling's layout are indicative only, please refer to the architecture drawing for the exact locations.



It is the responsibility of the installer to position joists away from flooring plumbing penetration.



Tie-Down Details







SD8



SMARTFRAME[®] SMART ENGINEERED SOLUTIONS