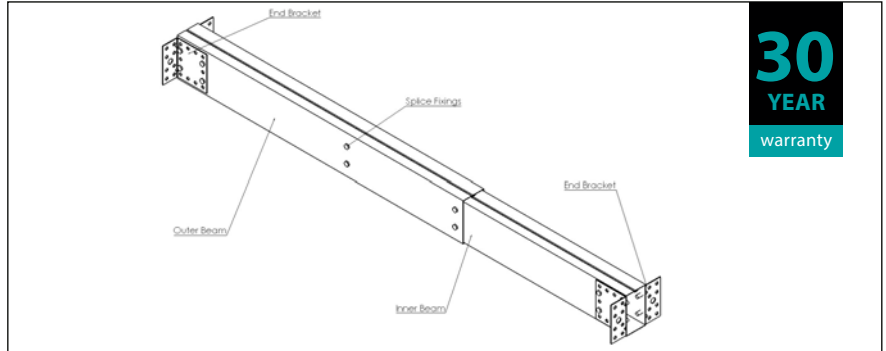
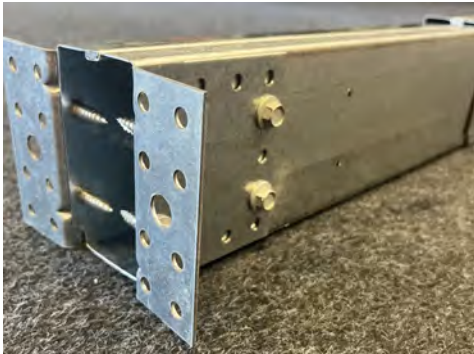


RAPID BEAM

Bridging Beam



30
YEAR
warranty



PRODUCT SUMMARY

The Rapid Beam makes bridging details for non-structural restraints such as suspended ceilings and HVAC systems efficient and easy to install. The Beams are rated and design capacities have been tested in accordance with AS/NZS 1170.0.

Design capacities for the adjustable beam product range:

Standard lap 1200 Beam (Max. span = 1800mm)

Heavy lap 1500mm Beam (Max. span = 2400mm)

Patent Pending 774578.

RAPID BEAM

Bridging Beam

PRODUCT SPECIFICATIONS

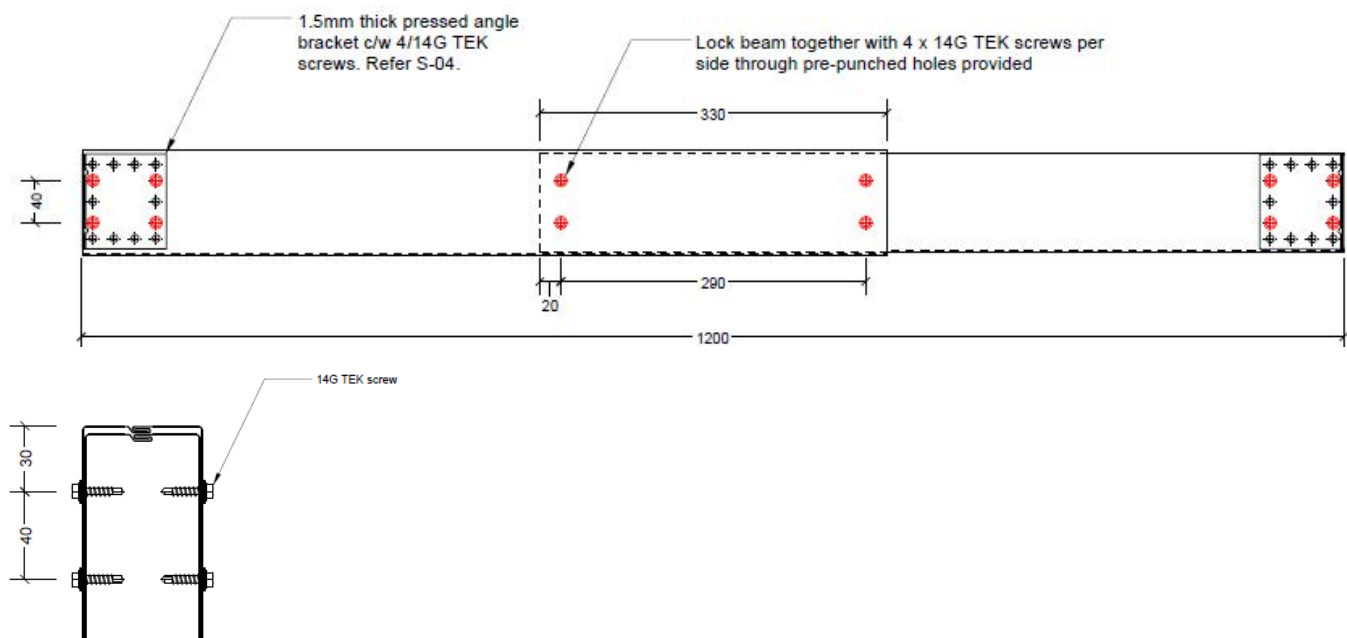
Size	Length Range	Section Length	Large Depth (1)	Large Depth (2)	Small Depth (1)	Small Depth (2)	Overlap at max. span	Fastener Spacing	Fastener Edge Distance
Standard lap	1.2-1.8m	1105mm	156.5mm	155mm	150.5mm	149mm	410mm	375mm	17.5mm
Heavy lap	1.5-2.4m	1405mm	156.5mm	155mm	150.5mm	149mm	2000mm	600mm	17.5mm

DESIGN PROPERTIES

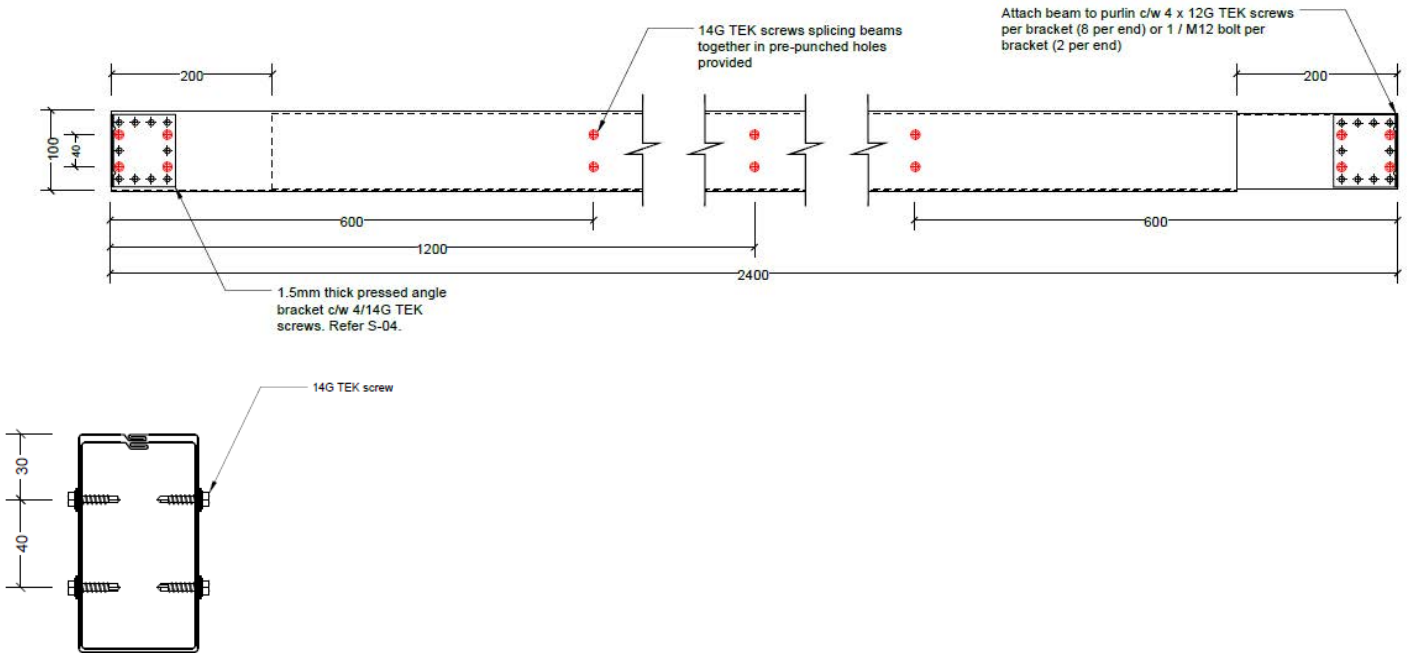
Property	Label	Standard	Heavy	Units
Nominal Beam Depth		150	150	mm
Length Range	-	1.2-1.8	1.5-2.4	m
Steel Grade	-	G550	G550	-
Beam Properties				
Effective 2nd Moment of Area (Major)	leffx	0.181x10 ⁻⁶	0.448x10 ⁻⁶	mm ⁴
Effective 2nd Moment of Area (Minor)	leffy	0.048x10 ⁻⁶	N/A	mm ⁴
Beam Moment Capacity (Major)	ϕMbx	1.39	1.86	kNm
Beam Moment Capacity (Minor)	ϕMby	0.72	N/A	kNm

- Connections between the adjustable beam end bracket and the supporting structure are to be checked separately (by others).
- Recommended maximum deflection limit = Span/250
- Each lap type requires 24 x 14G TEK screws through pre-punched holes provided
- Both standard and heavy lap beams feature an overall thickness of 55mm

Screw patterns and dimensions standard lap:



Screw pattern and dimensions for heavy lap:



BEAM CAPACITIES ABOUT MAJOR AXIS (x-x) - STANDARD LAP (REFER S01)

Span L	Maximum Load F_{MAX}	Maximum deflection (Span/250) δ_{UDL}	Maximum Load P_{MAX}	Maximum deflection (Span/250) δ_{PL}
1200 mm	786 kg*	4.8 mm	472 kg	4.6 mm
1800 mm	348 kg*	7.2 mm	255 kg*	7.2 mm

* Limited by beam deflection

BEAM CAPACITIES ABOUT MINOR AXIS (y-y) - STANDARD LAP (REFER S01)

Span L	Maximum Load F_{MAX}	Maximum deflection (Span/250) δ_{UDL}	Maximum Load P_{MAX}	Maximum deflection (Span/250) δ_{PL}
1200 mm	208 kg*	4.8 mm	130 kg*	4.8 mm
1800 mm	92 kg*	7.2 mm	58 kg*	7.2 mm

* Limited by beam deflection

BEAM CAPACITIES ABOUT MAJOR AXIS (x-x) - HEAVY DUTY LAP (REFER S02)

Span L	Maximum Load F_{MAX}	Maximum deflection (Span/250) δ_{UDL}	Maximum Load P_{MAX}	Maximum deflection (Span/250) δ_{PL}
1800 mm	838 kg	7.0 mm	473 kg	5.4 mm
2400 mm	486 kg*	9.6 mm	303 kg*	9.6 mm

* Limited by beam deflection