



STEELHAUS

Creative | Strong | Cost Effective

EZYJOIST™

STEEL FLOOR JOIST SYSTEM



LONGER SPANS
LIGHTER WEIGHT
FASTER INSTALL

Introducing EZYJOIST[®] a New Zealand made and manufactured, engineered Floor Joist for use in both residential and commercial construction.

The future of pre planned construction has arrived and Steelhaus is at the forefront of this industry. We have been manufacturing in New Zealand for over 6 years for local conditions and specifiers who trust our pre planned, pre punched and pre assembled frames and joists

EZYJOIST BENEFITS:

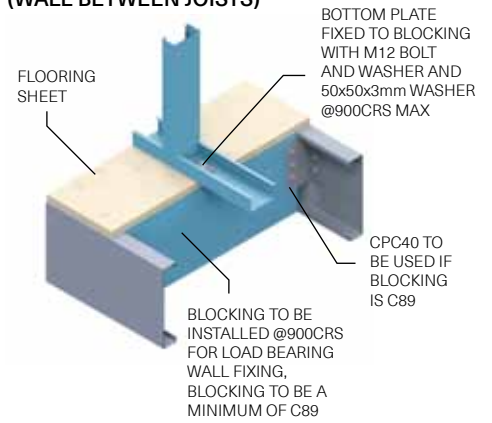
- Spans of 7.25m at 1.5KPa and 6.1m at 5KPa floor loads. Our system allows you to maximise the open plan spaces within the building and can reduce the number of pile supports required for the sub floor.
- With 4 different EZYJOIST sizes to suit your needs, they are light weight and easy to install.
- Supplied cut to length ready to install, with Joist locating Tabs at the required spacing, pre punched 155mm diameter service penetrations, bolt holes for back to back fixing. Pre planning reduces labour hours and extra bracketry required on site.
- Easily connect to timber, concrete and steel wall structures
- Compatible with all floor board types including:
 - Particle board,
 - Magnesium sulfide board,
 - Fibre cement board.
 - Boron treated plywood, strand floor & OSB.
- We recommend Maglok Dragonboard,

JH Secura and Laminex Strandfloor H3.1 as they can be used in all wet and dry areas.

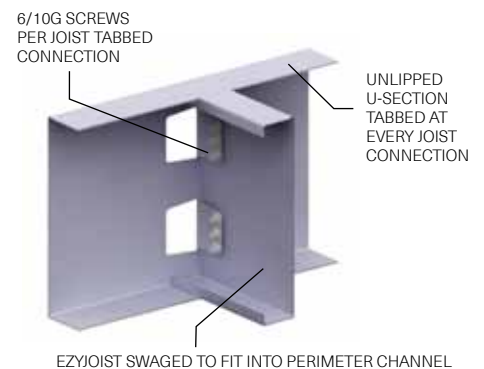
- These can all be fixed directly using the glue & screw method.
- We do not recommend CCA treated plywood flooring as copper & arsenic can react with the galv coating.
 - A separation layer is required such as dampcourse
- Mid span and bracing blocking details are simple and easy to install and make council pre inspection a breeze.
- Pre Engineered Span Tables allow ease of specification at the design stage. We provide a PS1 with all floors for consent.
- One hour fire rating using GIB Fire Rated Floor/Ceiling Systems.
- Acoustic ratings achieved using the Soundown or GIB Noise Control Systems.

When you consider span capability and ease of install EZYJOIST is the most cost effective floor joist system on the market.

LOAD BEARING WALL HOLD DOWN (WALL BETWEEN JOISTS)



TABBED CONNECTION

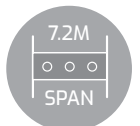
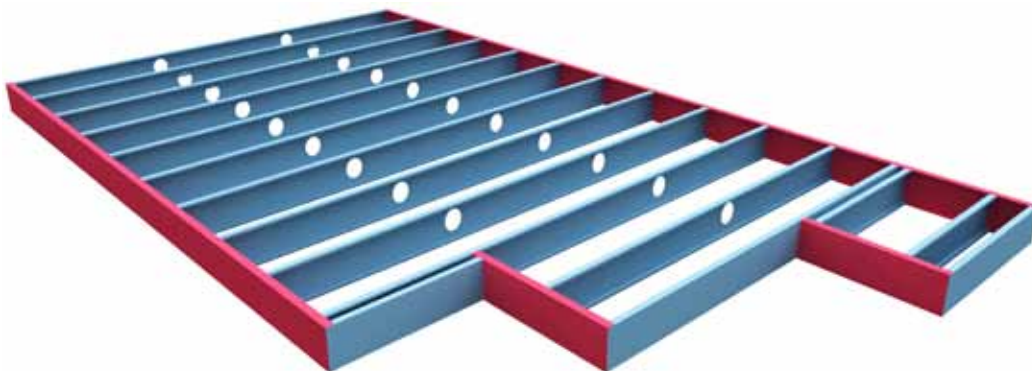


TECHNICAL

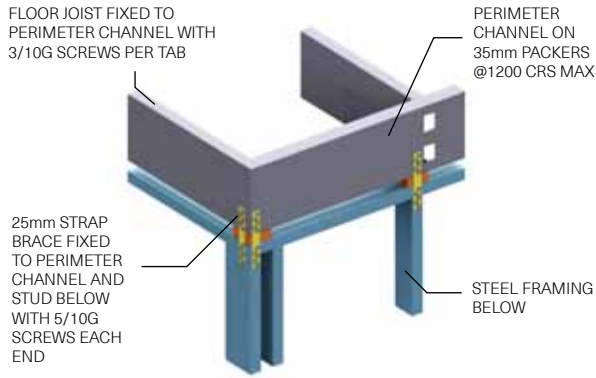
Connection details available in our Construction Manual. Download from www.steelhaus.co.nz/steel-buildings-nz

WHY STEEL

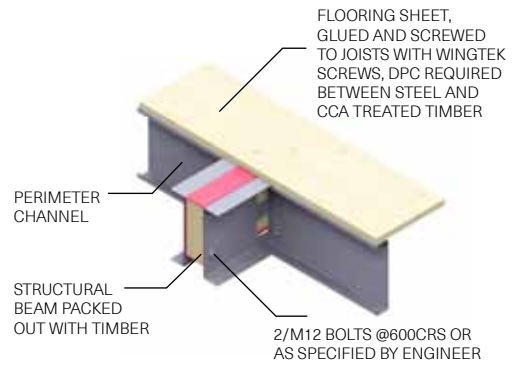
VISIT: www.steelhaus.co.nz/steel-construction-nz



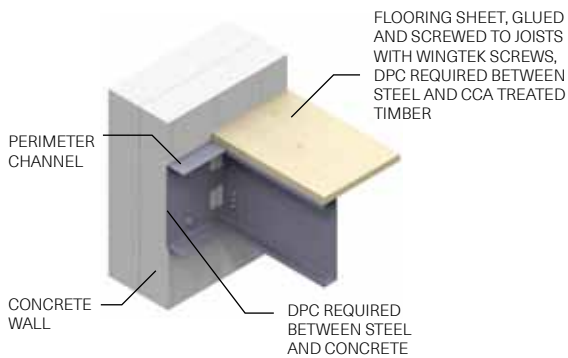
MID FLOOR JOIST OVER LOAD BEARING WALL



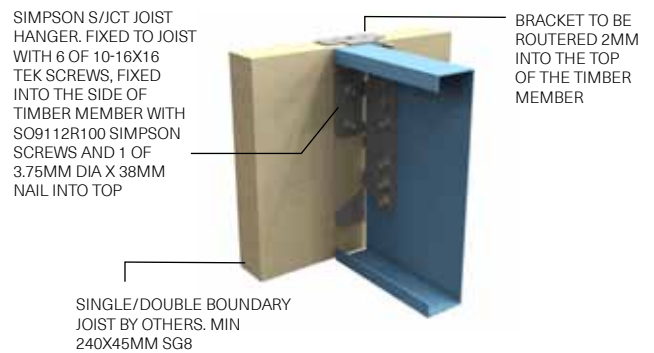
MID FLOOR PERIMETER CHANNEL FIXED TO STRUCTURAL BEAM



MID FLOOR JOIST BOLTED TO A CONCRETE WALL



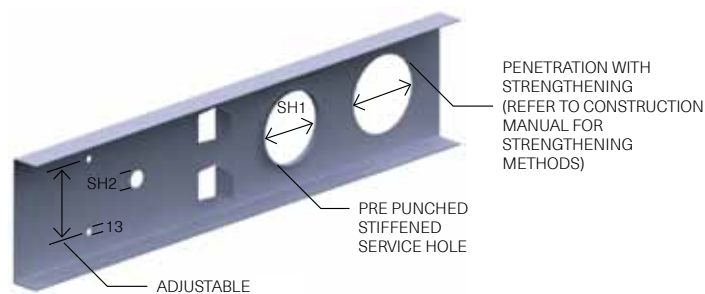
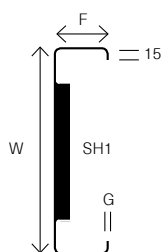
EZYJOIST TO TIMBER CONNECTION



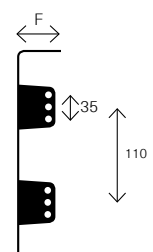
EZYJOIST SIZES

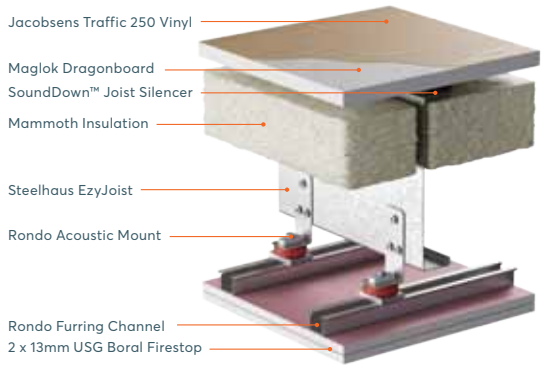
Profile	W	F	SH1	SH2	Penetration with Strengthening	TAB QTY	G	Material
EJ150x45x1.55mm	150mm	45mm	NA	34mm	80mm	1	1.55mm	G250 Z275 Galv
EP150x60x1.55mm	150mm	58mm	NA	34mm	80mm	1	1.55mm	G250 Z275 Galv
EJ190x45x1.55mm	190mm	45mm	90mm	34mm	130mm	1	1.55mm	G250 Z275 Galv
EP190x60x1.55mm	190mm	58mm	90mm	34mm	130mm	1	1.55mm	G250 Z275 Galv
EJ240x45x1.15mm	190mm	45mm	155mm	34mm	150mm	2	1.15mm	G250 Z275 Galv
EP240x60x1.15mm	190mm	58mm	155mm	34mm	150mm	2	1.15mm	G250 Z275 Galv
EJ240x45x1.55mm	240mm	45mm	155mm	34mm	150mm	2	1.55mm	G250 Z275 Galv
EP240x60x1.55mm	240mm	58mm	155mm	34mm	150mm	2	1.55mm	G250 Z275 Galv
EJ240x45x1.95mm	240mm	45mm	155mm	34mm	150mm	2	1.95mm	G250 Z275 Galv
EP240x60x1.95mm	240mm	58mm	155mm	34mm	150mm	2	1.95mm	G250 Z275 Galv
EJ240x45x2.5mm	240mm	45mm	155mm	34mm	150mm	2	2.5mm	G250 Z275 Galv
EP240x60x2.5mm	240mm	58mm	155mm	34mm	150mm	2	2.5mm	G250 Z275 Galv
EJ290x45x1.55mm	290mm	45mm	155mm	34mm	150mm	2	1.55mm	G250 Z275 Galv
EP290x58x1.55mm	290mm	58mm	155mm	34mm	150mm	2	1.55mm	G250 Z275 Galv
EJ290x45x1.95mm	290mm	45mm	155mm	34mm	150mm	2	1.95mm	G250 Z275 Galv
EP290x58x1.95mm	290mm	58mm	155mm	34mm	150mm	2	1.95mm	G250 Z275 Galv
EJ290x45x2.5mm	290mm	45mm	155mm	34mm	150mm	2	2.5mm	G250 Z275 Galv
EP290x58x2.5mm	290mm	58mm	155mm	34mm	150mm	2	2.5mm	G250 Z275 Galv

FLOOR JOIST (EJ) PROFILE



PERIMETER CHANNEL (EP) PROFILE





EZYJOIST TO TIMBER CONNECTION



UP TO 7.25 METER SPANS OPENING UP ROOM DESIGN

Max joist span for 1.5kPa (residential) live load & 0.5kPa dead load (typically timber flooring with carpet & gib ceiling on battens)

Profile	Web (mm)	Flange (mm)	Lip (mm)	Material Thickness (mm)	Max Hole Dia (mm)	Minimum Hole Spacing (mm)	Max Span (mm)			Max Cantilever (mm)		
							400cts	450cts	600cts	400cts	450cts	600cts
EJ150x1.55	150	45	16	1.55	32	1000	3650	3650	3300	800	800	800
EJ190x1.55	190	45	16	1.55	90	1000	4400	4400	4050	1100	1100	1100
EJ240x1.15	240	45	16	1.15	155	1000	4850	4850	4200	900	900	900
EJ240x1.55	240	45	16	1.55	155	1000	5350	5350	5000	1500	1500	1500
EJ240x1.95	240	45	16	1.95	155	1000	5750	5750	5450	1800	1800	1800
EJ240x2.50	240	45	16	2.5	155	1000	6200	6200	6200	1950	1950	1850
EJ290x1.55	290	45	16	1.55	155	1000	6250	6250	6250	1900	1900	1750
EJ290x1.95	290	45	16	1.95	155	1000	6700	6700	6700	2100	2100	2000
EJ290x2.50	290	45	16	2.5	155	1000	7250	7250	7050	2250	2250	2250

Max joist span for 3.0kPa (offices) live load & 0.5kPa dead load (typically timber flooring with carpet & gib ceiling on battens)

Profile	Web (mm)	Flange (mm)	Lip (mm)	Material Thickness (mm)	Max Hole Dia (mm)	Minimum Hole Spacing (mm)	Max Span (mm)			Max Cantilever (mm)		
							400cts	450cts	600cts	400cts	450cts	600cts
EJ150x1.55	150	45	16	1.55	32	1000	3650	3600	3150	800	800	800
EJ190x1.55	190	45	16	1.55	90	1000	4400	4150	3600	1100	1100	1100
EJ240x1.15	240	45	16	1.15	155	1000	3850	3600	3100	900	900	900
EJ240x1.55	240	45	16	1.55	155	1000	5000	4700	4100	1500	1500	1500
EJ240x1.95	240	45	16	1.95	155	1000	5750	5500	4800	1800	1800	1800
EJ240x2.50	240	45	16	2.5	155	1000	6200	6050	5250	1950	1950	1850
EJ290x1.55	290	45	16	1.55	155	1000	5800	5450	4700	1900	1900	1750
EJ290x1.95	290	45	16	1.95	155	1000	6650	6300	5450	2100	2100	2000
EJ290x2.50	290	45	16	2.5	155	1000	7200	7000	6250	2250	2250	2250

Max joist span for 5.0kPa (storage) live load & 0.5kPa dead load (typically timber flooring with carpet & gib ceiling on battens)

Profile	Web (mm)	Flange (mm)	Lip (mm)	Material Thickness (mm)	Max Hole Dia (mm)	Minimum Hole Spacing (mm)	Max Span (mm)			Max Cantilever (mm)		
							400cts	450cts	600cts	400cts	450cts	600cts
EJ150x1.55	150	45	16	1.55	32	1000	3050	3900	2500	800	800	800
EJ190x1.55	190	45	16	1.55	90	1000	3500	3300	2850	1100	1100	1100
EJ240x1.15	240	45	16	1.15	155	1000	3050	2850	2450	900	900	900
EJ240x1.55	240	45	16	1.55	155	1000	3950	3750	3250	1500	1500	1500
EJ240x1.95	240	45	16	1.95	155	1000	4650	4400	3800	1800	1800	1800
EJ240x2.50	240	45	16	2.5	155	1000	5100	4800	4150	1950	1950	1850
EJ290x1.55	290	45	16	1.55	155	1000	4600	4300	3750	1900	1900	1750
EJ290x1.95	290	45	16	1.95	155	1000	5300	5000	4300	2100	2100	2000
EJ290x2.50	290	45	16	2.5	155	1000	6100	5750	4950	2250	2250	2250



ENVIRONMENTAL

Steelhaus is proud to be associated with and stand alongside these trusted industry names. As chartered members of the Sustainable Steel Council we are committed to a cleaner, more efficient industry and support New Zealand's low emissions future.



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