

## EZYJOIST™ SYSTEM

### PURPOSE

SteelHaus supplies the EZYJOIST™ System for use as a pre-engineered floor joist system.

### EXPLANATION

The EZYJOIST™ System comprises:

- EZYJOIST™ Floor Joists, which are C-shaped, horizontal structural members with a web, flange and lip, incorporating penetration holes for services.
- EZYJOIST™ Perimeter Channels, which are channels that are fixed to the primary structure to support the joists at each end.

The EZYJOIST™ system is manufactured from G250 Z275 grade galvanized steel coil supplied by New Zealand Steel Ltd and Colorfan Z450 grade GalFan coated steel coil supplied by Yieh Phui PhuizerFan which is then rollformed and fabricated by SteelHaus into EZYJOIST™ Floor Joists and EZYJOIST™ Perimeter Channels.

EZYJOIST™ (EJ) Floor Joists are available in (Web x Flange x Thickness, mm):

- 150 x 41 x 1.15
- 150 x 45 x 1.55
- 190 x 45 x 1.55
- 240 x 45 x 1.15
- 240 x 45 x 1.55
- 240 x 45 x 1.95
- 240 x 45 x 2.5
- 290 x 45 x 1.55
- 290 x 45 x 1.95
- 290 x 45 x 2.5

EZYJOIST™ (EP) Channels are available in (Web x Flange x Thickness, mm):

- 150 x 60 x 1.55
- 190 x 60 x 1.55
- 240 x 60 x 1.15
- 240 x 60 x 1.55
- 240 x 60 x 1.95
- 240 x 60 x 2.5
- 290 x 58 x 1.55
- 290 x 58 x 1.95
- 290 x 58 x 2.5

The EZYJOIST™ Floor Joists and Perimeter Channels have 155 mm service holes, except:

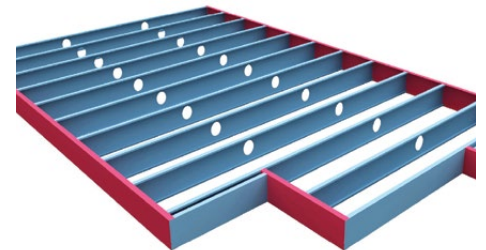
- the 190 x 45 x 1.55 floor joist and 190 x 60 x 1.55 perimeter channel have 90 mm service holes and
- the 150 x 45 x 1.55 floor joist and 150 x 60 x 1.55 perimeter channel have 34 mm service holes.

### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b>	
In all seismic zones as defined in NZS 3604:2011.	
In all exposure zones as defined in NZS 3604:2011.	<ul style="list-style-type: none"> <li>➤ Where microclimatic conditions apply as defined in NZS 3604:2011, contact SteelHaus for technical advice.</li> <li>➤ Fixing material must be in accordance with section 4 of NZS 3604:2011.</li> </ul>
Any proximity to a relevant boundary.	
<b>Building</b>	
The EZYJOIST™ System is 100 % recyclable.	
In conjunction with timber or lightweight steel framing that complies with the NZ Building Code or for existing buildings where the designer and/or installer have established that the existing structure is suitable for the intended building work.	
As a floor joist system.	<ul style="list-style-type: none"> <li>➤ In accordance with the EZYJOIST™ System span tables or specifically designed.</li> <li>➤ The EZYJOIST™ System must be protected from moisture.</li> </ul>
As part of a fire rated, acoustic flooring system.	<ul style="list-style-type: none"> <li>➤ Subject to the design of the system and evidence of fire and acoustic rating.</li> </ul>

## EZYJOIST™

STEEL FLOOR JOIST SYSTEM



For further assistance please contact:

- ☎ 0508 826 766
- ✉ sales@steelhaus.co.nz
- 🌐 steelhaus.co.nz

### USEFUL INFORMATION

For design, installation and maintenance information, refer to [steelhaus.co.nz](http://steelhaus.co.nz).

### OTHER CERTIFICATIONS AND APPROVALS

New Zealand Steel as manufacturer of the steel coil product provide assurance that the steel has been manufactured in accordance with AS 1397.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all SteelHaus requirements, EZYJOIST™ System will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
<b>B1 STRUCTURE</b> B1.3.1 B1.3.2 B1.3.3 (a, b, f, j, m, q) B1.3.4 (a, b, c, d, e)	ACCEPTABLE SOLUTION B1/AS1 and ALTERNATIVE SOLUTION  VERIFICATION METHOD B1/VM1	<ul style="list-style-type: none"> <li>➤ Steel in accordance with AS 1397:2021, which is equivalent to AS 1397:2011 for the NZ Steel steel. AS 1397 is cited in NASH Standard Part 1:2016 and NASH Standard Part 2:2019 [New Zealand Steel, 05/08/2021, 02/06/2020].</li> <li>➤ Section properties in accordance with NASH Standard Part 1:2016.</li> <li>➤ Joist design and span tables in accordance with AS/NZS 4600:2005 and AS/NZS 1170 (set), as cited in B1/VM1 [Northern Consulting Engineers, n.d., SteelHaus, n.d.].</li> </ul>
<b>B2 DURABILITY</b> B2.3.1 (a), B2.3.2 (a)	ACCEPTABLE SOLUTION B2/AS1 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Steel in accordance with AS 1397:2021, which is equivalent to AS 1397:2011 for the NZ Steel steel. AS 1397 is cited in NASH Standard Part 1:2016 and NASH Standard Part 2:2019 [New Zealand Steel, 05/08/2021, 02/06/2020].</li> <li>➤ Chemical composition of steel tested to ASTM E 415:2017 and JIS G 1253:2002 [New Zealand Steel, 05/08/2021, 02/06/2020].</li> <li>➤ GalFan protective coating durability statement [Redco, 26/06/2023].</li> </ul>
<b>C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b> C3.7 (a)	ACCEPTABLE SOLUTION C/AS1 C/AS2	<ul style="list-style-type: none"> <li>➤ Steel is defined in C/AS1 and C/AS2 as non-combustible. Non-combustible products achieve a material group number 1.</li> </ul>
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Steel in accordance with AS 1397:2021 [New Zealand Steel, 05/08/2021, 02/06/2020].</li> <li>➤ Use in accordance with manufacturer's safety requirements.</li> </ul>

## SOURCES OF INFORMATION

- SteelHaus. [n.d.] *EZYJOIST™ Steel Floor Joist System*.
- New Zealand Steel. [02/06/2020] *Test Certificate No: 464261*.
- New Zealand Steel. [05/08/2021] *Test Certificate No: 494106*.
- Northern Consulting Engineers. [n.d.] *Design Calculation Report Joist Span Tables*. JOB No: HAUS0006 Revision 2.
- Redco. [26/06/2020] *Durability statement - Phuizerfan and Colorfan*. Report No. 19655.



1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of SteelHaus 2014 Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

[steelhaus.co.nz](http://steelhaus.co.nz)



SteelHaus 2014 Ltd confirms that if EZYJOIST™ System is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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