MERZ
CONSTRUCTION PRODUCTS

Timber Connector Brackets

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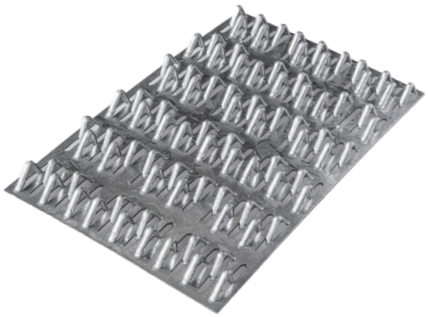
Knuckle Nail Plate

Code	Knuckle Nail Plate	Size (mm)	Thickness (mm)	*Pack Size	
TH2T4	Galvanised Steel (G300 Z275)	30 x 60	0.95 mm	1000	
TH4T5		34 x 120		500	
TH2T10		68 x 60		500	
TH4T10		68 x 120		300	
TH6T10		68 x 180		80	
TH8T10		68 x 240		80	
TH10T10		68 x 300		150	
TH12T10		68 x 360		100	
TH8T15		102 x 240		40	
TH6T15		102 x 180		40	
TH10T15		102 x 300		20	
TH12T20		136 x 360		50	

All available in specified pack size or as individual items (each's).

Bracing

Code	Product	Size (mm)	Thickness (mm)	*Pack Size	
	Strap Brace				
THSB10	Galvanised Steel (G300 Z275)	25mm X 10m	0.9 mm	250 PLT	
THSB30		25mm X 30m		250 PLT	
	Multi-Bracing				
THMB30	Galvanised Steel (G300 Z275)	50mm X 30m	1 mm	150 PLT	
	Tensioners				
THSBTEN	Galvanised Steel (G300 Z275)	25mm		4 pack	
BMBTENS		50mm		4 pack	
	Sheet Brace Strap				
THSBS400	Galvanised Steel (G300 Z275)	25mm X 400mm	1 mm	500	
THSBS600		25mm X 600mm		500	

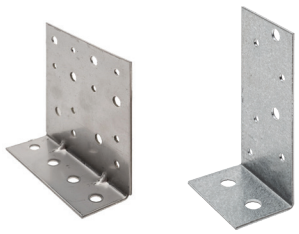
All available in specified pack size or as individual items (each's).

Joist Hangers

Code	Product	Size (mm)	Thickness (mm)	*Pack Size	
	Joist Hanger Double				
THJH94152	Galvanised Steel (G300 Z275)	94 x 152	0.91 mm	25	
	Joist Hanger				
BPRJH4590	Galvanised Steel (G300 Z275)	45 x 90	0.91 mm	45	
BPRJH45120		45 x 120		40	
BPRJH45180		45 x 180		30	
BPRJHSS4590	304 Stainless Steel	45 x 90	0.91 mm	45	
BPRJHSS47126		45 x 120		45	
BPRJHSS47177		45 x 180		30	
	Product Nails				
L125PN30315	Galvanised Steel (G300 Z275)	30 x 3.15		5kg Box	
L131PN30315	304 Stainless Steel	30 x 3.15		1kg Box	

**All available in specified pack size or as individual items (each's).*

Concealed Purlin Cleat

Code	Product	Size (mm)	Thickness (mm)	*Pack Size	
	CPC				
BCPC40	Galvanised Steel (G300 Z275)	2 x 40	2 mm	1	
BCPC80		2 x 80		1	
BSSCPC40	304 Stainless Steel	2 X 40	2 mm	1	
BSSCPC80		2 X 80		1	
	CPC Screws				
RST141035EG	HWF Type 17 ZYC	14-10 x 35		100	
RST121135	HWF Type 17 C4	12-11 x 35		100	
RST121135SS	HWF Type 17 St/St	12-11 x 35		100	

**All available in specified pack size or as individual items (each's).*

CPC Screws

Technical Requirements	Diameter and Thread Pitch		
	Gauge	12-11	14-10
Axial Withdrawal Force	KN	6.0	7.0
Axial Tensile Strength	KN	15.0	22.0
Torsional Strength	KN	13.0	18.0

NOTES:

- AS 3566.2-2002 specified that withdrawal tests be carried out from 1.6mm thick zinc coated steel, Type G450-Z275 in accordance with AS 1397.
- AS 3566.0-2002 does not specify values for Single Shear Load, values shown are for loading through the shank and are provided for information only.

Multi-Grip

Code	Product	Size (mm)	Thickness (mm)	*Pack Size	
	Multigrip				
THMG	Galvanised Steel (G300 Z275)	38 x 38 x 125	0.91 mm	250	
BPRMPMGS	304 Stainless Steel	38 x 38 x 125	0.91 mm	250	

**All available in specified pack size or as individual items (each's).*

Stud Tie

Code	Product	Size (mm)	Thickness (mm)	*Pack Size	
	Stud Tie				
BPRSST	Galvanised Steel (G300 Z275)	185mm	0.95 mm	250	

**All available in specified pack size or as individual items (each's).*

Advantages

Engineered to offer premium support with quality panel hold-down bracing elements.
Exceeds NZBS 3604:2011.
Concrete Slab fixing achieves the characteristic uplift strength of 15kN.
Timber floor fixing achieves the characteristic strength of 12kN.

Durability

The following table provides an easy guide for selecting Timber Connector products with corrosion resistant finishes that will meet and exceed NZS 3604:2011 Table 4.1.
Bracing Bracket Kits are only available in Galvanised Steel (Zinc Coated G300 Z275).

Zone	Fixing Fastening	Environment		Product
All Zones	Nail Plates	Fully enclosed walls, floors and roof spaces	Closed	Zinc Coated Z275
	C-Nails & Bolts			Hot-Dipped Galvanised Steel
	All other structural fixings	Closed		Carbon Steel - Zinc Coated
Zones B & C	All subfloor fastenings more than 600 mm above the ground	Vented 7000 mm2/ m2 or LESS	Sheltered	Hot-Dipped Galvanised Steel
		Vented MORE than 7000 mm2/m2	Exposed	304 Stainless Steel
	All subfloor fastenings within 600 mm of the ground	Sheltered and Exposed		304 Stainless Steel
	All other structural fixings	Sheltered		Hot-Dipped Galvanised Steel
		Exposed		304 Stainless Steel
Zone D	All structural fixings	Sheltered and Exposed		304 Stainless Steel

Performance Claims: CPC Screws (Galvanised)

NZ Building Code Clauses	Compliance Statement	Basis of Compliance demonstrated by:
B2 Durability B2.3.1 (a) B2.3.2 (b)	Verification Method B2/VM1	Materials in accordance with section 4 of NZS 3604:2011 and Table 1 of Acceptable Solution B2/AS1.
F2 Hazardous Building Materials F2.3.1	Alternative Solution	Galvanised (Z275 Plated) Concealed Purlin Cleat Screws do not contain or emit harmful materials.

Scope & Limitations of Use: CPC Screws (Galvanised)

Scope	Limitations
Location -In all exposure zones as defined in NZS 3604:2011, section. 4.	Must not be used in microclimate conditions para 4.2.4, NZS 3604:2011.
Location - In all earthquake zones as defined in NZS 3604:2011.	Must be specified by, or supervised by, a licensed building practitioner with the relevant licence class.
Building - In all building work where fixing is required to concrete or masonry.	Concrete construction must be in accordance with NZS 3101:2006. Timber construction must be to NZS 3604:2011 (as modified by B1/AS1) or specifically designed to NZS 3603:1993 and AS/NZS 1170:2002 (as modified by B1/VM1).
Building - In conjunction with a wall bracing panel as defined by NZS 3604:2011 (as modified by B1/AS1).	Must be specified by, or supervised by, a licensed building practitioner with the relevant licence class.

Performance Claims: CPC Screws (Stainless Steel)

NZ Building Code Clauses	Compliance Statement	Basis of Compliance demonstrated by:
B2 Durability B2.3.1 (a) B2.3.2 (b)	Verification Method B2/VM1	Meet requirements of ETAG 001 (04/2013) Metal anchors for use in concrete. Refer to para 4.1.4 Durability.
F2 Hazardous Building Materials F2.3.1	Alternative Solution	Stainless Steel Concealed Purlin Cleat Screws do not contain or emit harmful materials.

Scope & Limitations of Use: CPC Screws (Stainless Steel)

Scope	Limitations
Location -In all exposure zones as defined in NZS 3604:2011, section. 4.	Must not be used in microclimate conditions para 4.2.4, NZS 3604:2011.
Location - In all earthquake zones as defined in NZS 3604:2011, including amendment (Feb 28, 2018).	Must be specified by, or supervised by, a licensed building practitioner with the relevant licence class.
Building - In all building work where fixing is required to concrete or masonry.	Concrete construction must be in accordance with NZS 3101:2006. Timber construction must be to NZS 3604:2011 or specifically designed on NZS 3603:1993
Building - In conjunction with a wall bracing panel as defined by NZS 3604:2011	Must be specified by, or supervised by, a licensed building practitioner with the relevant licence class.
In conjunction with treated timber, including CCA treatment.	Maximum Hazard Class H3.2.

Performance Claims: CPC Screws (Zinc)

NZ Building Code Clauses	Compliance Statement	Basis of Compliance demonstrated by:
B1 Structure B1.3.1, B1.3.2 B1.3.3 (h, m & q)	Verification Method B2/VM1	CE Declaration of performance to EN 14592 and manufactured to ASTM F1667.
	Alternative Solution	UES evaluation to International Building Code (IBC) and International Residential Code (IRC) [UES, 19/12/2022].
B2 Durability B2.3.1 (a & b), B2.3.2 (b)	Alternative Solution	UES evaluation to International Building Code (IBC) and International Residential Code (IRC) [UES, 19/12/2022]. Material durability corresponds with Table 20 of E2/AS1, comprising standard steel, stainless steel SS304/A2 stainless steel, and electro-galvanized coating.
F2 Hazardous Building Materials F2.3.1	Alternative Solution	Fasteners do not contain or emit harmful materials. UES evaluation to International Building Code (IBC) and International Residential Code (IRC) [UES, 19/12/2022].

Scope & Limitations of Use: CPC Screws (Zinc)

Scope	Limitations
Location -In all exposure zones as defined in NZS 3604:2011, sec 4.	Must not be used in microclimatic conditions (as defined in para 4.2.4, NZS 3604:2011).
Building - In all building work where substituted for a nail or screw.	Fastener selection must be appropriate formaterial and fixing purpose.
Building - In conjunction with all treated timber, including CCA treatment.	Must be specified by, or supervised by, a licensed building practitioner with the relevant licence class.
Building - In the construction of horizontal diaphragm, shear and braced walls construction where specifically designed to AS/NZS 1170:2002.	Maximum Hazard Class H3.2.