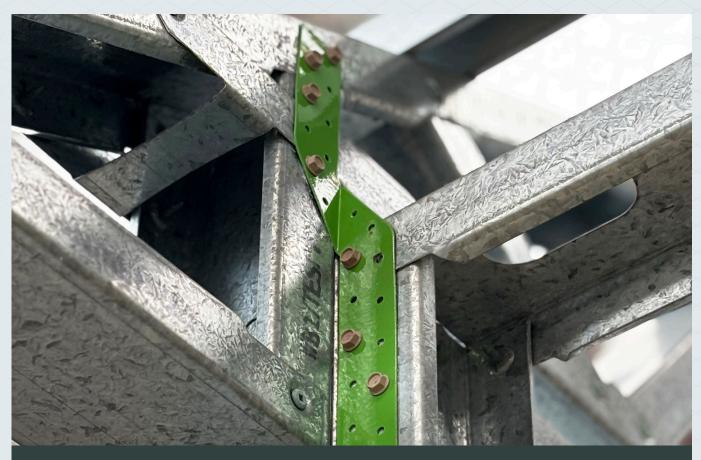




CATALOG

FRAMECAD Building Components

# Connectors for Steel Framed Construction



For more information, details or a quote, please contact us at: framecad.com/contact-us

FRAMECAD Connectors: Engineered for Excellence

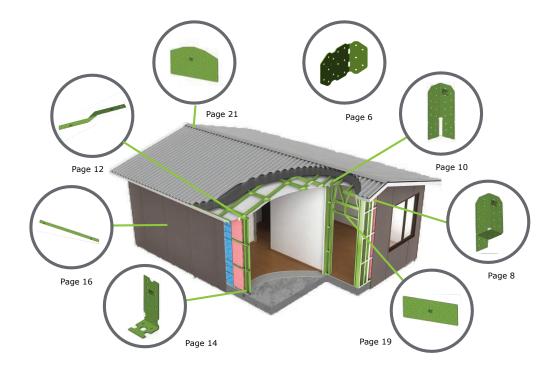
FRAMECAD Connectors are meticulously designed to ensure speed, suitability, and superior performance. Each connector plays a crucial role in delivering the most advanced and comprehensive end-to-end steel frame building solutions globally.

Our portfolio includes a wide range of connectors for steel truss, wall, and joist assemblies essential for construction. FRAMECAD connectors are crafted with four primary objectives in mind:

DESIGN:	Ease of design with correct information specified in FRAMECAD Software to deliver robust and reliable structures.
SPEED:	All connectors have been selected to optimise the speed and efficiency of the FRAMECAD building system. Using FRAMECAD screws reduces labour costs by making it quicker and easier to fix screws consistently, helping business reach optimum production rates, both in the factory and on-site.
SUITABILITY:	As the world leader in Cold Formed Steel construction technology FRAMECAD has developed FRAMECAD Connectors to further improve and advance this construction system. The protective green powder coating makes identification
	of FRAMECAD connectors easy during construction to ensure correct location and installation.
	The specified FRAMECAD Fasteners form a critical part of the connector's tested performance and substitution with noncompliant screws or components may compromise the integrity of the structure.
PERFORMANCE:	The design capacity of the connector range has been calculated in accordance with AS/NZ 4600:2018 and AISI S100:2020. FRAMECAD Fasteners have been tested according to the AS/NZS 4600:2018 and AISI S100:2020 to ensure they perform effectively with the FRAMECAD Building System as well as complying to all relevant manufacturing standards.



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### Compliance

### FRAMECAD Connectors: Quality and Compliance



FRAMECAD Connectors are manufactured from high-quality steel that complies with AS/NZ 1397 G350 and ASTM A653M HSLAS Type A Grade 340 standards. Each connector features a galvanized Z275 coating and is further protected with FRAMECAD's long-life green protection coating to enhance corrosion resistance.

The design capacity of our connectors is calculated in accordance with AS/NZ 4600:2018 and AISI S100:2020 standards. FRAMECAD fasteners undergo rigorous testing to meet these standards and are produced in ISO 9001 certified facilities, ensuring consistent quality and reliability.

All constructions using FRAMECAD products must adhere to local, national, or international building regulations. FRAMECAD products are FRAMECAD Certified, and the ratings published in this guide are valid when the products are designed, installed, and used according to this guide and approved by a locally registered engineer.

### Substitution



The performance of FRAMECAD connection solutions is sensitive to design detailing, products used and construction practices. All FRAMECAD connection solutions have been developed specifically for use with the FRAMECAD cold formed steel framing system and tested and assessed to ensure the required level of performance.

It is important to use only FRAMECAD branded components where specified and closely follow the design details and construction practices, so you can be confident that the required level of structural performance is achieved on site.



### Installation

### FRAMECAD Erection Fasteners

FRAMECAD Erection Fasteners have a Drill Point capable of drilling into medium to heavy gauge steel.

For successful connection, the screw must be of sufficient length to ensure at least three (3) threads are protruding through the fastened material.

The drill point length must exceed the combined thickness of both the fixture and the substrate, including any spaces or gaps, to ensure proper fastening

# Where to Screw, Fasteners Spacing, End and Edge Distance Requirement

Min edge distance (a2) = 1.5df (approximately 8mm for 10g screws) Min Spacing (b1 or b2)= 3.0df (approximately 15mm for 10g screws) Where df = Nominal screw diameter (mm)

FRAMECAD

Connector

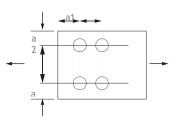
#### Notes:

- The end distance is the distance to the edge of the steel measured in the rection of the applied force.
- To avoid tearing, the minimal end distance, a1, for our connector range is 8mm, unless otherwise specified.
- Use only the specified FRAMECAD connectors and specified FRAMECAD fastener type and quantity.
- Do not over load the joints or connectors.
- Any gaps in joints between steel members must not exceed 1.5mm.
- Do not weld connectors or drill additional fastener holes.
- Do not overtighten screws. Screws must be of sufficient length to ensure at least 3 threads protrude through the fastened material.

### FRAMECAD Cold Formed Steel Specification

The design yield strength (Fy) and tensile strength (Fu) for cold-formed steel frame materials are specified in the table below.

Fy (MPa)						Fu (MPa)					
	Frame Material Thickness BMT (mm)					Frame i	material	thicknes	s BMT (n	າm)	
AS 1397	ASTM A653	0.55	0.75	0.95	1.15	1.55	0.55	0.75	0.95	1.15	1.55
G350	50	N/A	350	350	350	350	N/A	420	420	420	420
G500	70	N/A	500	500	500	N/A	N/A	520	520	520	N/A
G550	80	410	495	550	N/A	N/A	410	495	550	N/A	N/A



Minimum 3 Threa

Steel Frame

### Truss Bracket TBR-A2 / TBL-A2

#### Application:

The Truss Bracket suits a wide range of Truss Frame connections.

The unique geometry forms a truss tie-down that allows for direct fixing to walls studs, as required for resisting high uplift forces. Alternatively, the bracket may be used to tie trusses directly to the wall top plate when a thermal block or doubler plate is present.

Truss Brackets also provide a specialist plate to strengthen connections in roof and floor truss fabrication, and form part of the FRAMECAD certified system.

Truss Brackets are supplied with 90-degree prebend in Left and Right formations. The short tab is to be bent horizontal on site to suit the application.

Item Code	313600					
Profile						
Steel Grade	G350: t = 1.15mm BMT*					
Application	Steel Frame: t = 0.75 to 1.55mm BMT*					
Finish	Galvanized Z275 with Protective Gree	en Powder Coating				
Packaging	50 units total, 25 each of Left and Rig	ght				

Patent Protected.

\* BMT = Base Material Thickness

#### Installation:

**Truss Frame Connection Plate Application**: Refer to FRAMECAD framing system manuals for details.

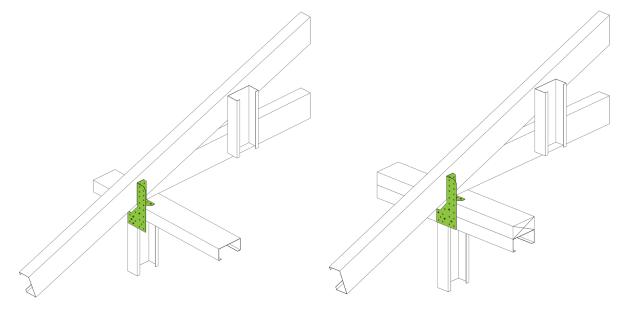
**Truss Tie-Down Application**: Bend short tab inwards to the horizontal, and fix with 10g screws as specified in the tie-down design capacity tables, or to Engineer's specification.

For fixing use FRAMECAD 10g HWH FrameFix screws, or for applications that require a flush finish, use FRAMECAD Flathead screws.



Product	Item Code	Size	Description	Carton Qty		
HWH FrameFix DP	Ideal for panel to panel fixing during frame erection and for attaching connectors to framing members					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000		
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.					
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000		

#### **Truss Bracket Tie-Down Connector Design Capacities**



Truss connection to single top plate

Truss connection to two top plates

Design Capacity - LRFD Force (kN)					AS/NZS 4600 / AISI S100							
	_		Number of	Steel Thickness Framing (BMT)								
Item Code	Bracket Gauge (mm)	Steel Grade (Framing)	screws required for Uplift	0.75mm		0.95mm		1.15mm		1.55mm		Total Screws
	()	) (Frannig)	Restraint	F1	F2	F1	F2	F1	F2	F1	F2	
		G350	2 – 10g	2.5	2.5	3.6	3.6	4.8	4.8	6.1	5.1	7
			3 – 10g	3.8	2.5	5.4	3.6	7.1	4.8	9.1	5.1	9
			4 - 10g	5.1	2.5	7.2	3.6	9.1	4.8	9.1	5.1	11
		1.15 G500 G550	2 - 10g	3.1	3.1	4.4	4.4	5.9	5.1	N/A	N/A	7
313600	1.15		3 - 10g	4.7	3.1	6.6	4.4	8.9	5.1	N/A	N/A	9
			4 - 10g	6.3	3.1	8.8	4.4	9.1	5.1	N/A	N/A	11
			2 – 10g	3.0	3.0	4.4	4.4	N/A	N/A	N/A	N/A	7
			3 – 10g	4.5	3.0	6.6	4.4	N/A	N/A	N/A	N/A	9
			4 - 10g	6.0	3.0	8.8	4.4	N/A	N/A	N/A	N/A	11



- 1. In addition to providing uplift screws to both truss and wall frame, provide 2 screws to horizontal leg and 1 additional screw to upper half of the vertical leg.
- 2. Not all fastener holes need to be filled, multiple fastener holes are provided to give options for screw location.
- 3. LRFD Force is the LRFD Design capacity according to AISI S100 and equal to the Ultimate Limit State (ULS) design capacity according to AS/NZS 4600.
- 4. The nominal shear strength of the screw connections are limited by tearing when critical, with a minimum edge distance of 8mm.

#### **Ordering and Packaging**

Item Code	Description	Qty
313600	TBR-A2 / TBL-A2 Truss Bracket Connector 1.15mm	50

### Multi Plate Connector MP-A1

#### **Application:**

The Multi Plate connector bracket suits a wide range of frame-to-frame connections. Use it for the erection of hip and valley roof trusses. Supplied with 45-degree prebend, adjustable from 0 to 135 degrees (bend once only).

Patent Protected.

Item Code	116975
Profile	
Steel Grade	G300: t = 1.5mm BMT*
Application	Steel Frame: t = 0.75 to 1.15mm BMT*
Finish	Galvanized Z275 with Protective Green Powder Coating
Packaging	50 units per carton

\* BMT = Base Material Thickness

#### Installation:

Use FRAMECAD HWH FrameFix screws, or for applications that require a flush finish, use FRAMECAD Flathead screws.

For screw numbers please refer to engineers' specifications.

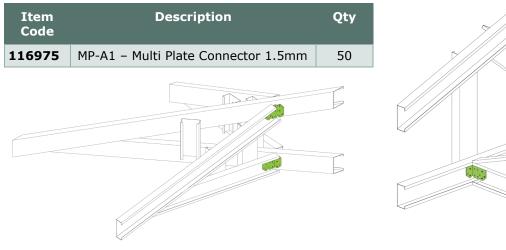
Product	Item Code	Size	Description	Carton Qty			
HWH FrameFix DP		Ideal for panel to panel fixing during frame erection and for attaching connectors to framing members					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
	002409	12g x 25mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.						
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000			

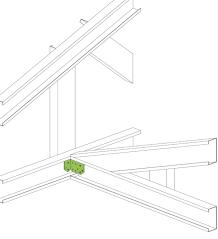


#### Multi Plate Connector Design Capacity

Shear Force (kN): AS/NZS 4600 /AISI S100								
	Fixing Method	I		Framing	Material			
10gx19	mm HWH Frar	neFix DP		AS - 139	97: 2021			
				S	teel Thicknes	55		
Screw Pattern	Screw Location	Total No. Screws	Steel Grade	0.75mm BMT	0.95mm BMT	1.15mm BMT		
			G500	4.9	6.8	7.5		
JFA		10	G550	4.6	6.8	-		
			G350	3.9	5.6	7.3		
	<u>```@`@`</u>		G500	3.8	5.4	6.8		
JFB	°°°°°°	6	G550	3.6	5.4	-		
	<u>```@</u> @`		G350	3.1	4.4	5.8		
			G500	3.2	4.5	5.7		
JFC	, <b>o</b> , o	8	G550	3.0	4.5	-		
	ن ق		G350	2.6	3.7	4.8		
	(@ <u>_</u> @)		G500	2.7	3.7	4.8		
JFD	<u>`</u> @````@`	8	G550	2.5	3.7	-		
			G350	2.1	3.1	4.0		
			G500	2.0	2.9	3.6		
JFE		8	G550	1.9	2.9	-		
			G350	1.6	2.3	3.1		
			G500	1.0	1.4	1.8		
JFF		6	G550	0.9	1.4	-		
	تە <u>ن</u> ىپە		G350	0.8	1.2	1.5		

### **Ordering and Packaging**





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## Tri Fix Tie-down TF/R-A2 | TF/L-A2

#### Application:

Used to tie-down roof trusses, joists or rafters to the wall frame. Can also be used in cyclonic environments when fixed on both sides of the wall plate, with appropriate plate to stud fixing.

Item Code	009808 (Left)	009806 (Right)					
Profile	114mm	38mm					
Steel Grade	G350 t = 1.15mm BMT*						
Application	Steel Frame: 0.75 to 1.55mm BMT*						
Finish	Galvanized Z275 with Protective Gree	en Powder Coating					
Packaging	50 units total, 25 each of Left and Ri	ght					

\* BMT = Base Material Thickness

#### Installation:

Use FRAMECAD Certified Hex Head screws or, for applications that require a flush finish, use FRAMECAD Flathead screws. For quantity of screws refer to the Design Capacities Tables.

Product	Item Code	Size	Description	Carton Qty		
HWH FrameFix DP	Ideal for panel to panel fixing during frame erection and for fixing connectors.					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000		
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.					
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000		



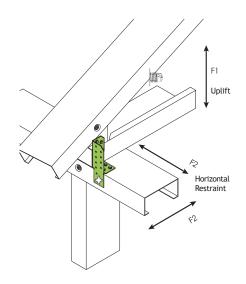
#### **Tri Fix Design Capacities**

Design Capacity - LRFD Force (kN)				AS/NZS 4600 / AISI S100								
			Number of			Stee	l Thickr	ness Fra	aming (I	BMT)		
Item Code	Bracket Gauge	Steel Grade (Framing)	screws required (Uplift	0.75mm		0.95mm		1.15mm		1.55mm		Total Screws
		(*************************	Restraint)	F1	F2	F1	F2	F1	F2	F1	F2	
		G350	2 – 10g	2.5	2.5	3.6	3.6	4.8	4.8	6.1	5.1*	6
		6320	3 – 10g	3.8	2.5	5.4	3.6	7.1	4.8	9.1	5.1*	8
009806	1.15	1.15mm G500	2 – 10g	3.1	3.1	4.4	4.4	5.9	5.1*	N/A	N/A	6
& 009808	1.1311111		3 – 10g	4.7	3.1	6.6	4.4	8.9	5.1*	N/A	N/A	8
		CEEO	2 – 10g	3.0	3.0	4.4	4.4	N/A	N/A	N/A	N/A	6
		G550	3 – 10g	4.5	3.0	6.6	4.4	N/A	N/A	N/A	N/A	8

- 1. Not all fastener holes need to be filled, additional fastener holes are provided to give options for screw location.
- 2. LRFD Force is the LRFD Design capacity according to AISI S100 and equal to the Ultimate Limit State (ULS) design capacity according to AS/NZS 4600.
- 3. The nominal shear strength of the connection is limited by tearing when critical, with a minimum edge distance of 8mm.
- 4. A minimum of 2 screws must be used for horizontal restraint.
- 5. \*Connection capacity is limited by the steel strength of the Bracket.

#### Ordering and Packaging

Item Code	Description	Qty
009806	TF/R-A2 - Tri Fix Right - 1.15mm	25
009808	TF/L-A2 - Tri Fix Left - 1.15mm	25



## Multi Fix Connector MF-A2

#### Application:

The Multi Fix connector can be used at a 90-degree angle, or with either leg bent as a Tri Fix connector, allowing maximum flexibility in multiple applications. Use the Multi Fix Connector to tie down roof trusses and rafters and to connect trusses.

Item Code	313459				
Profile	114mm				
Steel Grade	G350 t = 1.15mm BMT *				
Application	Steel Frame: 0.75 to 1.55mm BMT *				
Finish	Galvanized Z275 with Protective Green Powder Coating				
Packaging	50 units of each type				

\* BMT = Base Material Thickness

#### Installation:

The bending slot allows for easy and accurate on-site bending. The Multi Fix can be bent into position only once along the bending slot.

Use FRAMECAD Certified HWH FrameFix drill point screws, or for applications requiring a flush finish, use FRAMECAD Flathead screws.

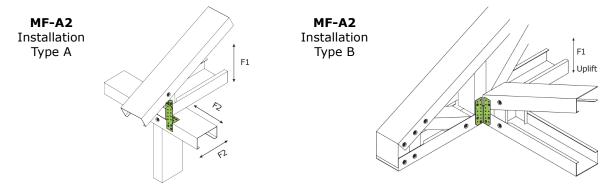
Product	Item Code	Size	Description	Carton Qty			
HWH FrameFix DP	Ideal for pa connectors.	Ideal for panel to panel fixing during frame erection and for fixing connectors.					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
FRAMECAD Flathead		Ideal for connecting metal strapping or bracing and adding additional strength to connectors.					
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000			



#### Multi Fix Design Capacities

Installat	Installation Type A Design Capacity - LRFD Force (kN) AS/NZS 4 AISI S											
			Number of			Stee	el Thickr	ness Fra	aming (I	BMT)		
Item Code	Bracket Gauge	Steel Grade (Framing)	screws required	0.75	Smm	0.95	5mm	1.15	5mm	1.55	5mm	Total Screws
		(Fraining)	(Uplift Restraint)	F1	F2	F1	F2	F1	F2	F1	F2	
		6250	2 – 10g	2.5	2.5	3.6	3.6	4.8	4.8	6.1	5.1*	6
		G350	3 - 10g	3.8	2.5	5.4	3.6	7.1	4.8	9.1	5.1*	8
242450	1 1 5	nm G500 G550	2 – 10g	3.1	3.1	4.4	4.4	5.9	5.1*	N/A	N/A	6
313459	1.15mm		3 – 10g	4.7	3.1	6.6	4.4	8.9	5.1*	N/A	N/A	8
			2 – 10g	3.0	3.0	4.4	4.4	N/A	N/A	N/A	N/A	6
			3 – 10g	4.5	3.0	6.6	4.4	N/A	N/A	N/A	N/A	8
Installat	tion Type	В		Design Capacity - LRFD Force (kN) AS/NZS 4600 / AISI S100								
			Number of	of Steel Thickness Framing (BMT)								
Item Code	Bracket Gauge	Steel Grade (Framing)	screws required	0.75	Smm	0.95mm		1.15mm		1.55mm		Total Screws
		(Training)	(Uplift Restraint)	F1	F2	F1	F2	F1	F2	F1	F2	
		G350	3 – 10g	3.1	N/A	4.4	N/A	5.8	N/A	7.3	N/A	6
313459	1.15mm	G500	3 – 10g	3.8	N/A	5.4	N/A	6.8	N/A	N/A	N/A	6
		G550	3 – 10g	3.6	N/A	5.4	N/A	N/A	N/A	N/A	N/A	6

- 1. Not all fastener holes need to be filled, additional fastener holes are provided to give options for screw location.
- 2. LRFD Force is the LRFD design capacity to AISI S100 and the Ultimate Limit State (ULS) design capacity to AS/NZS 4600.
- 3. The nominal shear strength of the connection is limited by tearing when critical, with a minimum edge distance of 8mm.
- 4. A minimum of 2 screws must be used for the F2 horizontal restraint.
- 5. The Multi Fix may only be bent into position once along the bending slots.
- 6. \*Connection capacity is limited by the steel strength of the Bracket.



#### **Ordering and Packaging**

Item Code	Description	Qty
313459	MF-A2 - Multi Fix Connector 1.15mm	50

## Twist Fix Strap TFS/R-A2 | TFS/L-A2

#### Application:

Used as a heavy-duty tie-down for roof trusses, joists, or rafters in high wind zones or where highstrength connections are required. The connector's geometry accommodates a high number of fasteners and enables the tie to be fixed directly along the length of the stud.

Item Code	009812 (Left)	009810 (Right)			
Profile		Soft of the second seco			
Steel Grade	G350 t = 1.15mm BMT*				
Application	Steel Frame: 0.75 to 1.55mm BMT*	Steel Frame: 0.75 to 1.55mm BMT*			
Finish	Galvanized Z275 with Protective Green Powder Coating				
Packaging	50 units of each type				

\* BMT = Base Material Thickness

#### Installation:

The Twist Fix Strap can be bent over the truss during installation. It must form a direct connection between the truss, joist, or rafter and the wall stud.

Use the specified number of FRAMECAD 10g Hex Head screws, or for applications requiring a flush finish, use FRAMECAD 10g Flathead screws. Refer to the Design Capacities Table for the required quantity of screws at each end of the Twist Fix Strap.

Product	Item Code	Size	Description	Carton Qty			
HWH FrameFix DP		Ideal for panel to panel fixing during frame erection and for fixing connectors.					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
	002409	12g x 25mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
FRAMECAD Flathead		Ideal for connecting metal strapping or bracing and adding additional strength to connectors.					
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000			

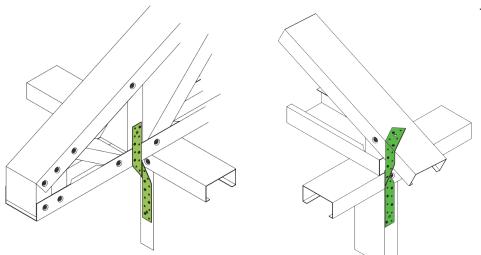


Design Capacity - LRFD Force (kN) AS/NZS 4600				1600 / AISI S1	00			
Item	Bracket	Steel Grade	Number of screws required	Steel Thickness Framing (BMT)				
Code	Gauge	(Framing)	(Uplift Restraint)	0.75mm	0.95mm	1.15mm		Total Screws
		G350	4 - 10g	5.0	7.2	8.8	8.8	8
		6320	6 - 10g	7.5	8.8	8.8	8.8	12
009810 &	1.15mm	mm G500	4 - 10g	6.2	8.8	8.8	N/A	8
009812			6 - 10g	8.8	8.8	8.8	N/A	12
		CEEO	4 - 10g	6.0	8.8	N/A	N/A	8
		G550	6 - 10g	8.8	8.8	N/A	N/A	12

#### **Twist Fix Strap Design Capacities**

1. Not all fastener holes need to be filled, additional fastener holes are provided to give options for screw location. Install fasteners symmetrically.

- 2. Install half of the total fasteners on each end of the strap to achieve full listed load capacity
- 3. LRFD Force is the LRFD Design capacity according to AISI S100 and equal to the Ultimate Limit State (ULS) design capacity according to AS/NZS 4600.
- 4. The nominal shear strength of the connection is limited by tearing when critical, with a minimum edge distance of 8mm.



The Twist Fix Strap can be bent over the truss to allow for additional screw placement.

#### Ordering and Packaging

Item Code	Description	Qty
009810	TFS/R-A2 - Twist Fix Strap (Right) 1.15mm	50
009812	TFS/L-A2 - Twist Fix Strap (Left) 1.15mm	50

### Holdown Fix & Washer HDF-A1

#### **Application:**

The Holdown Fix & Washer anchoring system is designed to secure steel frame structures to concrete, steel, or timber foundations and floors.

The special geometry of the bracket and washer allows for close placement to one side of the stud, increasing the concrete slab edge distance and maximizing the capacity of the anchor system.

FRAMECAD's Holdown Fix & Washer, combined with the FRAMECAD Screw Bolt, provides a highstrength anchoring solution to resist uplift forces typical in light-framed single and two-story dwellings.

Item Code	009815					
Profile						
Steel Grade	Bracket: G350 - 1.15mm	Washer (009688): G350 - 6mm				
Application	Steel Frame 0.55 to 1.55mm BMT*	Steel Frame 0.55 to 1.55mm BMT*				
Finish	Galvanized Z275 with Protective Green Powder Coating					
Packaging	25 units per carton (washer included	)				

\* BMT = Base Material Thickness

#### Installation:

The Holdown Fix & Washer anchoring system must be installed using the included washer, the specified number of FRAMECAD 12g HWH FrameFix screws, and an anchor bolt or screws with a design tension strength that meets the required design capacities.

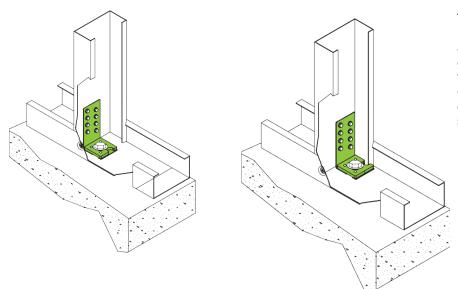
Product	Item Code		Description	Carton Qty			
HWH FrameFix DP	Ideal for pan	Ideal for panel to panel fixing during frame erection and for fixing connectors.					
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			
	002409	12g x 25mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000			



Design Capacity - LRFD Force (kN)			AS/NZS 4600 / AISI S100		
Item Code	Steel Grade	Number & Size of screws	Steel Thickness Framing (BMT)		
Item Code	(Framing)		0.55mm	0.75mm	≥0.95mm
	G350	6 - 12g	-	8.1	12*
		8 - 12g	-	10.7	12*
009815	G500	6 - 12g	-	10.0	12*
009015		8 - 12g	-	12*	12*
	G550	6 - 12g	4.9	9.6	12*
		8 - 12g	6.6	12*	12*

#### **Holdown Fix & Washer Design Capacities**

- 1. LRFD Force is the LRFD Design capacity according to AISI S100 and equal to the Ultimate Limit State (ULS) design capacity according to AS/NZS 4600.
- 2. Use the specified number of FRAMECAD certified Hex Head 12g screws.
- 3. Fix to Base with Anchors with a Design Tension Strength that meets the Design Capacity.
- 4. \*Capacity limited by the design strength of the Holdown Bracket determined by testing.



The design of the Bracket and Washer allows fixing close to one side of the framing to increase slab edge distance and maximise capacity of the anchor system.

#### **Ordering and Packaging**

Item Code	Description	Qty
009815	HDF-A1 Holdown Anchor 1.15mm & 6mm Flat Washer	25

## Strap Fix Bracing SF/32-A2

#### Application:

Used to brace roof, wall, and ceiling panels, Strap Fix is available in long coils with multiple holes, making it easy to use on site. It can also serve as a tie-down for wall frames or trusses.

Item Code	009814
Profile	
Description	SF/32-A2 32mm Strap Fix
Steel Grade	009815: G350 - 1.15mm BMT*
Application	Steel Frame 0.75 to 1.55mm BMT*
Finish	Galvanized Z275
Packaging	1 x 50mtr coil per carton

\* BMT = Base Material Thickness

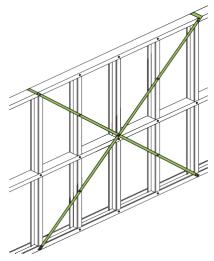
#### Installation:

To function as a structural bracing system, the bracing straps must be tensioned using the FRAMECAD Strap Fix Tensioner PT32.

After tensioning, the straps must be screwed to each stud they cross.

Ensure that each length of the strap has a properly tightened tensioner before securing it to the stud.

Refer to the Strap Fix Bracing Design Capacities table on the following page for the required quantity of screws.



Product	Item Code	Size	Description	Carton Qty
HWH FrameFix DP	Ideal for panel to panel fixing during frame erection and for fixing connectors.			
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.		onal	
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000



#### **Strap Fix Bracing Design Capacities**

Design Capacity - LRFD Force (kN)				AS/NZS 4600	) / AISI S100	)
	Number of screws each end – Screw Gauge					
Them Code	Frame Steel	Frame Material Thickness BMT (mm)			Allowable	
Item Code	Grade 0.75m	0.75mm	0.95mm	1.15mm	1.55mm	Loads
	G350	7 – 10g	5 – 10g	4 - 10g	4 - 10g	
009814 SF/32-A2	G500	6 – 10g	5 – 10g	4 - 10g	N/A	8.8
	G550	6 – 10g	5 – 10g	N/A	N/A	

- 1. Not all fastener holes need to be filled, additional fastener holes are provided. Install fastener symmetrically.
- 2. LRFD Strength is the LRFD Design capacity according to AISI S100 and is the Ultimate Limit State (ULS) design capacity according to AS/NZS 4600.
- 3. Nominal shear strength of the connection is limited by tearing when critical with an 8mm minimum edge distance.
- 4. The tables values are the quantity of fastener at each end of the Strap Fix Brace.

#### **Ordering and Packaging:**

Item Code	Description	Qty
009814	SF/32-A2 Strap Fix 1.15mm 32mm x 50 meters	1 x 50 mtr Coil



## Strap Fix Tensioner PT-32

#### Application:

Used in conjunction with FRAMECAD Strap Fix to brace roofs, walls and ceiling panels. The Strap Tensioner is easily installed on strap bracing to apply load to bracing systems to effectively resist deflection.

Designed for steel frames up to 1.55mm (BMT).

#### Features & Benefits:

- Galvanized Z275
- Manufactured to Steel grade AS/NZ 1397 G450 Hi Tensile Steel
- Max Extension attributable to the unit 4.0mm
- Compliant with: AS 4440 clause 4.3.2 steel brace

#### Installation:

The Strap Fix Tensioner can easily and quickly tension the Strap Fix simply by driving the Hex head screw. FRAMECAD Strap Fix takes the load in tension only and should be used in pairs; one Strap fix Tensioner on each Strap Fix.

#### Ordering and Packaging:

Item Code	Description	Qty
308321	PT-32 Strap brace tensioner Hi tensile Steel	100



## Fix Plate Connector FP-A2

#### **Application:**

Used to locally reinforce connection strength and connect cold formed steel panels.

Item Code	009801	
Profile		
	• • • • • • • •	
	FRAMECAD certified product FP A1	
Steel Grade	FP-A2: G350 - 1.15mm BMT*	
Application	Steel Frame 0.95 to 1.55mm BMT*	
Finish	Galvanized Z275 with Protective Green Powder Coating	
Packaging	50 units per carton	

\* BMT = Base Material Thickness

#### Installation:

Use FRAMECAD FrameFix Hex Head, or for applications that require a flush finish, use FRAMECAD Flathead Screws.

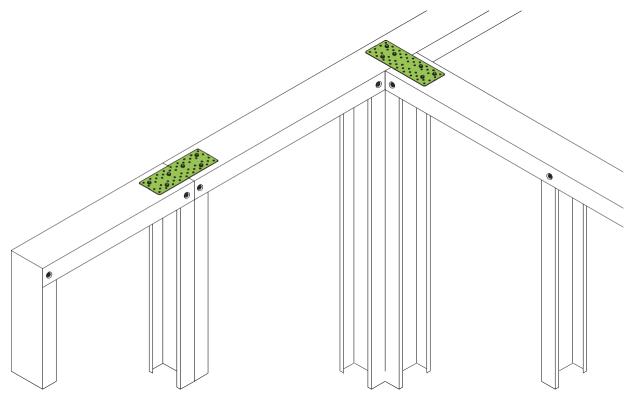
Product	Item Code	Size	Description	Carton Qty
HWH FrameFix DP	-	Ideal for panel to panel fixing during frame erection and for fixing connectors.		
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000
	002409	12g x 25mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.			onal
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000



#### **Fix Plate Design Capacities**

Design Capacity - LRFD Force (kN)		AS/NZS 4600 / AISI S100		
Item Code	Plate Thickness (mm)	F1 Tension Capacity (kN)	F2 Shear Capacity (kN)	
009801	1.15mm	32.2	18	

- 1. Not all fastener holes need to be filled, additional fastener holes are provided.
- 2. For screw numbers refer to engineers' specifications.



#### Ordering and Packaging:

Item Code	Description	Qty
009801	FP-A2 Fix Plate Connector 1.15mm	50

### Apex / Heel Connector Plate AHCP-A2

#### **Application:**

Suitable to locally reinforce connection strength of Heel and Apex of any Truss with a pitch of 80 to 320. Patent Protected.

Item Code	009803
Profile	
Steel Grade	AHCP-A2: G350 - 1.15mm BMT*
Application	Steel Frame 0.95 to 1.55mm BMT*
Finish	Galvanized Z275 with Protective Green Powder Coating
Packaging	50 units per carton

\* BMT = Base Material Thickness

#### Installation:

Use FRAMECAD Certified HEX Head or for applications that require a flush finish use FRAMECAD Flat Head Screws.

For Screw numbers please refer to engineers' specifications.

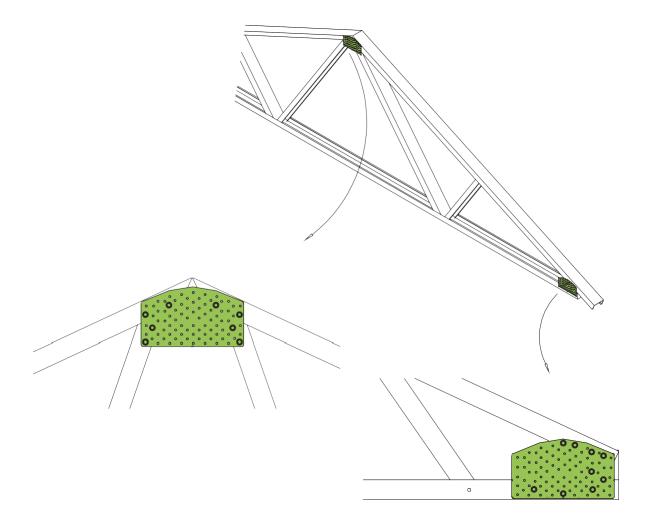
Product	Item Code	Size	Description	Carton Qty
HWH FrameFix DP	Ideal for panel to panel fixing during frame erection and for fixing connectors.			
	307387	10g x 19mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000
	002409	12g x 25mm	Hex Head FrameFix DP, 1000hrs, Loose	5,000
FRAMECAD Flathead	Ideal for connecting metal strapping or bracing and adding additional strength to connectors.			
	001539	10g x 16mm	FRAMECAD Flathead DP, 1000hrs, Loose	10,000



#### **Typical Installation**

FRAMECAD Connector Plates are specifically designed and engineered to make them easy and efficient to use with the practical geometry of steel trusses and framing.

For Screw numbers please refer to the engineers' specification.



#### **Ordering and Packaging:**

Item Code	Description	Qty
009803	AHCP-A2 Apex Heel 1.15mm	50



This document is current as of March 2025 and supersedes all previous versions.

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