



LSF PRO STRUCTURES

**PRECISION FRAMING.
DELIVERED WITH CONFIDENCE.**

LSF PRO STRUCTURES

ADVANCED LIGHT STEEL FRAMING SOLUTIONS

We engineer high-precision LSF parts and systems that make construction faster, safer, and more efficient. Our most commonly produced solutions support garden suites, sheds, and fishing huts, delivered through roll-forming and full framing lines to provide durable, flexible systems backed by expert support that helps builders streamline projects and reduce waste.

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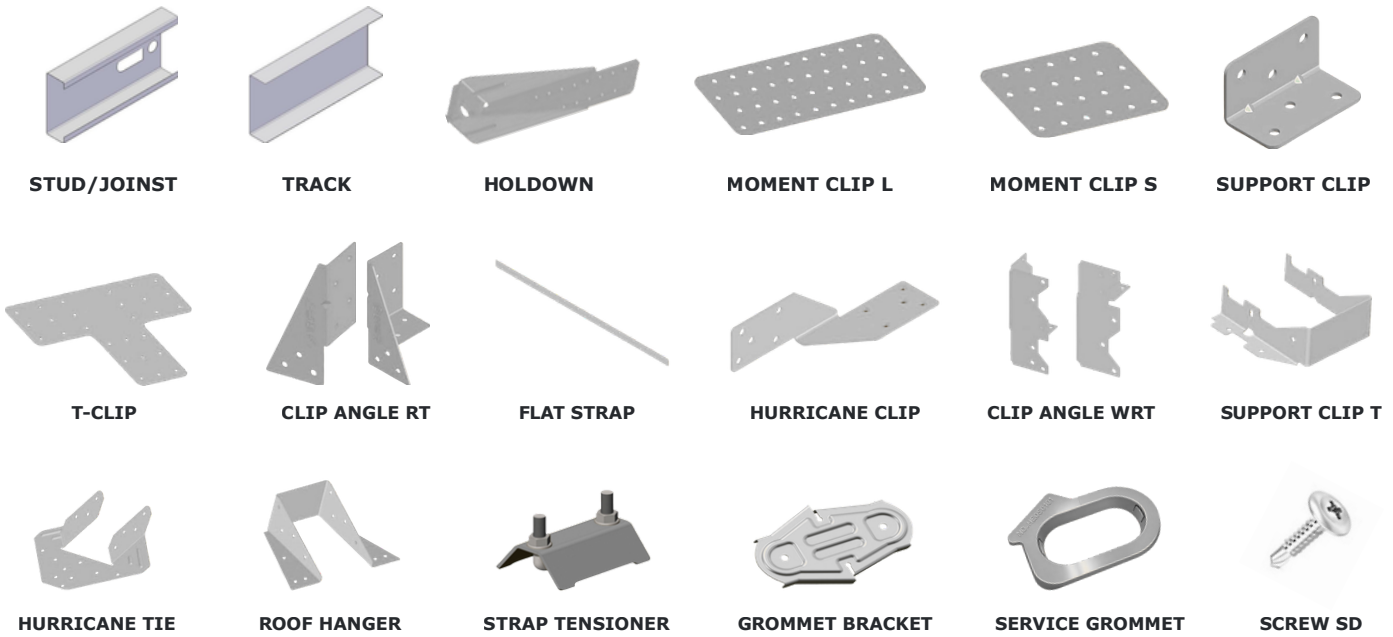
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Product Identification



Nomenclature Example

All SSMA products use a four-part identification system that specifies the web depth, flange width, profile style, and material thickness.

Member Web Depth

(Example: 6" = **600** x 1/100 inch)
 All member depths are given in 1/100 inch.
 For all "T" sections, member depth is the inside to inside dimension.

Flange Width

(Example: 41mm = 1.625" ≈ **162** x 1/1000 inch)
 All flange widths are given in 1/100 inch.

600 S 162 - 54

Style

(Example: Stud or Joist section = **S**)
 Nomenclature uses the following characters to designate the profile:
 S = Stud or Joist Sections
 T = Track Sections

Mil Thickness

(Example: 0.054" = **54** mils; 1 mil = 1/1000 inch)
 Mil thickness refers to the minimum base steel thickness, measured in thousandths of an inch.
 This minimum base steel thickness corresponds to 95 percent of the specified design thickness.

Structural Stud

These structural studs are designed for axial load-bearing and wind-resistant applications. They are manufactured under strict quality control procedures, ensuring consistent performance, reliability, and confidence for clients. Each stud is custom-cut to precise lengths with tight tolerances, making it especially suitable for axial loading conditions. The material is fully recyclable and contributes to sustainability goals, while also meeting LEED requirements.



Code Compliance

- ASTM A1003 : Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members.
- ASTM C754 : Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- ASTM A653 : Standard Specification for Steel Sheet, Zinc-Coated by the Hot-Dip Process.

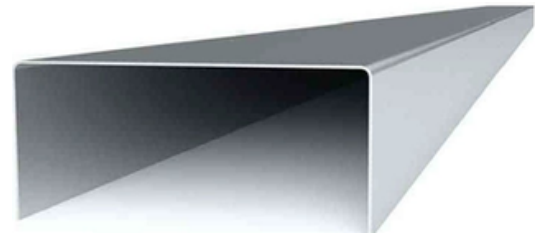
Structural Studs				
Stud Designation	Web (W)		Flange (F)	
	in.	mm	in.	mm
362S162- 30, 33, 43	3-5/8"	92.075	1-5/8"	41
362S200- 33, 43, 54, 68, 97			2"	51
400S162- 33, 43, 54, 68, 97	4"	101.6	1-5/8"	41
400S200- 33, 43, 54, 68, 97			2"	51
550S162- 30, 33, 43	5.5"	139.7	1-5/8"	41
550S200- 33, 43, 54, 68, 97			2"	51
600S162- 33, 43, 54, 68, 97	6"	152.4	1-5/8"	41
600S200- 33, 43, 54, 68, 97			2"	51
800S162- 33, 43, 54, 68, 97	8"	203.2	1-5/8"	41
800S200- 33, 43, 54, 68, 97			2"	51

Structural Joists				
Joist Designation	Web (W)		Flange (F)	
	in.	mm	in.	mm
800S200- 43, 54, 68, 97	8"	203.2	2"	51
1000S200- 43, 54, 68, 97	10"	254	2"	51
1200S200- 43, 54, 68, 97	12"	304.8	2"	51

Gauge - Thickness						
Gauge	Design Thickness			Yield Strength (Fy)		Coating
	in.	mm	Mils	ksi	MPa	
24	0.0171	0.43	17	33	228	G60, G90
22	0.0280	0.71	28	33	228	G60, G90
20	0.0346	0.88	33	33	228	G60, G90
18	0.0451	1.15	43	33, 50	228, 345	G60, G90
16	0.0566	1.44	54	50	345	G60, G90
14	0.0713	1.81	68	50	345	G60, G90
12	0.1017	2.58	97	50	345	G90

Structural Track

Structural metal framing tracks are key elements in load-bearing wall construction and structural framing systems. Installed horizontally at the top and bottom of wall assemblies, they provide alignment, support, and stability for the vertical structural metal studs.



Benefits

- Efficiency.
- Precision.
- Strength and Durability.

Code Compliance

- ASTM C754 : Installation of Steel Framing Member to Receive Screw-attached Gypsum Panel products.
- ASTM C1007: Standard Specification for Installation of Load-Bearing (Transverse and Axial) Steel Studs and Related Accessories.
- ASTM C653 : Standard Specification for Steel Sheet, Zinc-Coated by the Hot-Dip Process.

Structural Tracks				
Track Designation	Web (W)		Flange (F)	
	in.	mm	in.	mm
362T125- 33, 43, 54, 68, 97	3-5/8"	92.075	1-1/4"	31.75
362T150- 33, 43, 54, 68, 97			1 1/2"	38.10
362T200- 33, 43, 54, 68, 97			2"	50.80
400T125- 33, 43, 54, 68, 97	4"	101.6	1-1/4"	31.75
400T150- 33, 43, 54, 68, 97			1 1/2"	38.10
400T200- 33, 43, 54, 68, 97			2"	50.80
600T125- 33, 43, 54, 68, 97	6"	152.4	1-1/4"	31.75
600ST150 33, 43, 54, 68, 97			1 1/2"	38.10
600T200- 33, 43, 54, 68, 97			2"	50.80
800T125- 43, 54, 68, 97	8"	203.2	1-1/4"	31.75
800T150- 43, 54, 68, 97			1 1/2"	38.10
800T200- 43, 54, 68, 97			2"	50.80

Structural Tracks				
Track Designation	Web (W)		Flange (F)	
	in.	mm	in.	mm
1000T125- 43, 54, 68, 97	10"	254	1-1/4"	31.75
1000T150- 43, 54, 68, 97			1-1/2"	38.10
1000T200- 43, 54, 68, 97			2"	50.80
1200T125- 43, 54, 68, 97	12"	304.8	1-1/4"	31.75
1200T150- 43, 54, 68,97			1-1/2"	38.10
1200T200- 43, 54, 68, 97			2"	50.80

Gauge - Thickness						
Gauge	Design Thickness			Yield Strength (Fy)		Coating
	in.	mm	Mils	ksi	MPa	
20	0.0346	0.88	33	33	228	G60, G90
18	0.0451	1.15	43	33, 50	228, 345	G60, G90
16	0.0566	1.44	54	50	345	G60, G90
14	0.0713	1.81	68	50	345	G60, G90
12	0.1017	2.58	97	50	345	G90

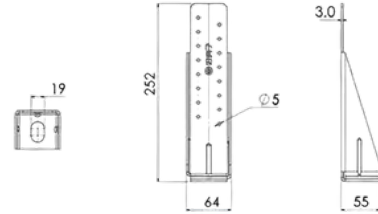
Holdown

We optimized the design of the holdowns, added ribs on the facade which prevent the deformation during the drawing process more effectively. The bottom bolt holes are integrally formed for a more precise position.



Product Specification

- Model: LSF-KB252-30
- Size: 252x64x3.0 (mm)
- Material: G50 (Brand No. SGH340-Z275)
- Galvanized Coat: Double-sided 275 g/m2

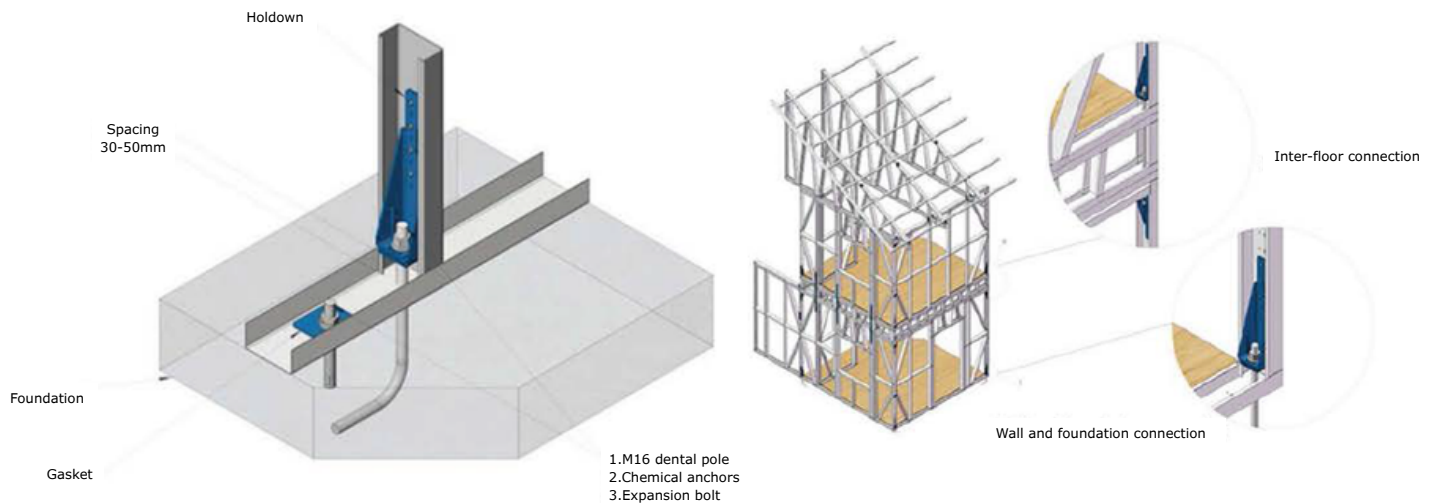


Force Description		
Model	Products	Remark
LSF-KB252-30	Holdowns	
LSF-DP50-30	40 Gasket	GB
LSF-M16	Anchor Bolts	GB
LSF-M16	Flat Washers	GB
LSF-M16	Elastic Washer	GB
LSF-M16	Hex Nuts	GB
LSF-M5.5	Hexagon Washer Head Screw	Full Recommended

Average Force: 55.8KN

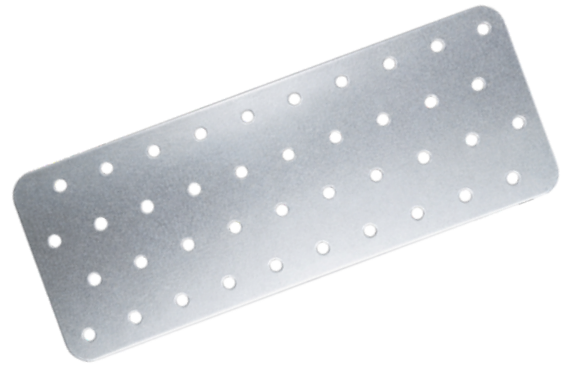
Installation

The holdowns are installed in the light steel stud which is generally used in conjunction with expansion bolts. It is used for the connection between the first floor and the foundation, Floor-to-floor, and the side is fixed on the vertical stud with the hexagonal head screw. The bottom surface is fixed with M16 anchor bolts (dental pole, chemical anchors). and leave a gap of 30-50mm for earthquake resistance.



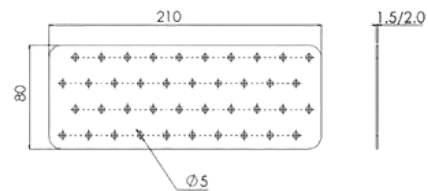
Long Moment Clip

ZB210 series Moment Clip connectors can be divided into 1.5mm and 2.0mm according to thickness. Pre-punched, misplaced, and distributed. The width of 80mm is slightly smaller than the sum of the waist heights of the two keels, which can be applied vertically and connect the two walls. Rounded corners, no harmful.



Product Specification

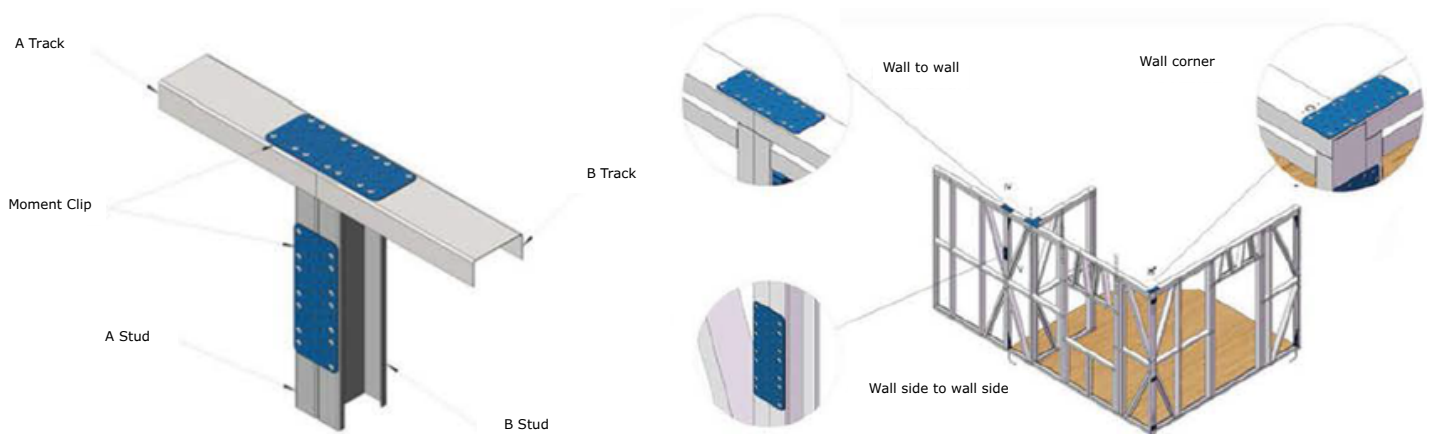
- Model: LSF-ZB210-15
- Size: 80x210x1.5
- Material: G50 (Brand No. SGH340-Z275)
- Galvanized Coat: Double-sided 275 g/m2



LSF-ZB210-15			
Model	Products	Remark	
LSF-ZB210-15	Moment Clip		
LSF-M4.8	Round Head Washer Tail Screws		
	Assembly 1	Assembly 2	Assembly 3
Number of Nails	12..8	8..6	6..6
Average Force (KN)	40.1	37.73	41.93

Installation

ZB210 series Moment Clip is used for connection the top, side and the corner of wall framing, and is fixed by a thin flat head or a round head bolt. Use no less than 6 screws at each end, evenly arranged. In general, the lower layer is 2.0 mm thick and the upper layer is 1.5 mm thick. ZB121 can be used instead of some less demanding connections.



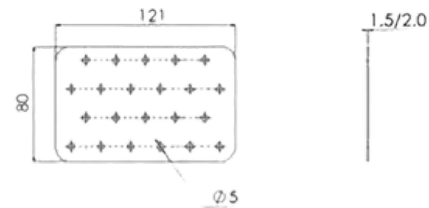
Short Moment Clip

ZB121 series Moment Clip are divided into 1.5mm and 2.0mm thickness. Pre-punch holes. 80mm width, a little bit narrow than 2 flange size. Attach the ZB121 Moment Clip to the flange and use round head screws to fasten them.



Product Specification

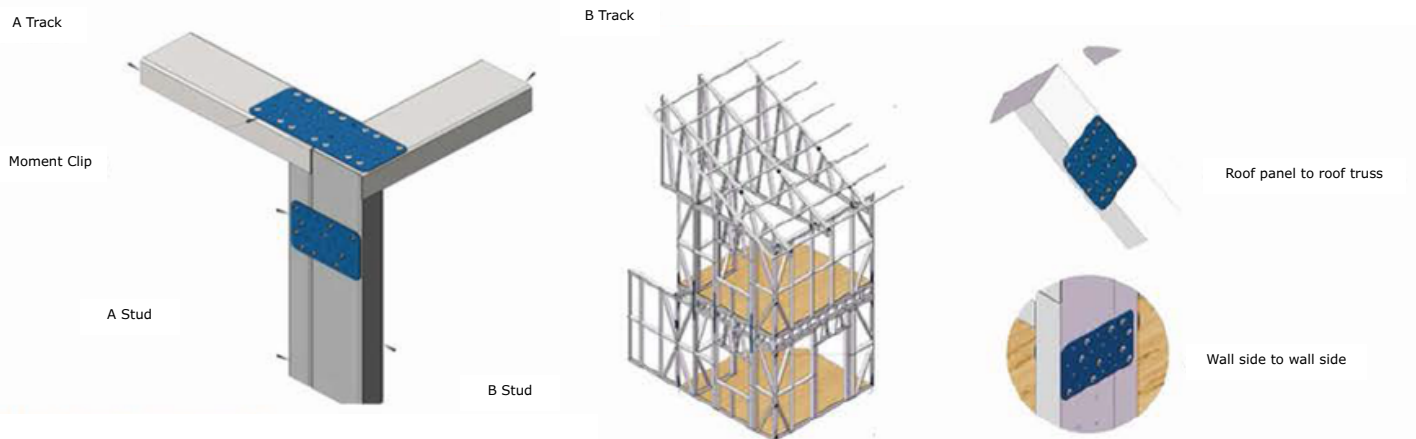
- Model: LSF-ZB121-15
- Size: 80x121x1.5
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-ZB121-15		
Model	Products	Remark
LSF-ZB121-15	Moment Clip	
LSF-M4.8	Round Head Washer Tail Screws	
	Assembly 1	Assembly 2
Number of Nails	6-4	4-4
Average Force (KN)	37	33.87

Installation

ZB121 series Moment Clip is used for connecting the corner of wall framing, and connecting the truss and the roof panel. the Moment Clip is fixed by at least 4 thin flat head or at least 4 round head bolt on each side. In general, the lower layer apply 2.0 mm thick and the upper layer apply 1.5 mm thick. ZB210 can be used instead of some less demanding connections.



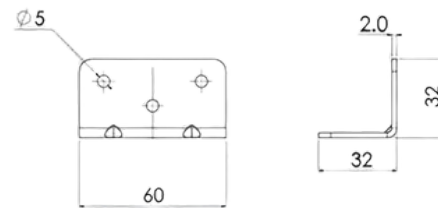
Moment Clip (Support Clip)

The thickness of support clip is 2.0mm. Pre-punch with 3 dimple holes on each side. A rib on the corner in order to enhance the anti-bending capacity. Rounded surface at each corner, beautiful and elegant.



Product Specification

- Model: LSF-JM60-20
- Size: 60x32x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-JM60-20		
Model	Products	Remark
LSF-JM60-20	Support Clip	
LSF-M4.8	Round Head Washer Tail Screws	
		Assembly 1
Number of Nails		3..3
Average Force (KN)		18.88

Installation

Support clips are used in multiple construction projects, specifically in conjunction with end side of wall. 3 support clips are recommended to install on inward corner of walls. Combine support clip with ZB121 series to enhance the integrity of the wall. Make the fasten screws in shear resistance state as much as possible if the support clip installed on other place.

Roof panel stud

Support Clip

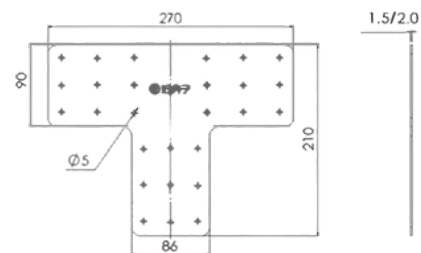
Roof truss

Inward corner connection

Roof panel to roof truss

T-Clip

The T-Clip is designed to provide a strong and reliable connection between roof trusses, wall panels, and structural framing components in light steel framing systems. Its engineered shape improves load distribution while allowing fast and accurate installation on site. Manufactured from high-quality galvanized steel, the T-Clip offers excellent corrosion resistance and long-term durability for residential and commercial applications.



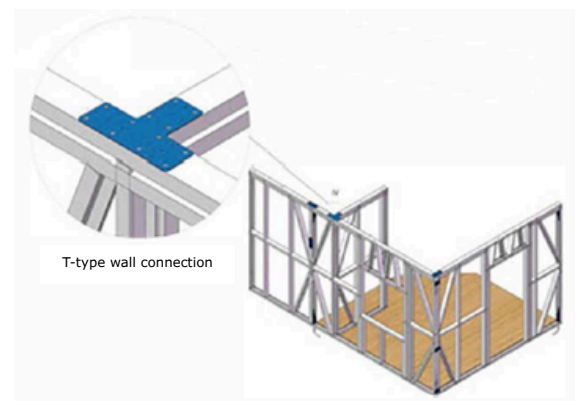
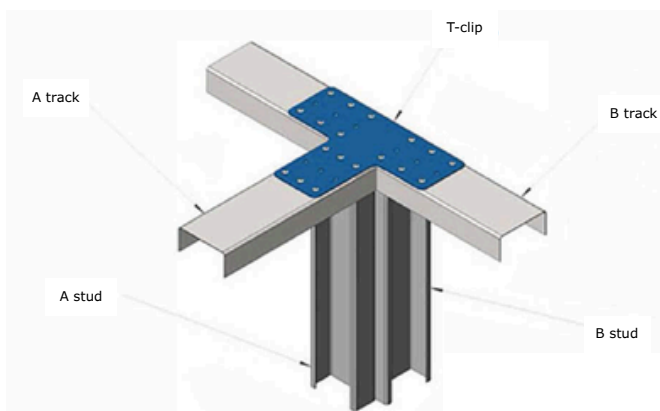
Product Specification

- Model: LSF-TX270-15
- Size: 270x10x1.5 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2

LSF-TX270-15			
Model	Products	Remark	
LSF-TX270-15	T Clip		
LSF-M4.8	Round Head Washer Tail Screws		
	Assembly 1	Assembly 2	Assembly 3
Number of Nails	8..4	12..6	18..9
Average Force (KN)	37.22	50.72	51.04

Installation

The T-Clip is used to connect intersecting framing members such as trusses, wall studs, tracks, and panel junctions. It is installed using self-drilling or wafer-head screws through the pre-punched holes for secure fastening. The clip can be applied on one or both sides of the connection depending on structural requirements and design conditions. Proper alignment before fastening ensures maximum strength, stability, and connection performance.



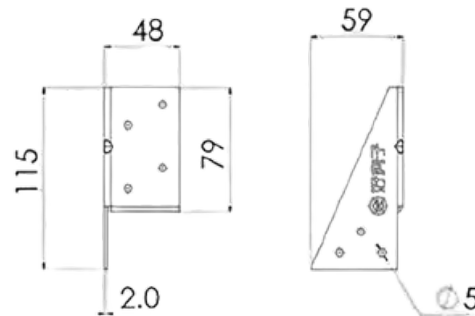
Clip Angle (Roof Truss)

The Clip Angle has been optimized to make the connection between roof truss and wall framing stronger. The siding is designed wider, so that these angles can be easily fastened by screw to the framing. The clip angle have two parts, which can be used as needed.



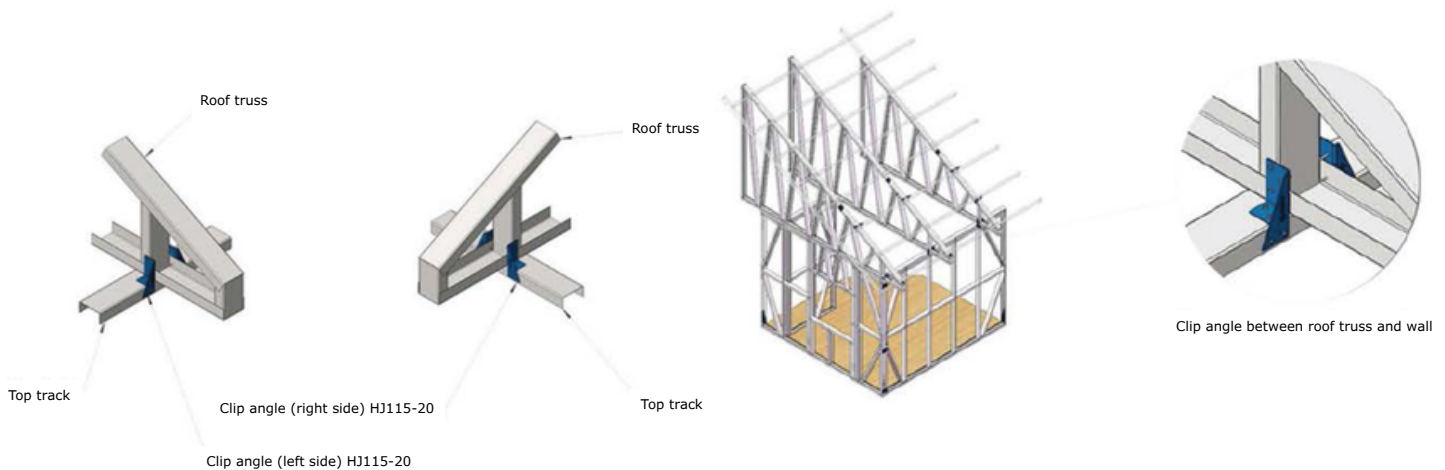
Product Specification

- Model: LSF-HK115-20
- Size: 115x59x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m²



Installation

Generally used in the connection of wall and truss, can be used on the inner wall or outer wall according to the necessities. It is fixed by a thin flat head or a round flat head Waltz screw to fix and connect to the truss and the upper part of the wall. Where there are no interference with other components on both sides, it can be fixed with a hexagonal drill-tail screw.

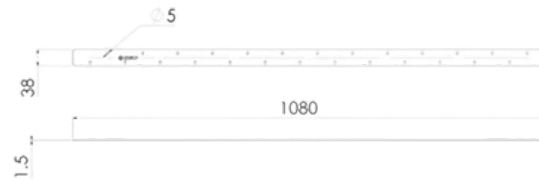


Flat Strap

The Flat Strap is a steel bracing component used to strengthen light steel framing systems by resisting tension forces and improving overall structural stability. It is manufactured from galvanized steel for durability and corrosion resistance.

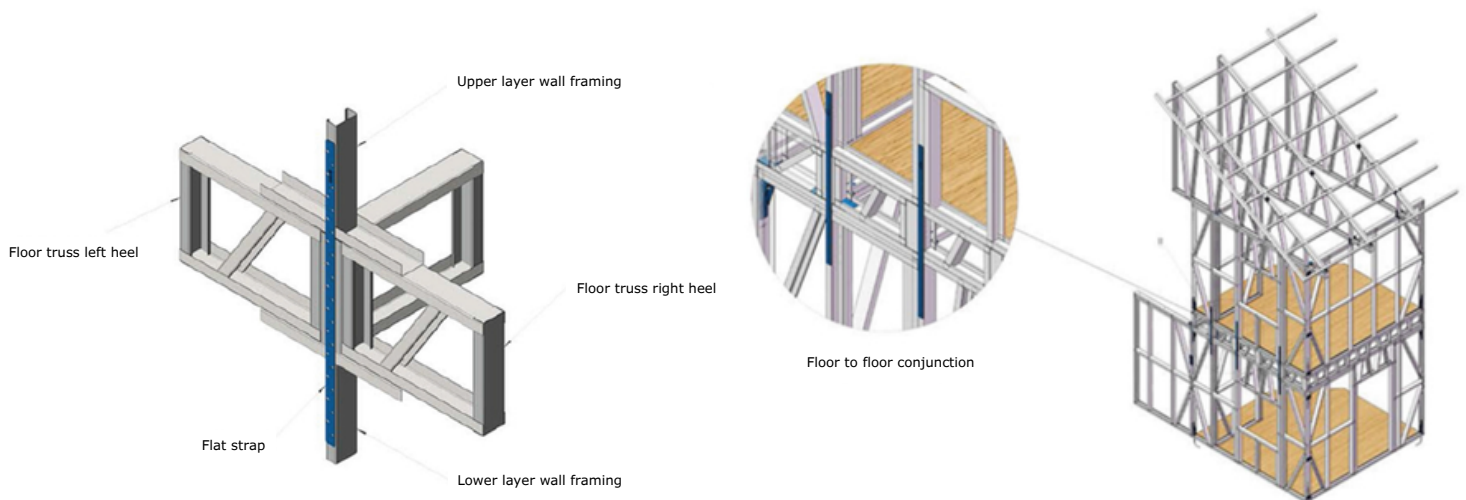
Product Specification

- Model: LSF-KFD1080-15
- Size: 1080x38x1.5 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m²



Installation

The Flat Strap is fastened to studs, tracks, joists, or trusses using self-drilling screws to provide bracing and load transfer. It can be installed vertically, horizontally, or diagonally, depending on the structural design requirements.



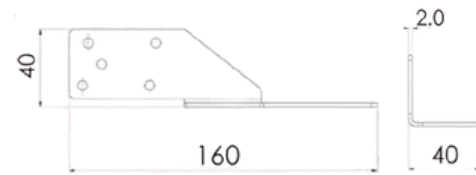
Seismic and Hurricane Clip

The Seismic and Hurricane Clip is designed to provide a secure connection between framing components in areas exposed to high wind or seismic forces. It helps improve structural stability and load transfer while offering long-term durability through galvanized steel construction.



Product Specification

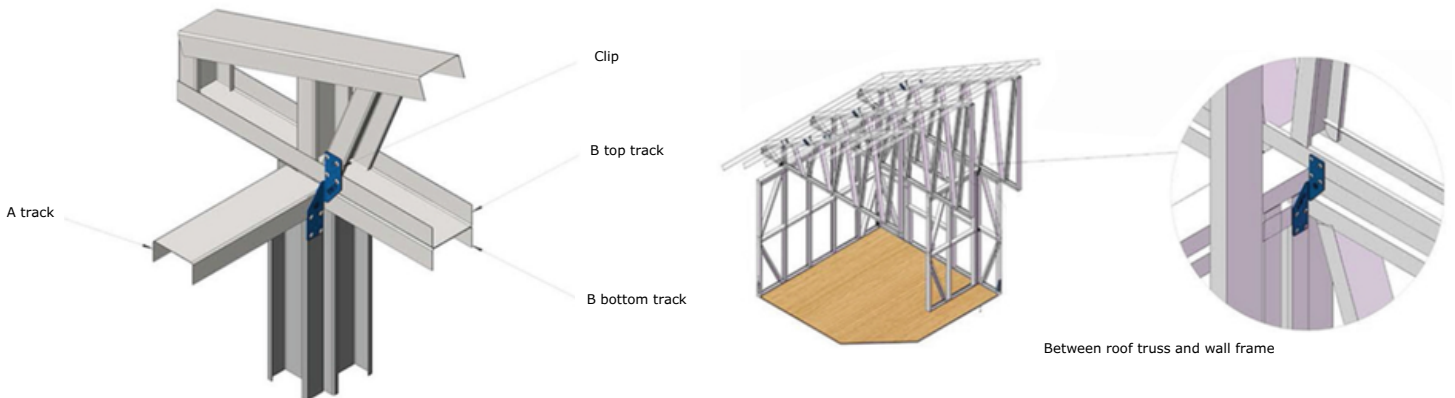
- Model: LSF-KF160-20
- Size: 160x40x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-KF160-20		
Model	Products	Remark
LSF-KF160-20	Hurricane Clip	
LSF-M4.8	Round Head Washer Tail Screws	
		Assembly 1
Number of Nails		5-5
Average Force (KN)		13.03

Installation

The Seismic and Hurricane Clip is fastened to intersecting framing members using self-drilling screws. It is commonly used to secure roof trusses, rafters, joists, and wall framing connections where additional uplift and lateral load resistance is required. Install according to the structural design and engineering specifications.



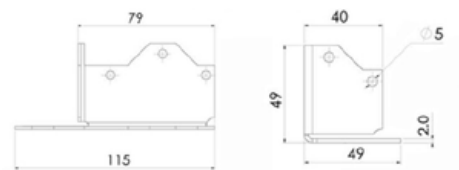
Clip Angle (Wall & Roof Truss)

The Clip Angle (Wall & Roof Truss) is designed to create a strong connection between wall panels and roof trusses in light steel framing systems. Manufactured from galvanized steel, it provides reliable load transfer, improved structural stability, and long-term corrosion resistance.



Product Specification

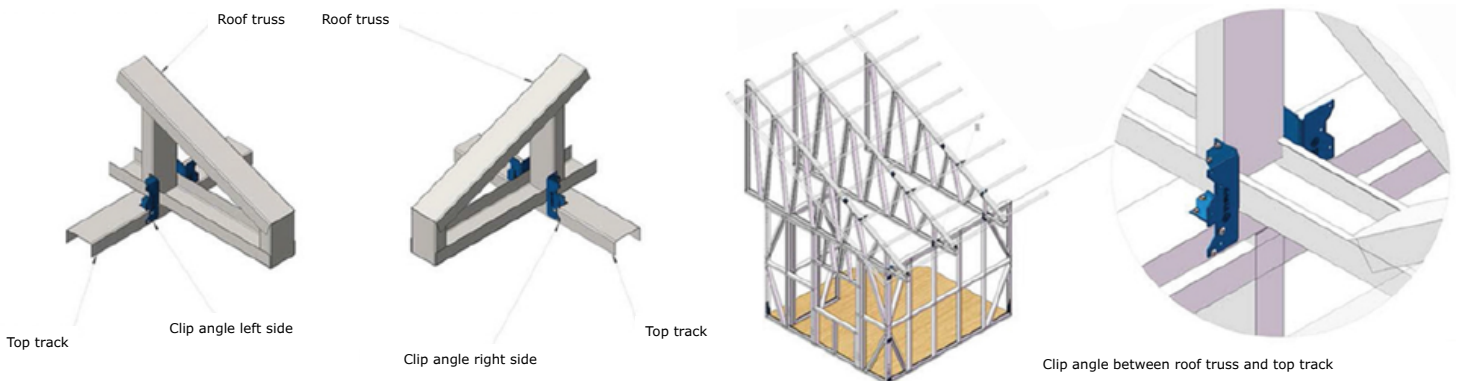
- Model: LSF-HJ115-20
- Size: 115x79x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-HJ115-20		
Model	Products	Remark
LSF-HJ115-20	Clip Angle	
LSF-M4.8	Round Head Washer Tail Screws	
		Assembly 1
Number of Nails		5-5
Average Force (KN)		13.03

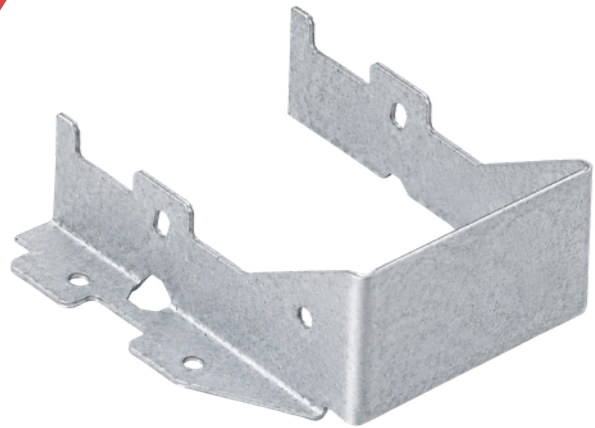
Installation

The Clip Angle is fastened to the wall top track and roof truss using self-drilling screws. It is used at wall-to-truss connections to secure framing members and ensure proper load transfer. Install according to the project drawings and engineering specifications.



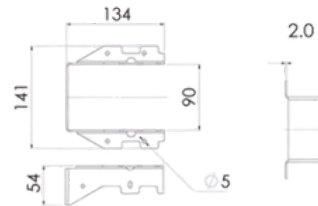
Truss Support Clip

The Truss Support Clip is designed to provide a secure connection between floor trusses, wall panels, and other structural framing members. Manufactured from galvanized steel, it improves load transfer, connection strength, and overall structural stability.



Product Specification

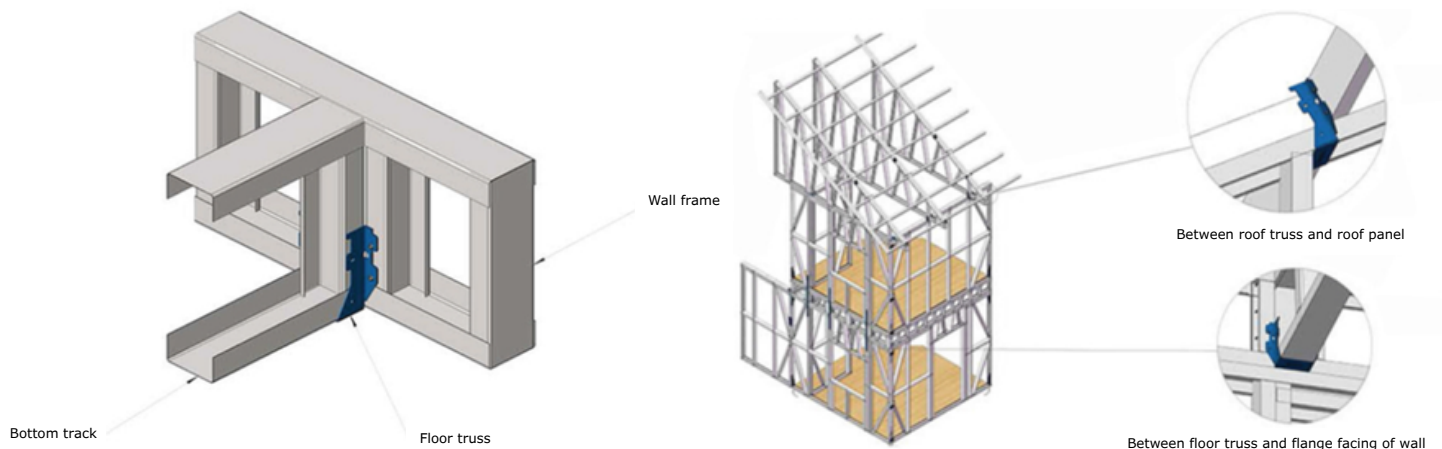
- Model: LSF-LT141-20
- Size: 141x134x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-LT141-20		
Model	Products	Remark
LSF-LT141-20	Truss Support Clip	
LSF-M4.8	Hexagon Washer Tail Screws	
		Assembly 1
Number of Nails		Full
Average Force (KN)		14.63

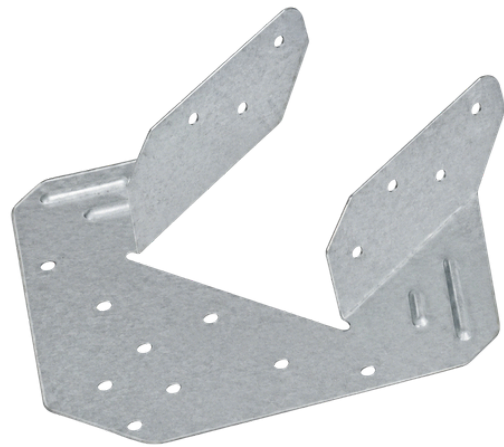
Installation

The Truss Support Clip is fastened to the supporting framing member and truss using self-drilling screws. It is commonly used where floor trusses or framing members require additional support and reinforcement. Install according to the project drawings and engineering specifications.



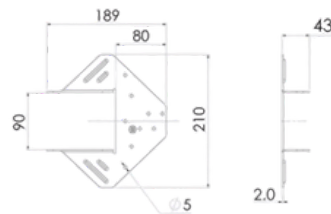
Hurricane Tie

The Hurricane Tie is designed to provide a strong connection between roof trusses and wall framing, helping resist uplift forces caused by high winds and severe weather conditions. Manufactured from galvanized steel, it offers reliable structural performance and long-term corrosion resistance.



Product Specification

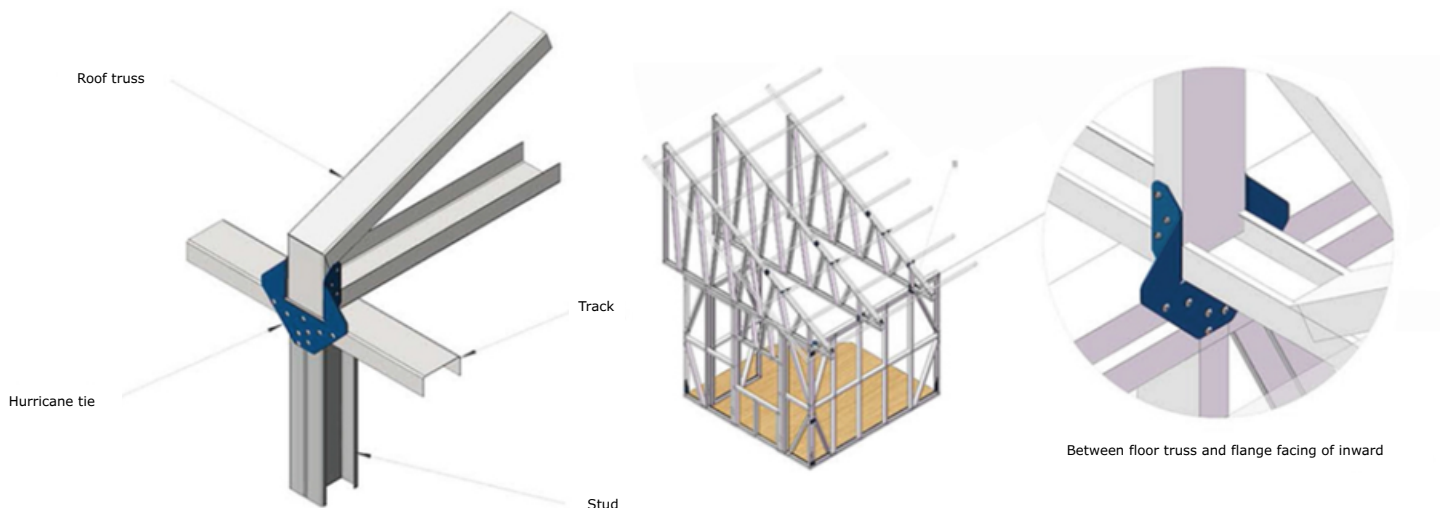
- Model: LSF-LX210-20
- Size: 210x189x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-LX210-20		
Model	Products	Remark
LSF-LX210-20	Hurricane Tie	
LSF-M4.8	Round Head Washer Tail Screws Hexagon Washer Tail Screws	
		Assembly 1
Number of Nails		Full
Average Force (KN)		14.63

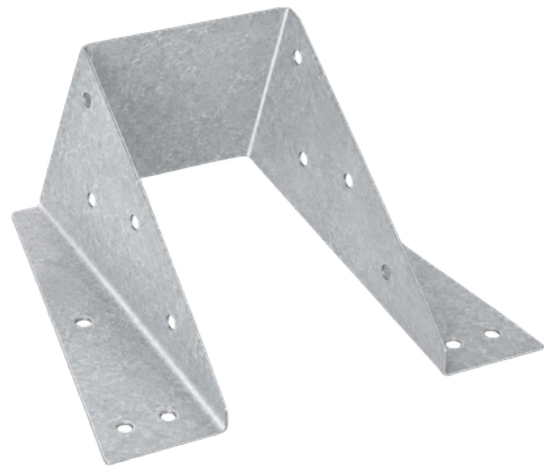
Installation

The Hurricane Tie is fastened to the roof truss and wall framing using self-drilling screws. It is installed at truss-to-wall connections to improve uplift resistance and ensure secure load transfer from the roof structure to the wall system. Install according to the project drawings and engineering specifications.



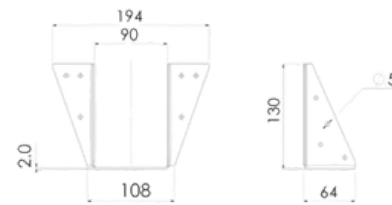
Roof Hanger

The Roof Hanger is designed to provide a secure connection between roof framing members and supporting structural components. Manufactured from galvanized steel, it helps transfer loads efficiently while improving the strength and stability of the roof system.



Product Specification

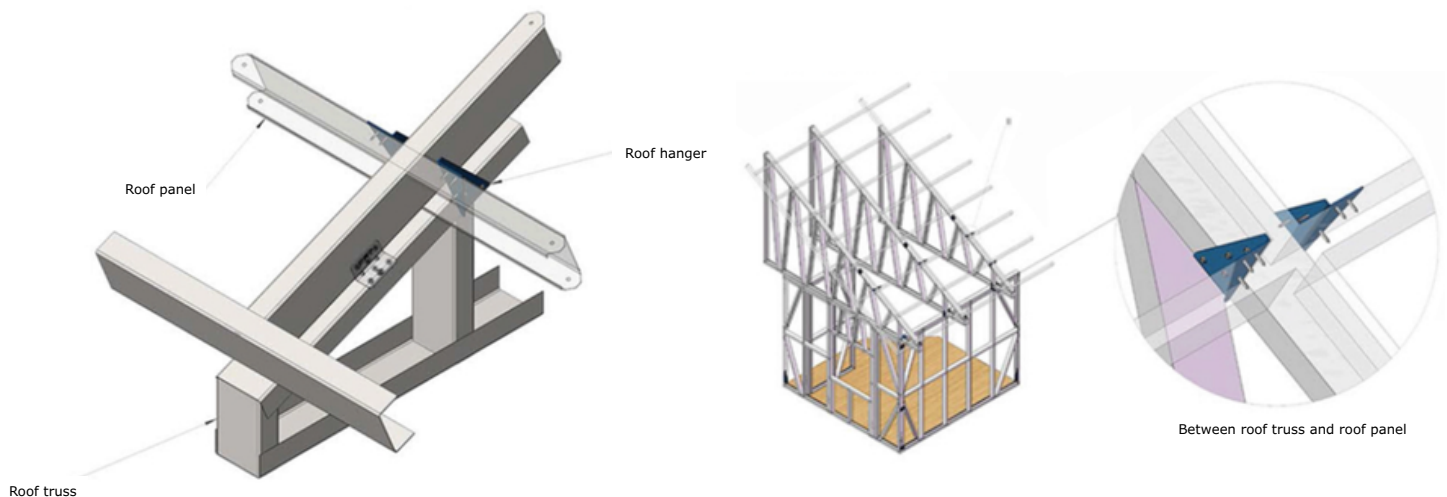
- Model: LSF-WD194-20
- Size: 194x130x2.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m2



LSF-WD194-20		
Model	Products	Remark
LSF-WD194-20	Roof Hanger	
LSF-M4.8	Hexagon Washer Tail Screws	
		Assembly 1
Number of Nails		Full
Average Force (KN)		17.2

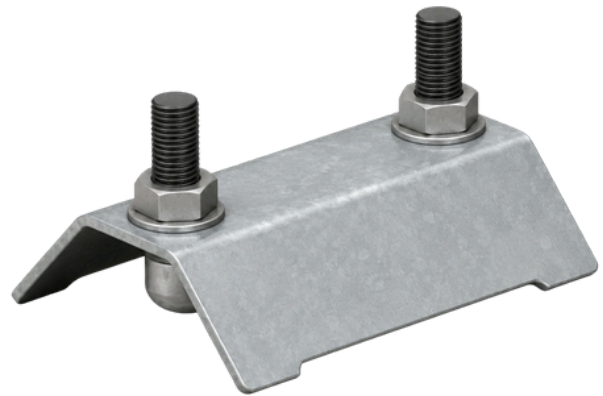
Installation

The Roof Hanger is fastened to the supporting member and roof framing using self-drilling screws. It is commonly used to support roof joists, rafters, or truss members where a strong and reliable connection is required. Install according to the project drawings and engineering specifications.



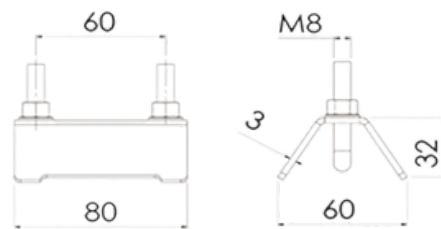
Bracing Strap Tensioner

The Bracing Strap Tensioner is used to tension and secure flat strap bracing in light steel framing systems. It helps maintain proper brace tension, improving wall stability and overall structural performance. Manufactured from galvanized steel for durability and corrosion resistance.



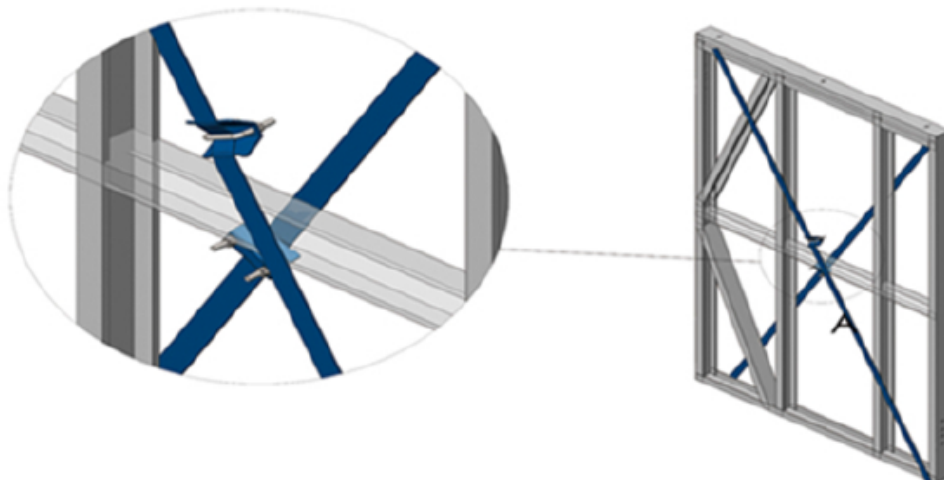
Product Specification

- Model: LSF-LD80-30
- Size: 80x60x32x3.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m²



Installation

The Bracing Strap Tensioner is installed inline with the bracing strap and adjusted to achieve the required tension. Once properly tightened, it secures the strap and helps maintain the designed bracing performance. Install according to the project drawings and engineering specifications.



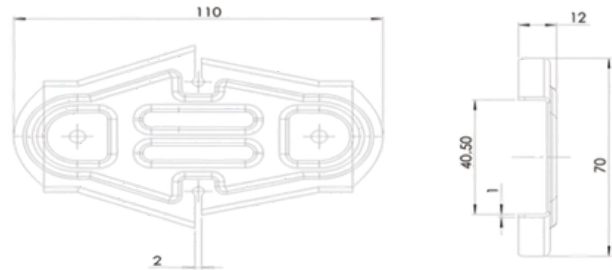
Grommet Bracket

The Grommet Bracket is used to secure and support wall panels at base connections in light steel framing systems. Manufactured from galvanized steel, it provides a strong, durable connection while helping maintain proper alignment and stability of the framing structure.



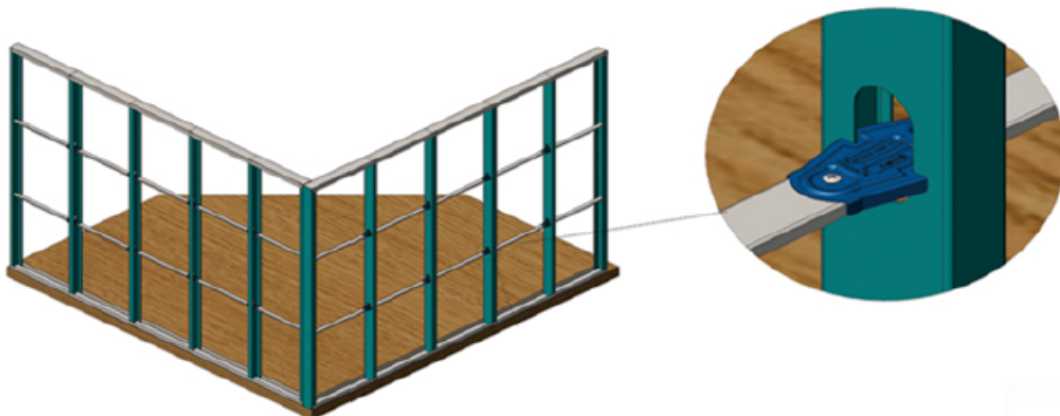
Product Specification

- Model: LSF-CXK110-10
- Size: 110x70x1.0 (mm)
- Material: Q345 (Brand No. SGH340-Z275)
- Galvanized Coating: Double-sided 275 g/m²



Installation

The Grommet Bracket is fastened to the floor slab or supporting structure and connected to the wall panel using self-drilling screws or approved anchors. It is typically installed at the base of wall panels to provide a secure hold-down connection and improve overall structural stability. Install according to the project drawings and engineering specifications.



Service Hole Grommet

This plastic service hole grommet is used in light steel framing (LSF) to protect electrical cables and pipes passing through stud openings, preventing damage from sharp steel edges and providing a clean, professional finish.



Product Specification

- Model: LSF-SHPB
- Material: High-density polyethylene (HDPE)

Installation

The grommet is installed by aligning it with the pre-punched hole in the LSF stud and pressing it into place until the retaining tabs lock onto the steel. Once seated, electrical conduits or pipes can be passed through the opening safely without additional fasteners or tools.



Self Drilling Screw

The Self-Drilling Screw is designed for fast and secure connections in light steel framing systems. Its integrated drill point eliminates the need for pre-drilling, allowing for efficient installation while providing strong and reliable fastening performance.



Product Specification

- Model: LSF-M4.8-DC
- Size: 4.8x19 (mm)
- Threads: 24 TPI
- Material: C1022

LSF-M4.8-DC		
Dia	Tension min (KN)	Shear min (kn)
LSF-M4.8	10.0	6.28

Installation

Position the screw at the required connection point and drive it through the steel members using a PH2 bit. The self-drilling tip cuts through the steel and forms the connection in a single operation. Select the appropriate screw length and point type according to the material thickness and application requirements.

Point No:



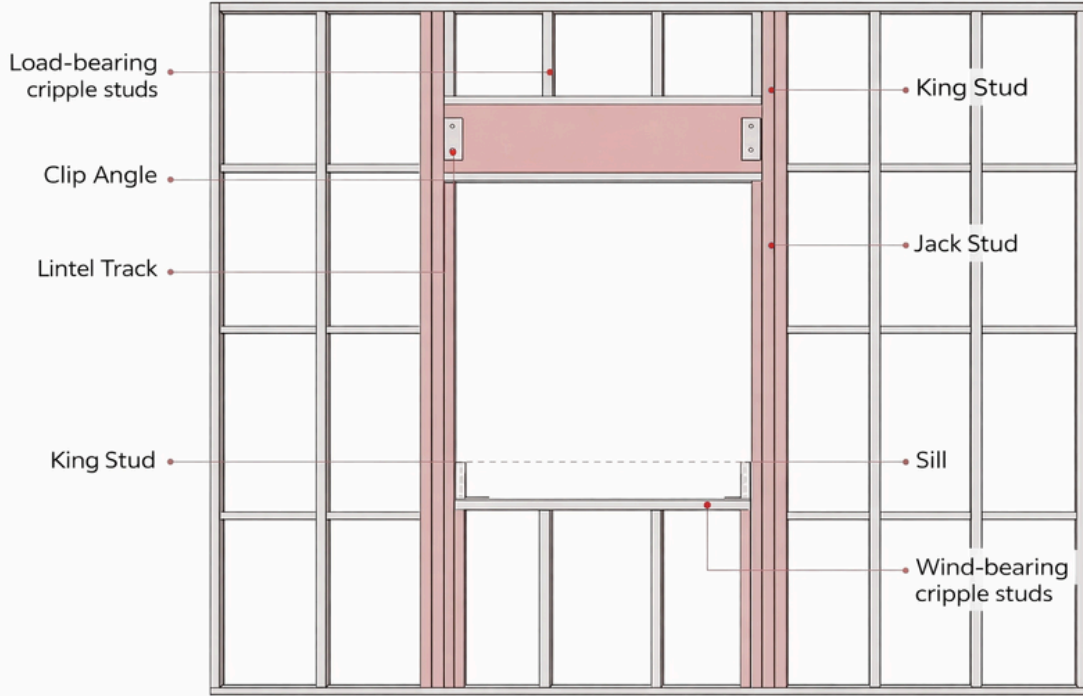
Surface:



Bit: PH2



Framing Wall Openings

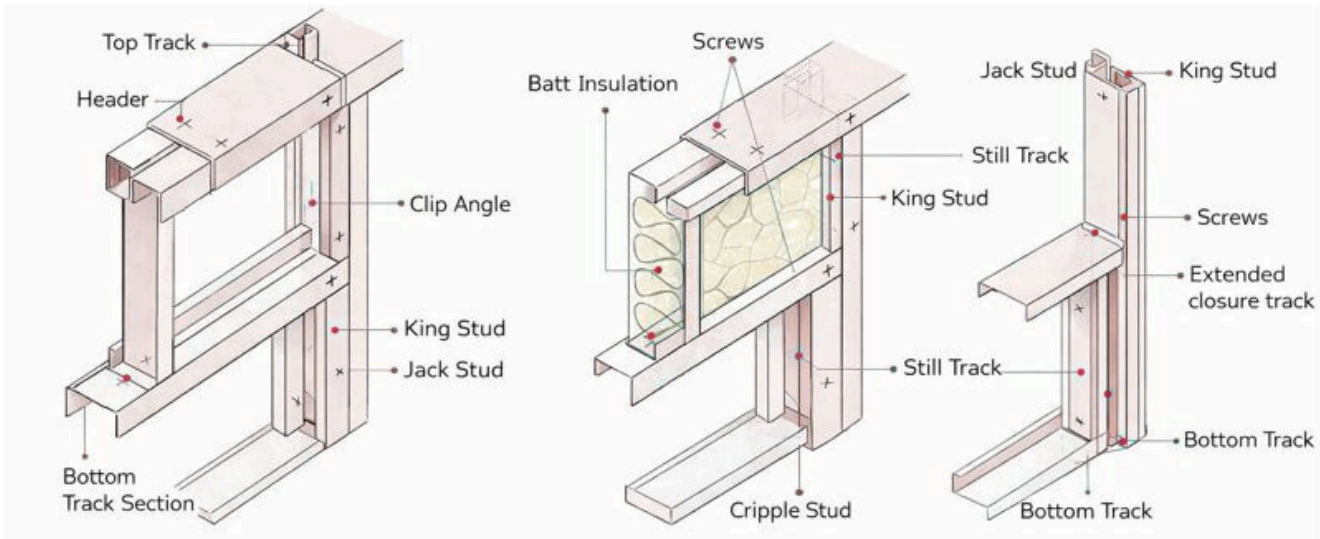


The window sill can be supported either by a clip angle or by a cripple stud.

Window Still Framing

Window Still Framing

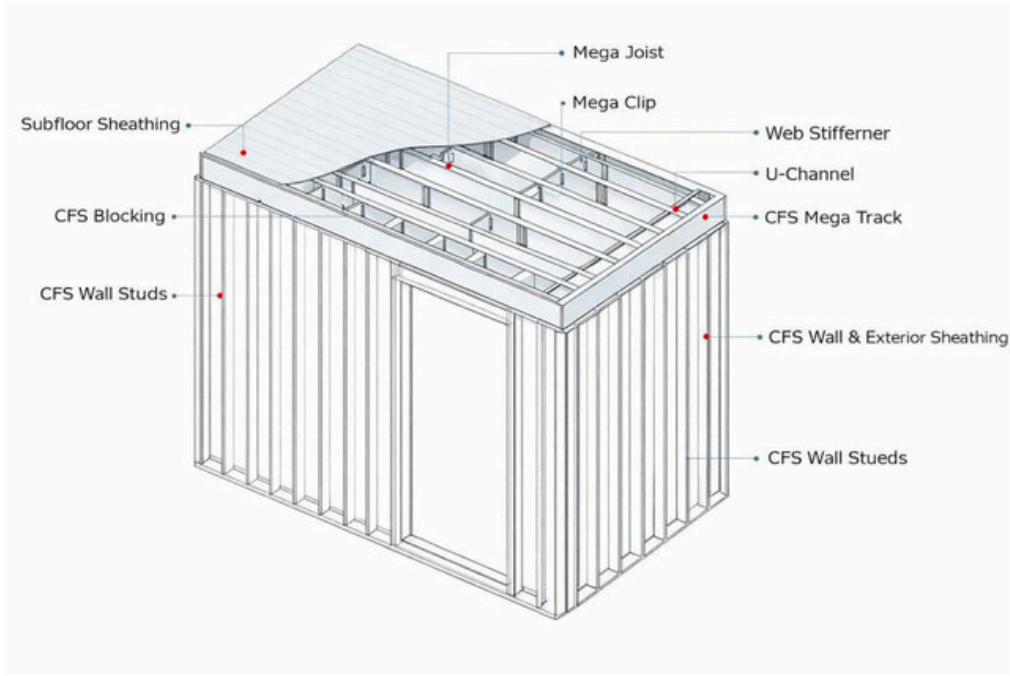
Window Still Framing



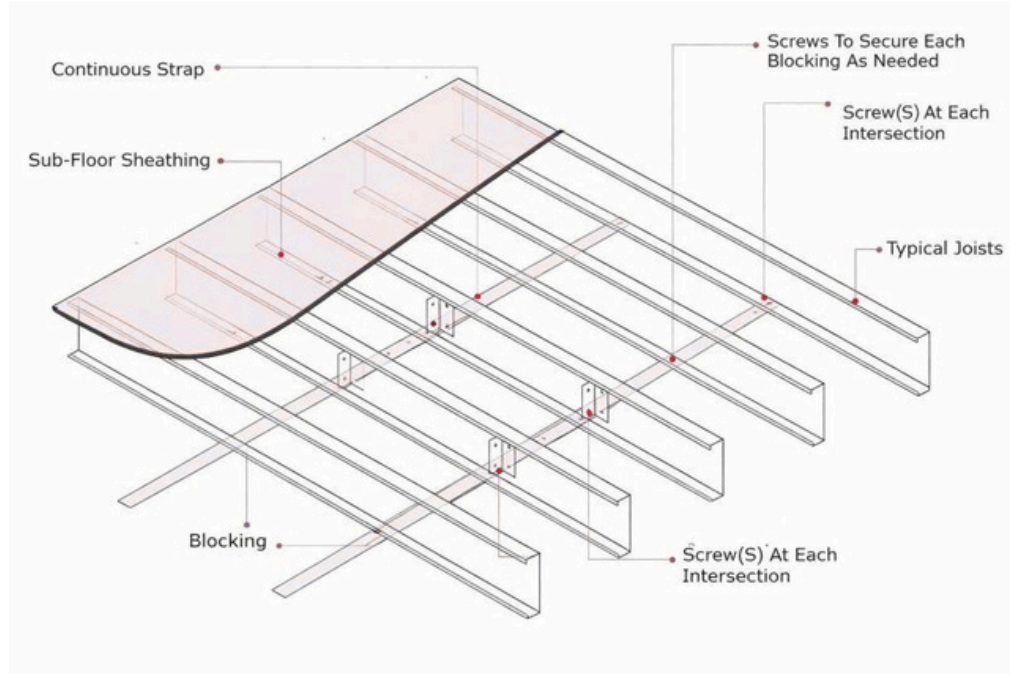
www.lsfpros.com

Typical LSF Floor Joist Details

Floor Framing

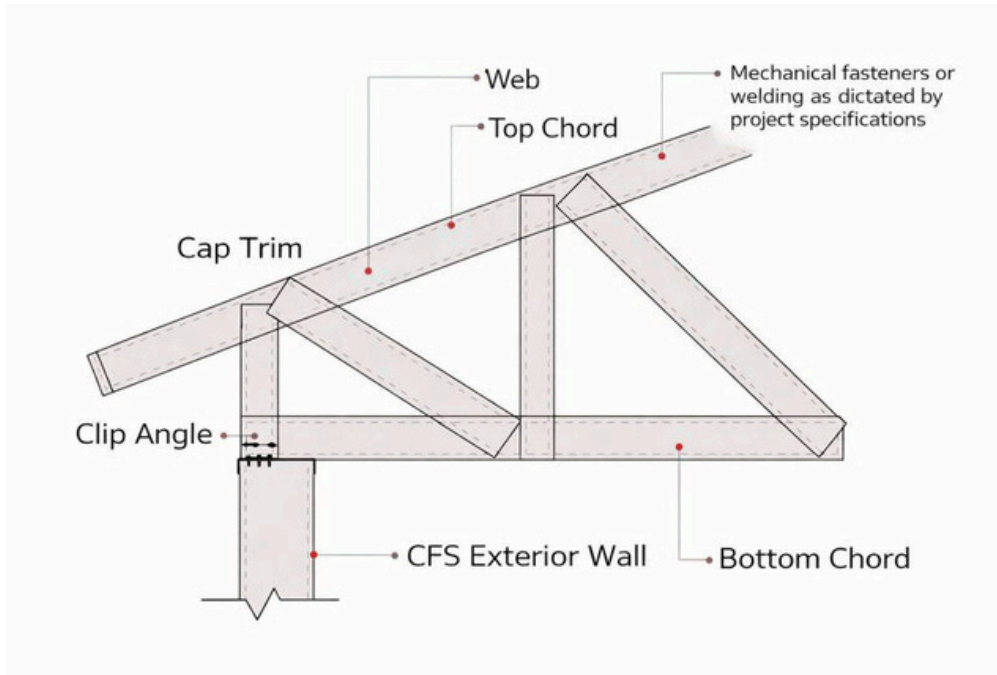


Block and Strap Bridging

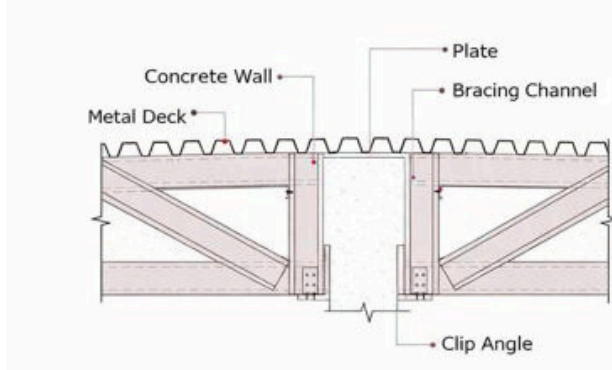


Typical LSF Roof Truss Details

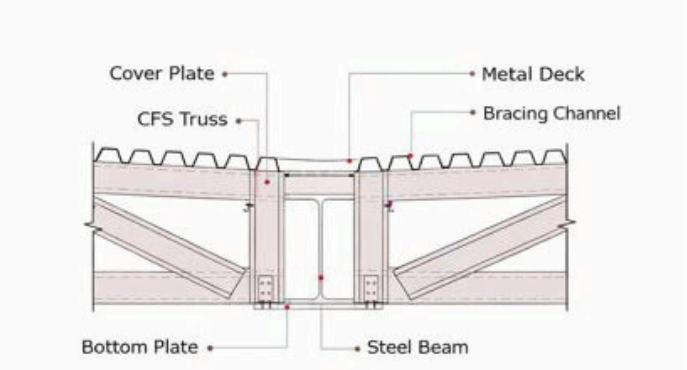
Floor Framing



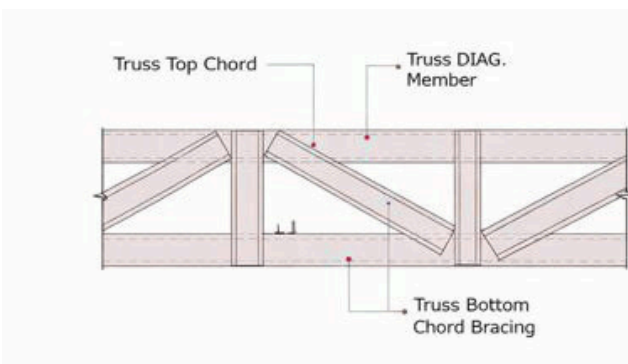
CFS Boxed Truss at Interior Concrete Wall



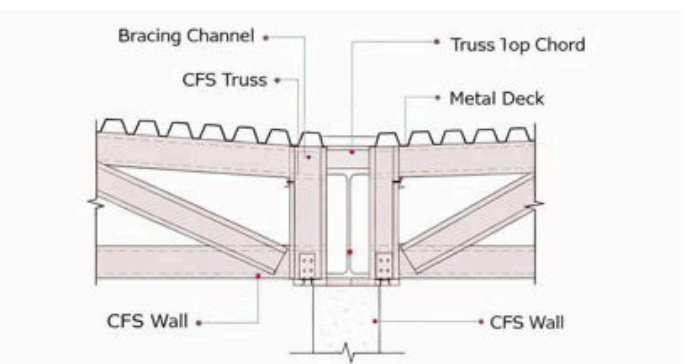
CFS Boxed Truss Bearing at Interior Corridor Beam



Typical Boxed Truss Chord Bracing



CFS Boxed Truss Bearing at Interior CFS Wall



Lip Stiffener Length Design

- The lip length on a stud or joist will be related to the flange width as listed in the Table below.

Design Lip Length for Studs and Joists				
Section	Flange Width		Lip Length	
	in.	mm	in.	mm
S162	1.625	41	0.275 - 0.472	7 - 12
S200	2.000	51	0.393 - 0.787	10 - 20

Steel Thickness Design

- Products are cold-formed to shape from sheet steel with a steel thickness listed in below Table. Product thickness will be referenced to the corresponding designation thickness.

Steel Thickness Table				
Designation Thickness (mil)	Minimum Thickness (in)	Design Thickness (in)	Design Inside Corner Radii (in)	Gauge
30	0.0295	0.0280	0.0420	22
33	0.0329	0.0346	0.0764	20
43	0.0428	0.0451	0.0712	18
54	0.0538	0.0566	0.0849	16
68	0.0677	0.0713	0.1069	14
97	0.0966	0.1017	0.1525	12

Web Depth (h) to Thickness (t) Ratios

Mil Thickness	33 mil		43 mil		54 mil		68 mil		97 mil	
Design thickness (in)	0.0346		0.0451		0.0566		0.0713		0.1017	
Inside Bend Radius (in)	0.0764		0.0712		0.0849		0.1069		0.1525	
Depth (in)	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t	h (in)	h/t
1.625	1.403	41	1.392	31	1.342	24	1.269	18	1.117	11
2.5	2.278	66	2.267	50	2.217	39	2.144	30	1.992	20
3.625	3.403	98	3.392	75	3.342	59	3.269	46	3.117	31
4	3.778	109	3.767	84	3.717	66	3.644	51	3.492	34
6	5.778	167	5.767	128	5.717	101	5.644	79	5.492	54
8	7.778	225	7.767	172	7.717	136	7.644	107	7.492	74
10	9.778	-	9.767	217	9.717	172	9.644	135	9.492	93
12	11.778	-	11.767	-	11.717	207	11.644	164	11.492	113

Material Specifications

- Structural and Non-Structural members are coated to meet the minimum code requirements. Products manufactured by Canadian Panel Tech meet the requirements of the following specifications:

Product Type	Material Specifications	Min Yield (ksi)	Min Tensile (ksi)	Minimum Metallic Coating Designation
Non-structural Products ASTM C645	ASTM A653, 55 Grade 33	33	45	G40
	ASTM A1003, Grade 33 (NS33)	33	...	G401, A401, AZ502, GF303, TI-254, T2-1004, 60G/60GS
Structural Products ASTM C955 (CP60 Coatings)	ASTM A653, 55 Grade 33	33	45	G60
	ASTM A1003, Grade 33 Type H (ST33H)	33	45	G601, A601, AZ502, GF303
	ASTM A653, 55 Grade 50 Class 1	50	65	G60
	ASTM A1003, Grade 50 Type H (STS0H)	50	65	G601, A601, AZ502, GF303
	ASTM A653 HSLA Grade 50	50	65	G60

Coating Specification

- The base steel thickness can be determined from measuring the coated thickness and deducting the following metallic coating thickness
- Products comply with the minimum metallic Coating weight [mass] requirements as shown in table below.

Coating Designation (Imperial)	Coating Designation (Metric)	Coating Thickness (in)	Coating Thickness (mm)
G40	Z120	0.0007	0.017
G60	Z180	0.0010	0.025
G90	Z275	0.0015	0.039
AZ50	AZM150	0.0016	0.040
ZA55	AZM165	0.0017	0.044

Coating Weight [Mass] Requirement (Metallic Coating)	
Member Type	Coating Designation
Structural	G60 [Z180] AZ50 [AZM150]
Non-Structural	G40 [Z120] AZ250 [AZM150]

Design Yield Stress

Design Yield Stress		
Designation Thickness	Designation Thickness	
	(ksi)	(Mpa)
18	33	230
33	33	230
43	33	230
54	50	345
68	50	345
97	50	345

LSF PRO products are manufactured from galvanized steel that is cold-formed from steel conforming to AISI 5220 or AISI 5240, as applicable, and in accordance with ASTM A653/A653M. The material's design yield strength is determined based on member thickness, as indicated in the table below. Non-structural members may utilize a design yield strength exceeding 33 ksi (230 MPa), provided the product complies with the applicable requirements of ASTM C645.



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