Heavy Duty Framework

Heavy Duty Frameworks

User Manual

Read in conjuction with
Kwiktech Build Guide and
Kwiktech Tips & Tricks

Designed by

kwiktech.

Engineered by

SBEC. SCHMIDT BENTLEY ENGINEERING CONSULTING

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Rev 0

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General Arrangement Strong Frame

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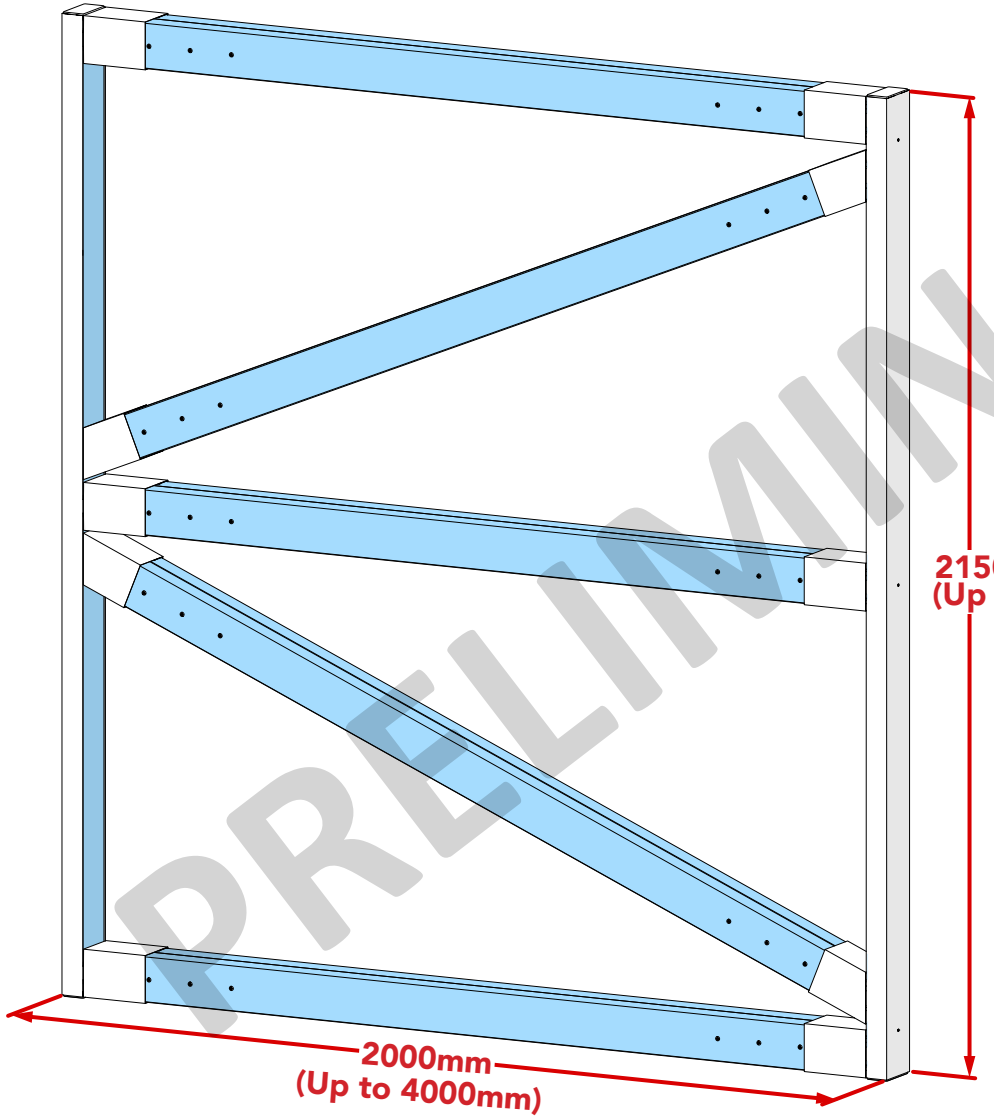

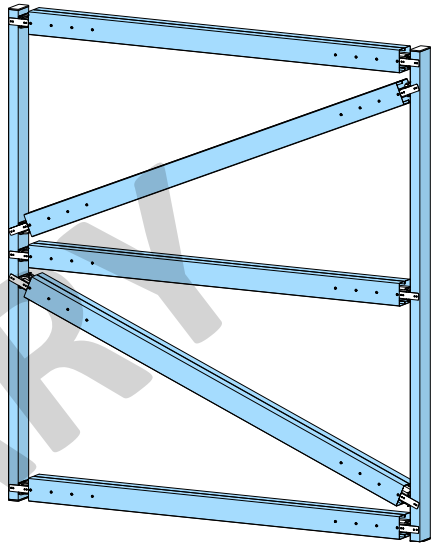

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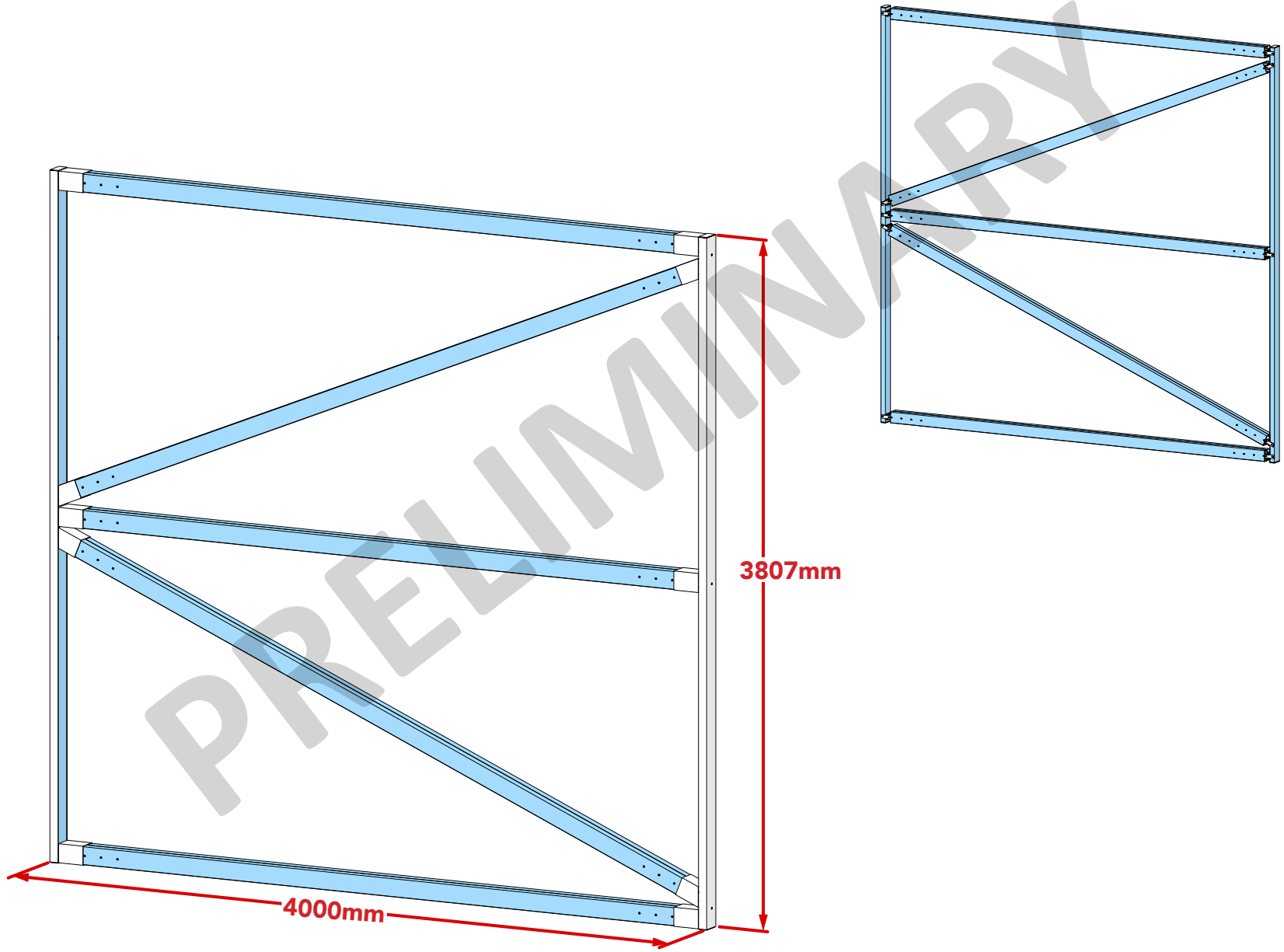
KWIKTECH KITS

ITEM	LENGTH	COLOUR	QUANTITY	RESELLER RPICE
Kwiktech DIY Truss Kit (NOTE: Some items will not be used)	-	-	1	



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Sizing Guide

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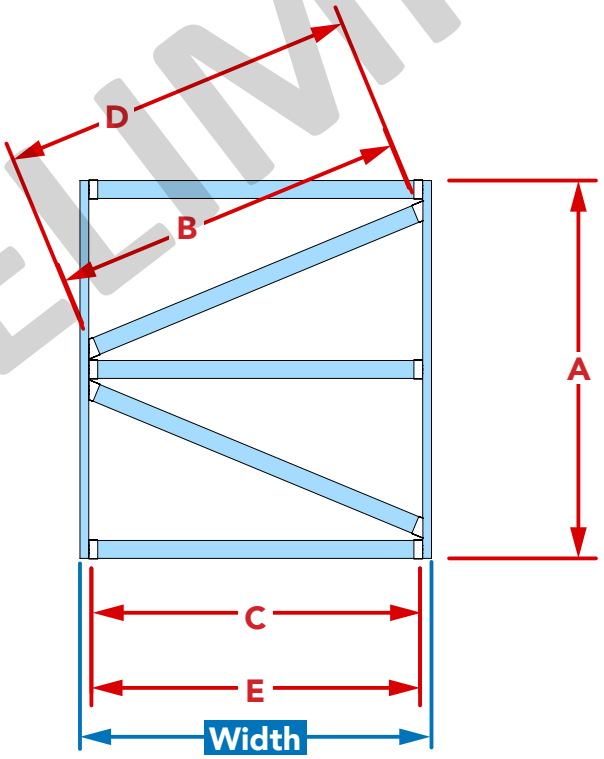
STEEL MEMBERS SIZING TABLE

Dimension ID	Steel Type	2.0m Width	2.1m Width	2.2m Width	2.3m Width	2.4m Width	2.5m Width	2.6m Width	2.7m Width	2.8m Width	2.9m Width	3.0m Width	3.1m Width	3.2m Width	3.3m Width	3.4m Width	3.5m Width	3.6m Width	3.7m Width	3.8m Width	3.9m Width	4.0m Width
A (x2)	100x50x2 RHS	2150	2233	2316	2399	2481	2564	2647	2730	2813	2896	2978	3061	3144	3227	3310	3393	3475	3558	3641	3724	3807
B (x2)	100C10 Purlin	1956	2064	2172	2281	2389	2497	2605	2714	2822	2930	3038	3146	3255	3363	3471	3579	3688	3796	3904	4012	4121
C (x3)	100C10 Purlin	1800	1900	2000	2100	2200	3200	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800
D (x2)	38x25x1.2 RHS	2026	2134	2242	2351	2459	2567	2675	2784	2892	3000	3108	3216	3325	3433	3541	3649	3758	3866	3974	4082	4191
E (x3)	38x25x1.2 RHS	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800



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Bill of Materials

Heavy Duty Frameworks

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NON KWIKTECH ITEMS

ITEM	ITEM ID #	ASSEMBLY ID #	LENGTH	COLOUR	QUANTITY	RESELLER RPICE
RHS 100x50x2.0mm	A		Refer to Steel Member Sizing Table on Page 3	Galv	2	
100C10 Purlin	B	1			4	
100C10 Purlin	C	2			6	
RHS 38x25x1.2mm	D	1			4	
RHS 38x25x1.2mm	E	2			6	

FLASHINGS

ITEM	ITEM ID #	LENGTH	COLOUR	QUANTITY	RESELLER RPICE
Horizontal End Outer Cover - KT-HDF-01	FL 1	150	Customers Choice	6	
Horizontal End Inner Cover - KT-HDF-02	FL 2	150		6	
Top Diagonal Brace Outer Cover - KT-HDF-01	FL 3	150		2	
Top Diagonal Brace Inner Cover - KT-HDF-02	FL 4	150		2	
Bottom Diagonal Brace Outer Cover - KT-HDF-01	FL 5	150		2	
Bottom Diagonal Brace Outer Cover - KT-HDF-02	FL 6	150		2	
Side Post Exterior Flashings - KT-HDF-03	FL 7	Same as A		2	
100x50 Plastic Post Cap		100	Black	4	
				Sub-Total	
				GST	
				Shipping	
				Total Cost	

Note: Refer to page 7 for flashing details.

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Materials List

Heavy Duty Frameworks

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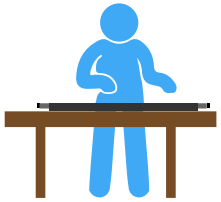
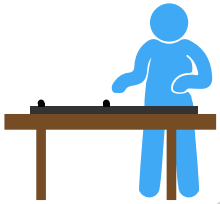
Build Preparation

Rail Inserts



Extra Strong Rails



Universal Connectors

PRELIMINARY

REQUIRED KWIKTECH ITEMS (INCLUDED IN KIT)

ITEM	QUANTITY	ITEM	QUANTITY
Post Connector (KT-P-001)	0	10G x 16 Self Drilling Wafer Head Screw	200
Universal Connector (KT-P-002)	30	M6 x 40 Socket Head Cap Screw - Zinc	20
Rail Inserts (KT-P-003)	20	M6 x 20 Hex Head Bolt - Galv	0
60° Rail Inserts (KT-P-004)	10	M6 Nut - Galv	0
Star Picket Guide (KT-P-005)	0	Kwiktech 2mm Displacement Plate	14
Post Cap (KT-P-006)	0	Right Angle Bracket - Zinc	0
Tension Strapping 0.8 x 30 x 85mm	0	Assembly Wedge - Rubber	0
Tension Strapping 0.8x 30 x 95mm	18	10G x 16 Self Drilling Small Head Flat Top Screw	120
Tension Strapping 0.8 x 30 x 135mm	10		
Tension Strapping 0.8 x 30 x 250mm	0		

HOLLOW METAL

ITEM	TOTAL LENGTH
Duragal 100x50x2.0mm RHS	4m to 8m depending on size
Duragal 100C10 Purlin	9.4m to 19.7m depending on size
Duragal 38x25x1.2mm	9.5m 19.8m depending on size

FOR INFORMATION ONLY

Member Locations

Heavy Duty Frameworks

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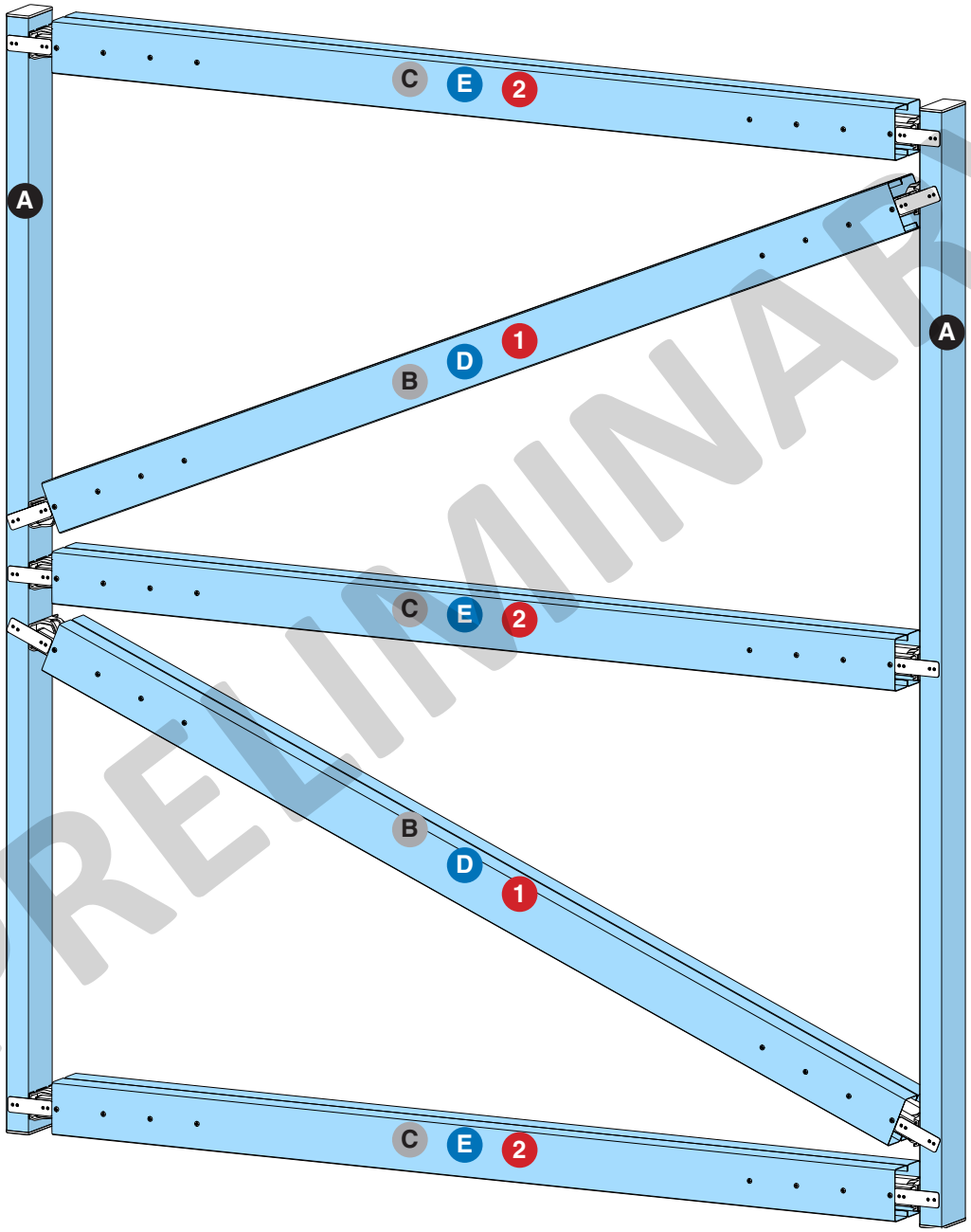

PRELIMINARY

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Flashing Types

Heavy Duty Frameworks

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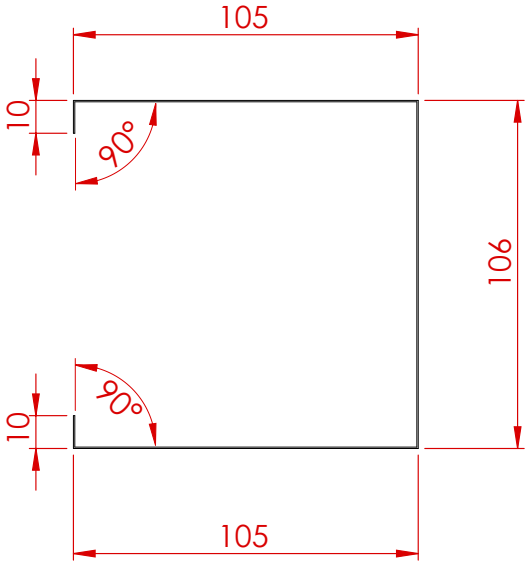


FL 1

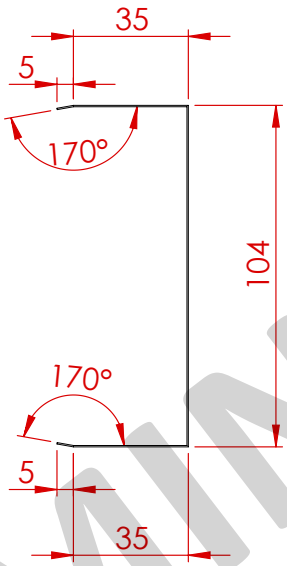
KT-HDF-01
150mm
0.42 BMT
QTY: 6

FL 3

KT-HDF-01
150mm
0.42 BMT
QTY: 2

FL 5

KT-HDF-01
150mm
0.42 BMT
QTY: 2



FL 2

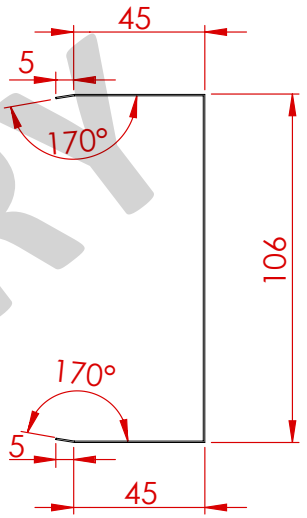
KT-HDF-02
150mm
0.42 BMT
QTY: 6

FL 4

KT-HDF-02
150mm
0.42 BMT
QTY: 2

FL 6

KT-HDF-02
150mm
0.42 BMT
QTY: 2



FL 7

KT-HDF-03
Same length
as Member (A)
0.42 BMT
QTY: 2

Flashing Trimmings

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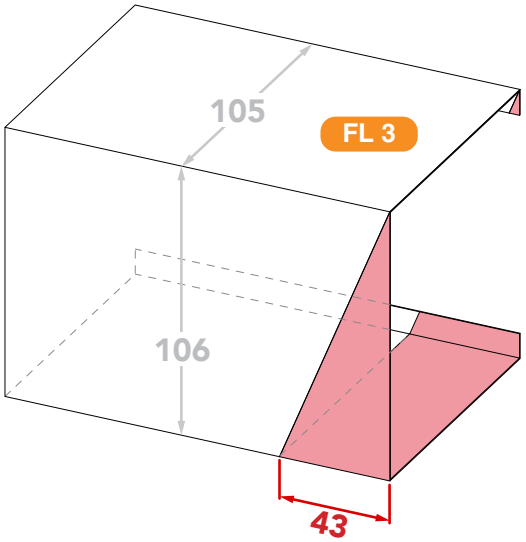
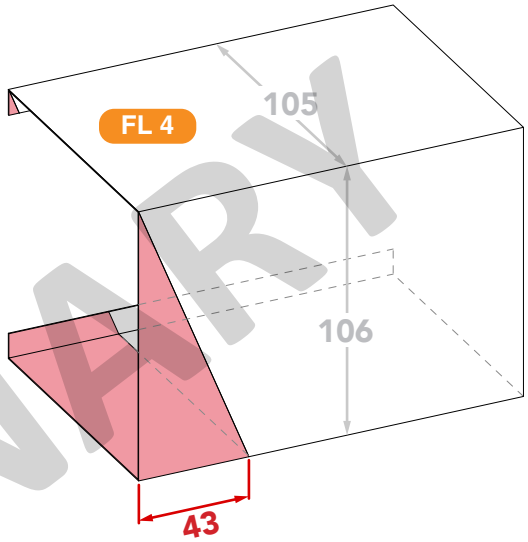
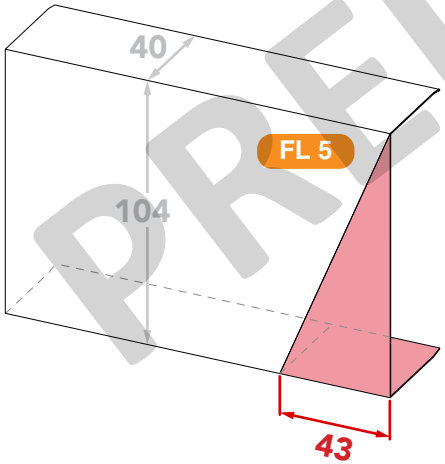
Measure and mark lines on flashings.
Use tinsnips to trip shaded areas off.



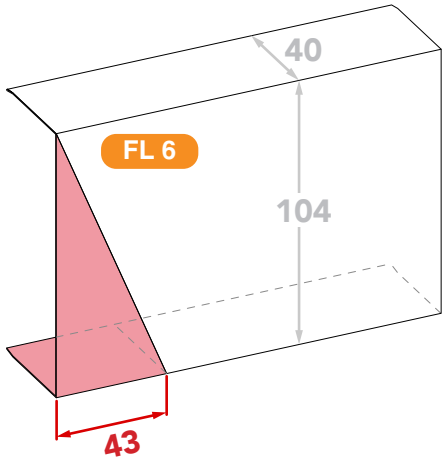
Top Diagonal
Outer Cover
QTY: 2



Bottom Diagonal
Outer Cover
QTY: 2



Top Diagonal
Inner Cover
QTY: 2



Bottom Diagonal
Inner Cover
QTY: 2

PRELIMINARY

Rail Assembly

Heavy Duty Frameworks

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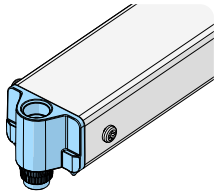
Rail Setup

Refer to build guide for assembly details.

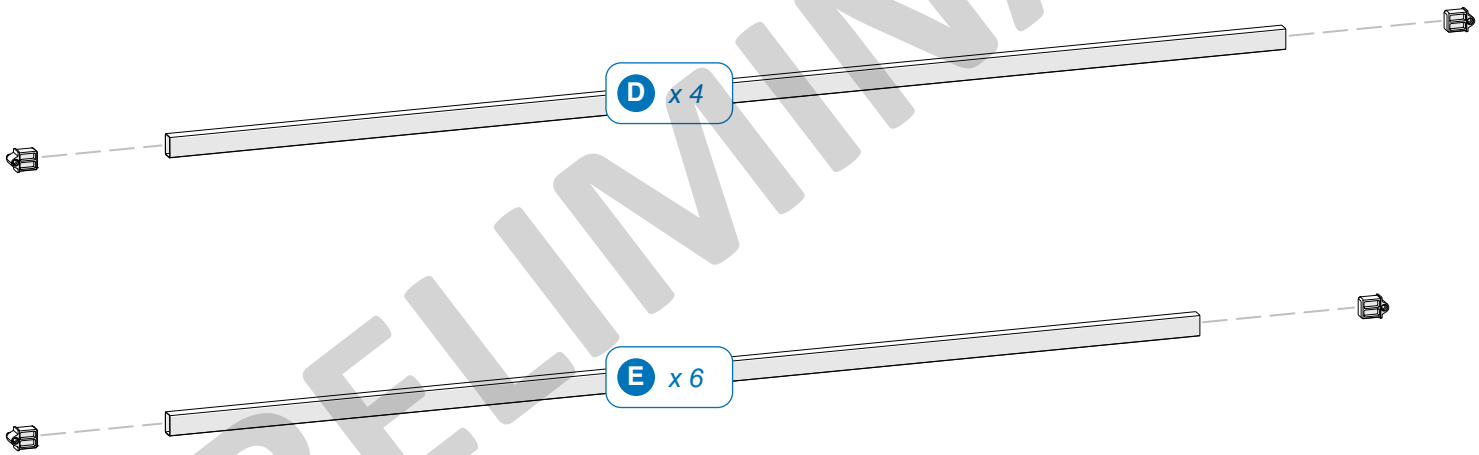
All members have a Standard insert unless otherwise noted.

Mark item ID on each member.

RAIL INSERT TYPES



Standard



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Approximate time required: 0.5 *Hours*

Extra Strong Rail Assembly

Heavy Duty Frameworks

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Rail Setup

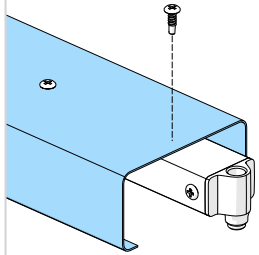
Refer to build guide for assembly details.

Recommend using C-Clamps to hold rails for screw fixing.

Mark assembly ID on each member.

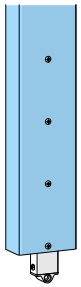
TYPICAL ENDS FIXING DETAIL

Screw 10mm from end of SHS.



Note: Use suitable spacer to secure 38x25 in place while fixing

ENDS FIXING DETAIL

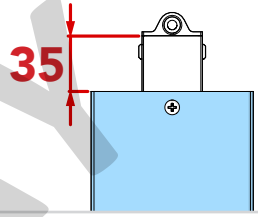


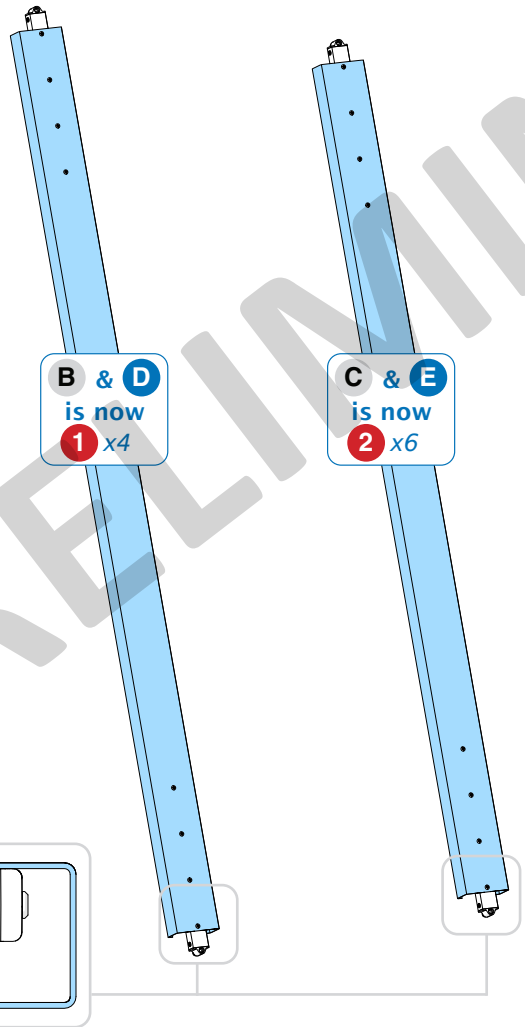
4 screws from the 100C10 Purlin into 38x25.

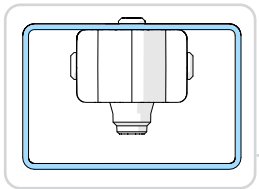
100mm spacing, both ends for 38x25 full length members.

ENDS FIXING DETAIL

The 38x25 members extend 35mm from both ends of the C Purlins.







Approximate time required: *3 Hours*

PRELIMINARY

Universal Connector Locations

Heavy Duty Frameworks

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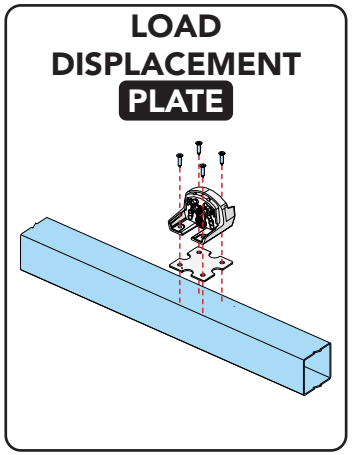
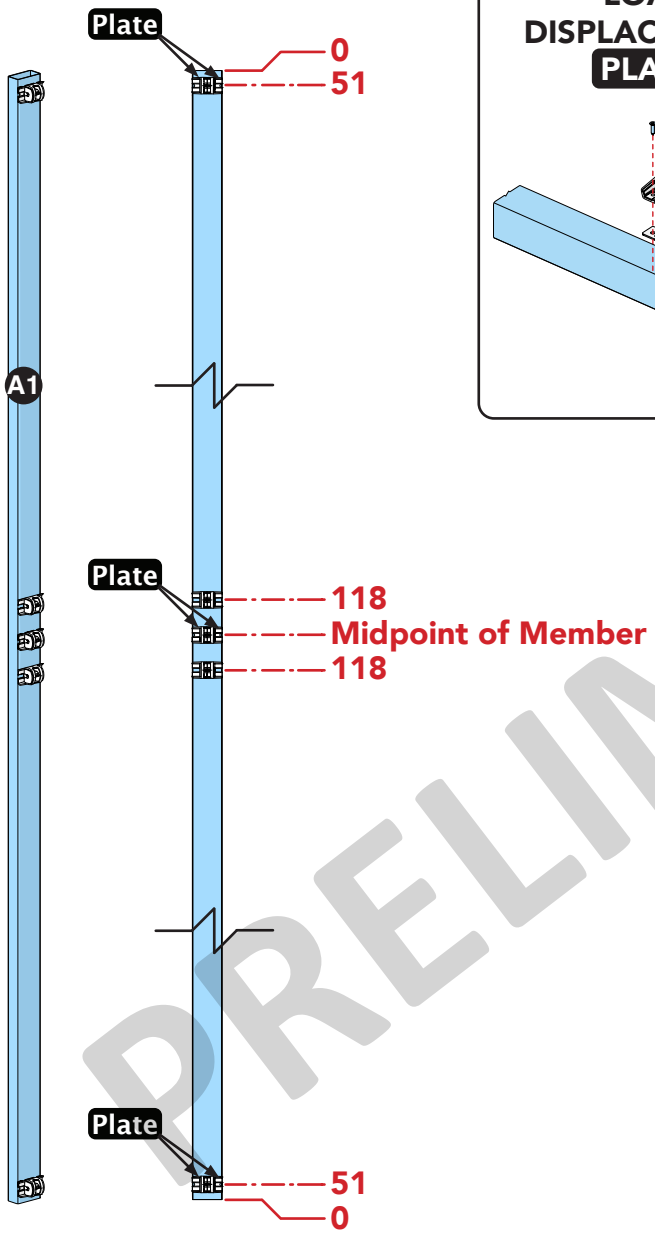
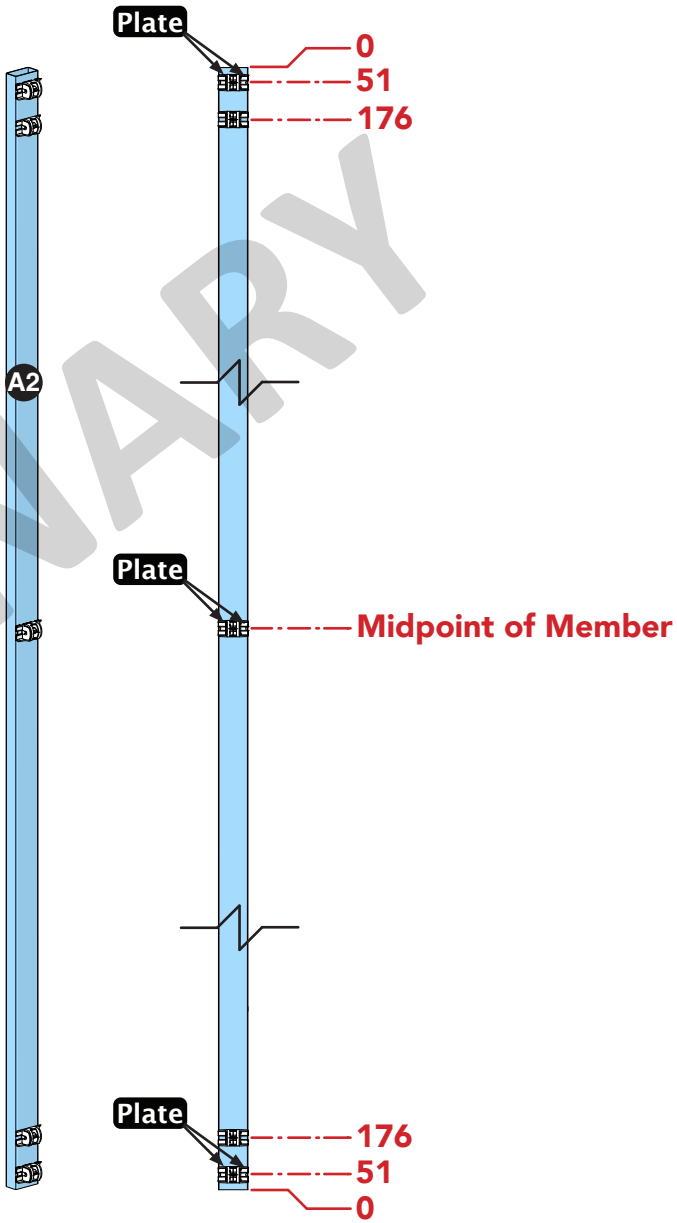




Left Post

x1



Right Post

x1

Approximate time required: *1 Hour*

PRELIMINARY

Assembly Sequence

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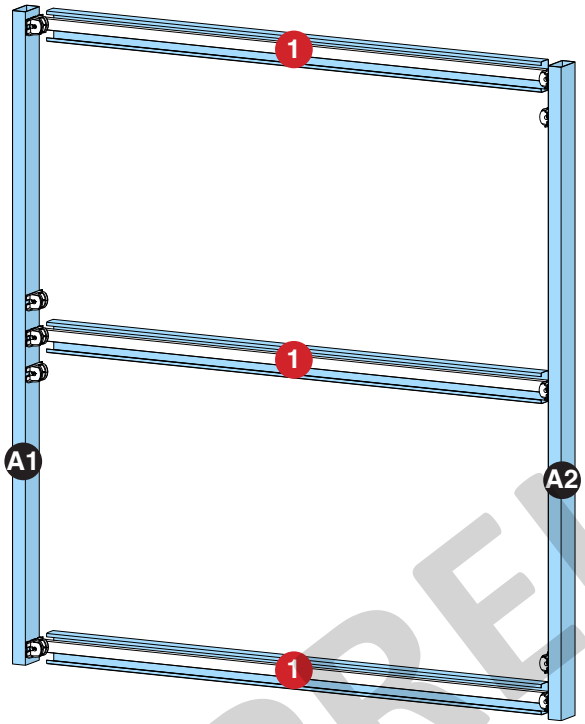
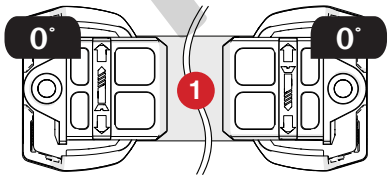
Build Framework

Construct on the ground.
(Images show steel upright for clarity)

Step 1

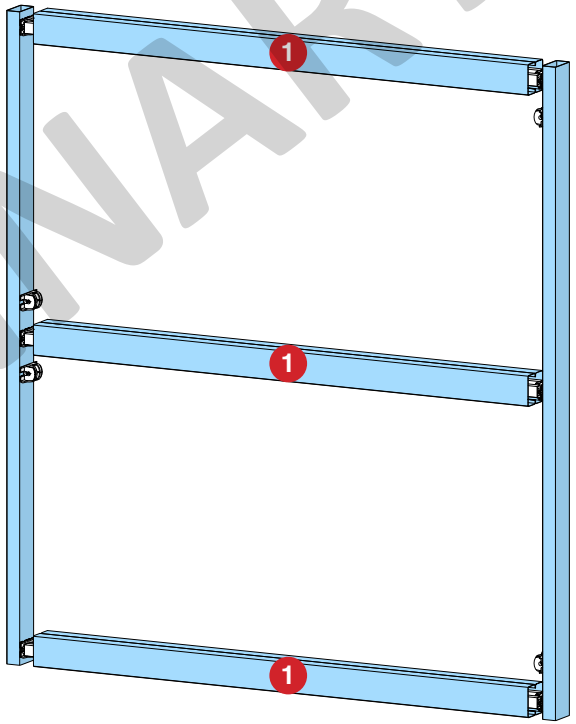
Attach the 5 rail items below

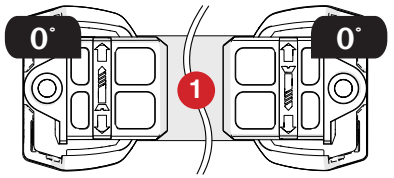




Step 2

Attach the 3 rail items below





PRELIMINARY

Approximate time required: 0.25 *Hours*

Assembly Sequence

Heavy Duty Frameworks

User Manual

Read in conjuction with Kwiktech Build Guide and Kwiktech Tips & Tricks

Designed by

kwiktech.

Engineered by

SBEC. SCHMIDT BENTLEY ENGINEERING CONSULTING

Rating:

Kwiktech Test Specifications

Rev 0

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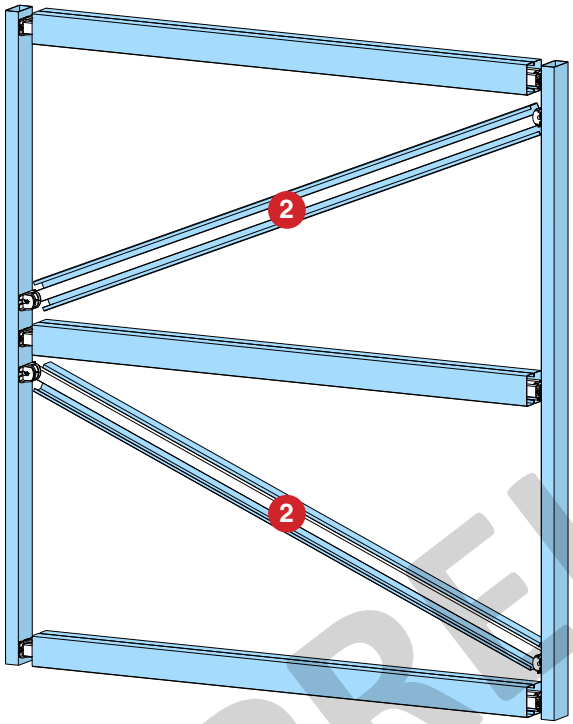
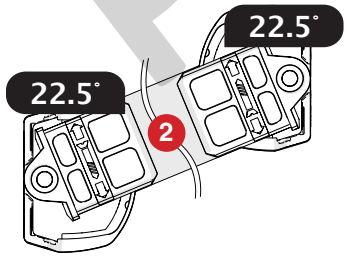
Build Framework

Construct on the ground.
(Images show steel upright for clarity)

Step 3

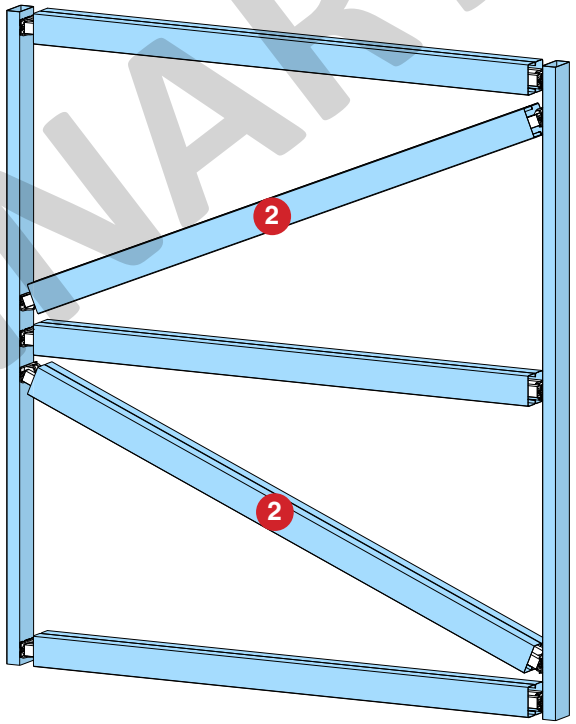
Attach the 2 rail items below

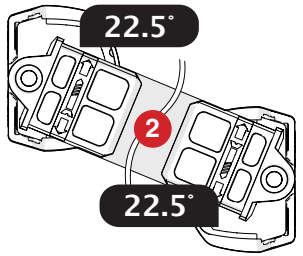




Step 4

Attach the 2 rail items below





Approximate time required: 0.25 *Hours*

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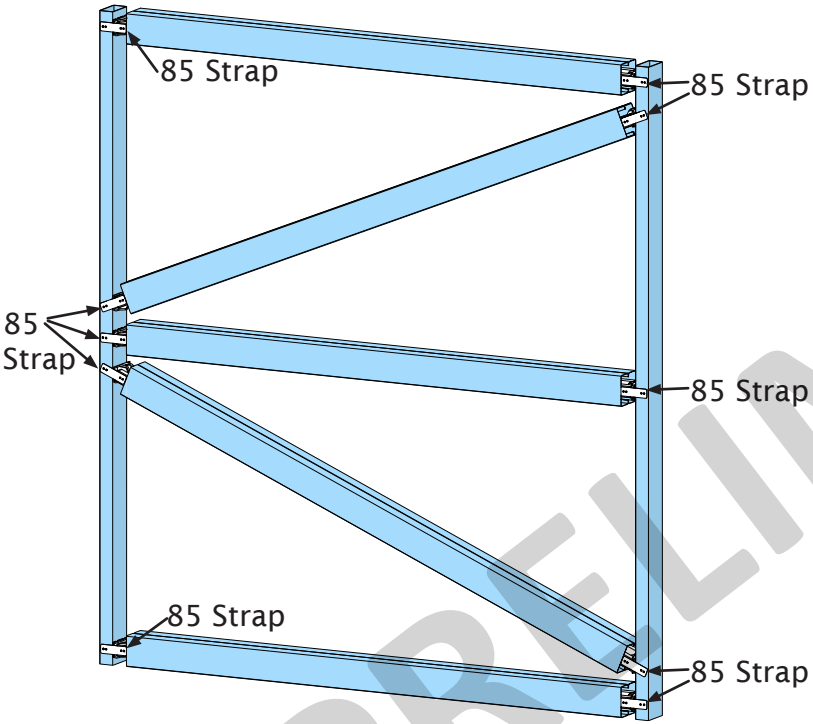
Build Framework

Construct on the ground.
(Images show steel upright for clarity)

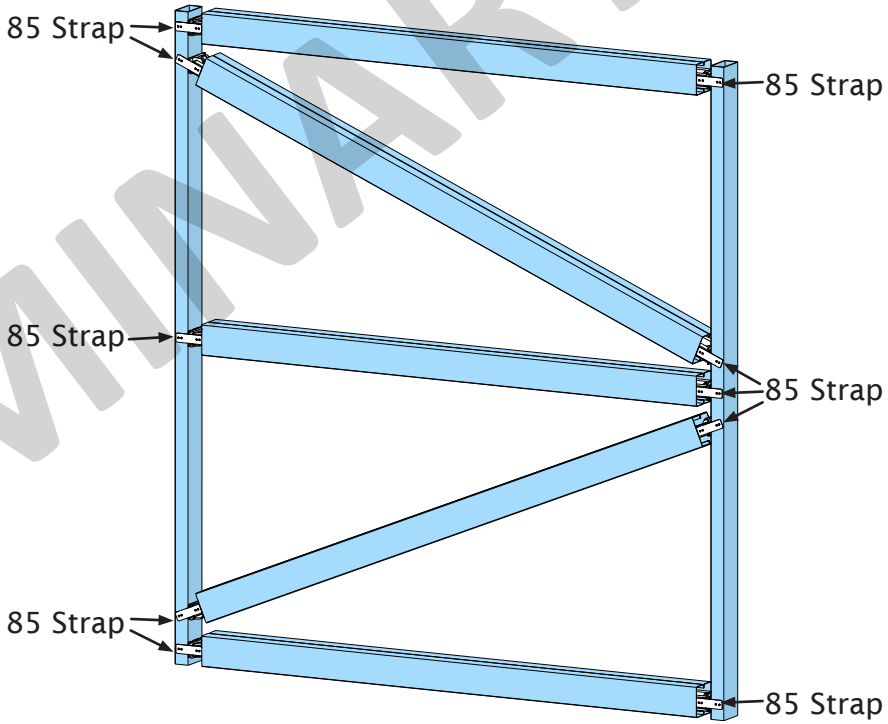
Step 5

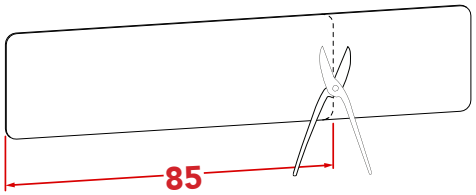
Fix the straps onto the **front side** of the framework.



Step 6

Repeat the process for the straps on the **back side** of the framework.





Note: 2 x 135mm straps will need to be cut down to 85mm in length.

Approximate time required: 1 *Hour*

PRELIMINARY

Flashings & Finishings

Heavy Duty Frameworks

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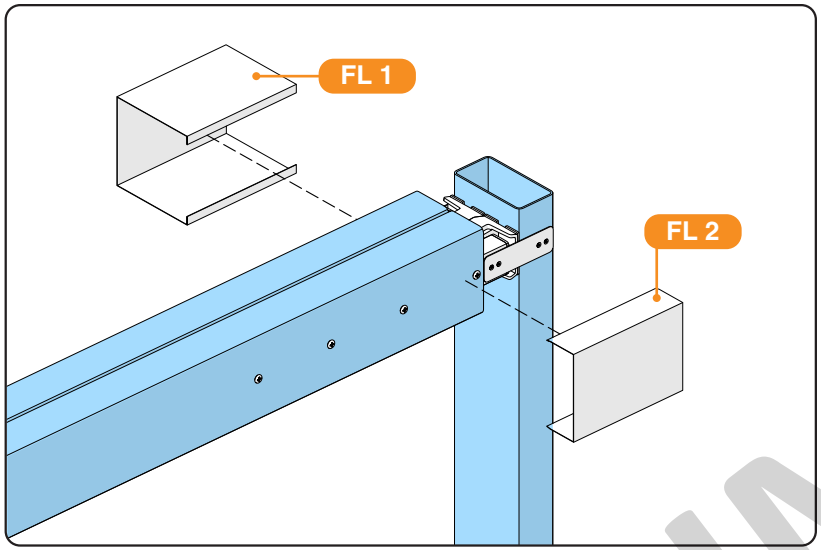
Install the Flashings

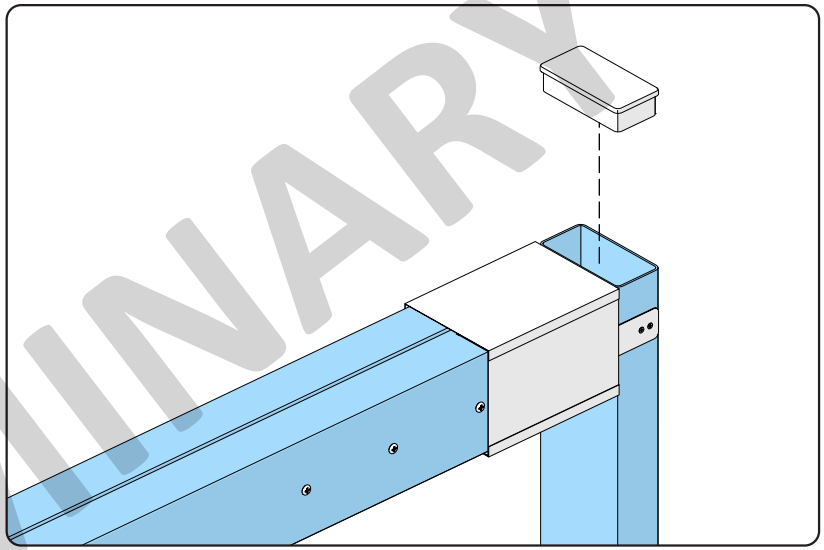
Step 1

Place the internal end flashings on the ends of all the horizontal members. Then the external one over the top & clip it onto the SHS member. Secure via fixings or silicone.



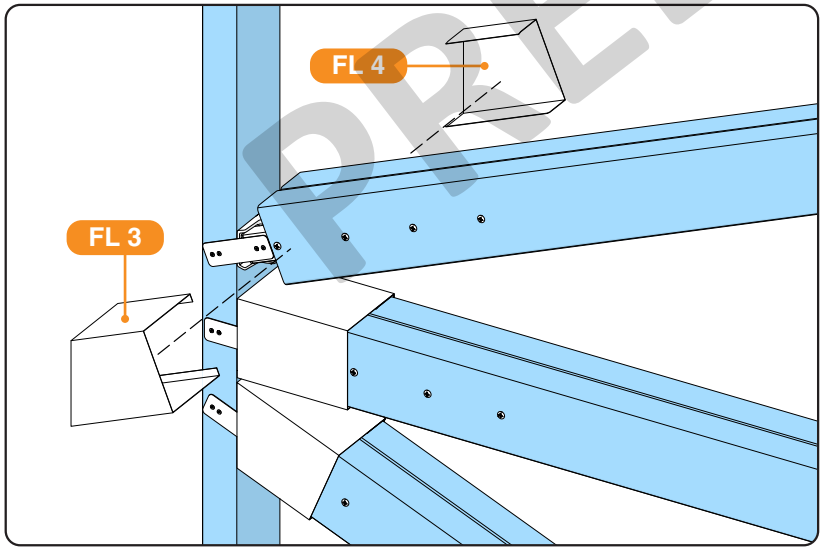
Step 2

Place the plastic 100x50 Post Cap inserts into the top and bottom of both of the posts.



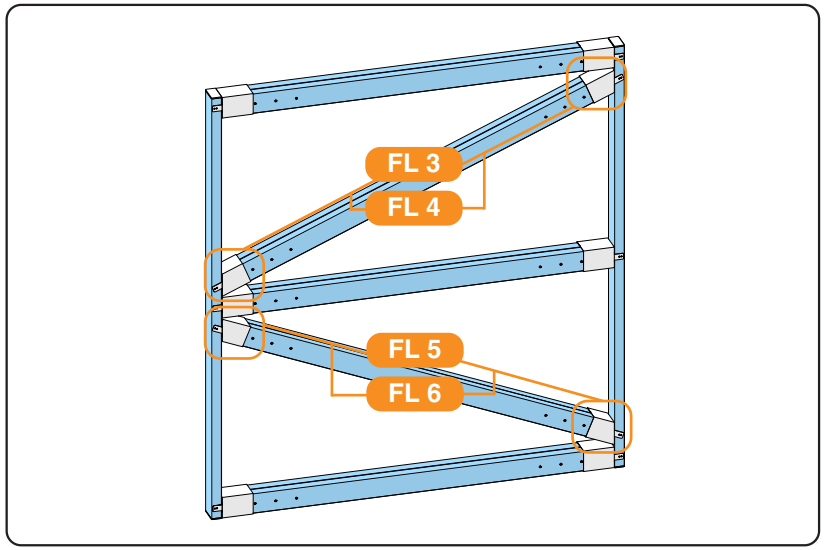
Step 3

Place the internal bracing flashings on all 12 of the diagonal bracing members. Secure via fixings or silicone.



Step 4

Finished gate fully assembled.



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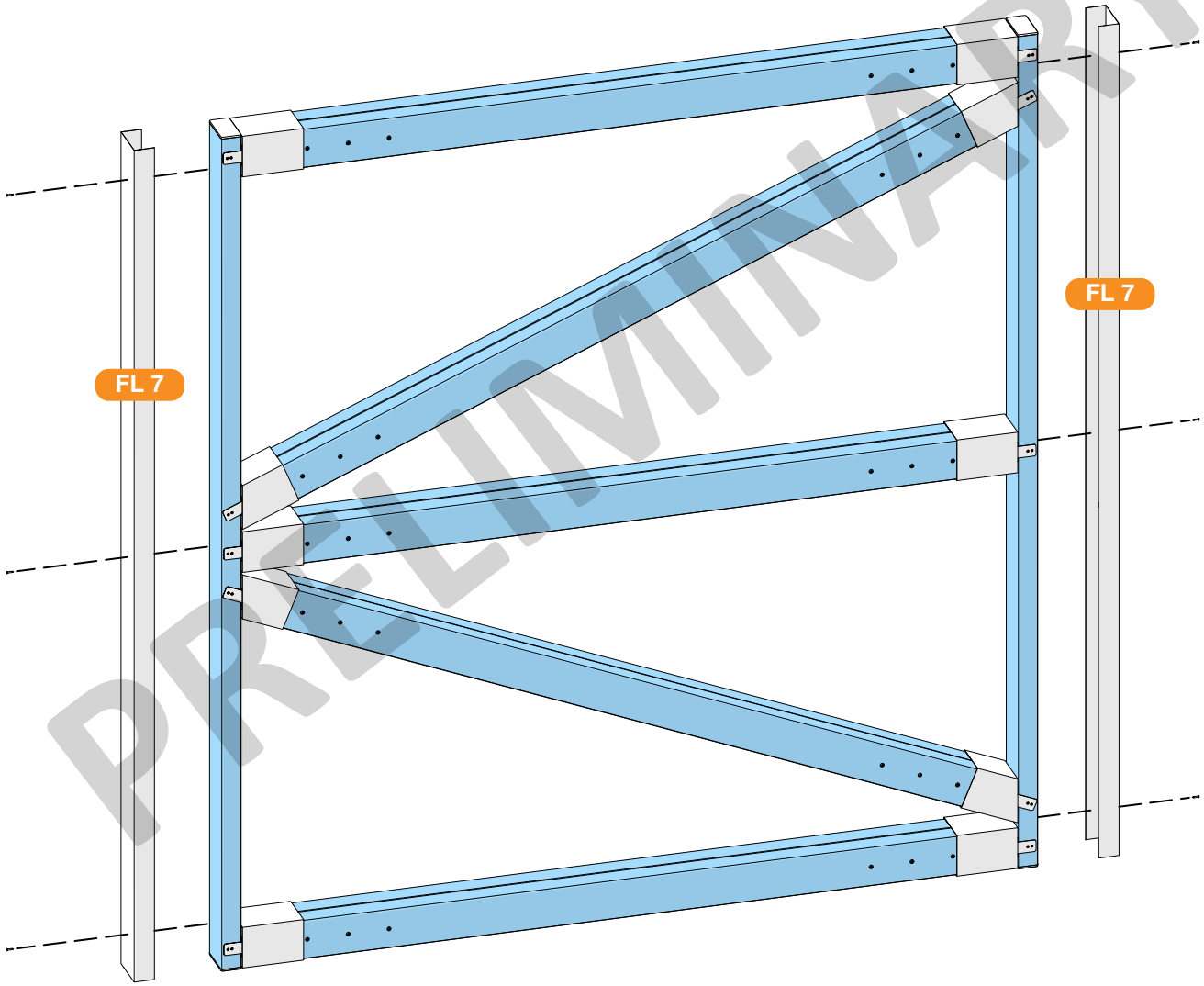
Step 5

Place the post flashings on the exterior of the framework steel and fix in place with 3 x flat top screws 100mm from the ends & 1 central to the steel. Repeat process for both sides.



PRELIMINARY

Finished Frameworks

Heavy Duty Frameworks

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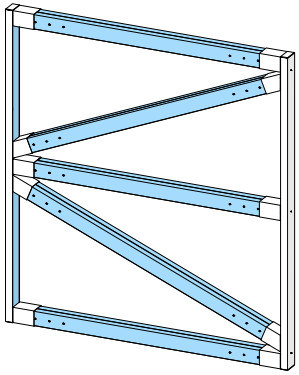
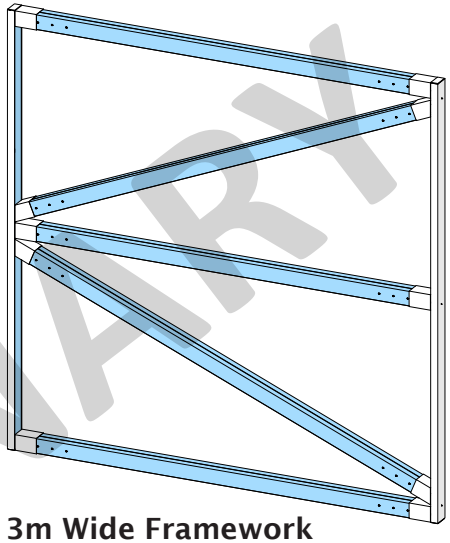
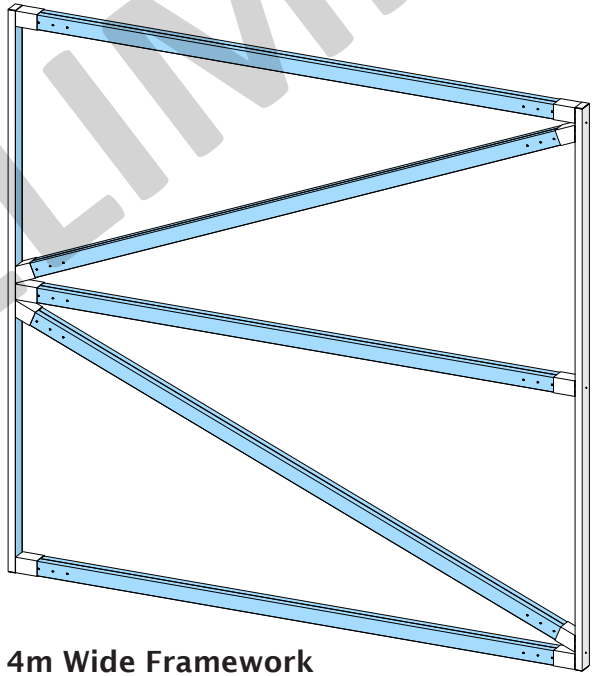


2m Wide Framework



3m Wide Framework



4m Wide Framework

PRELIMINARY