

# 2.45 Shed Side Extension

## 2.45m Shed Extension - Right Side

### *User Manual*

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

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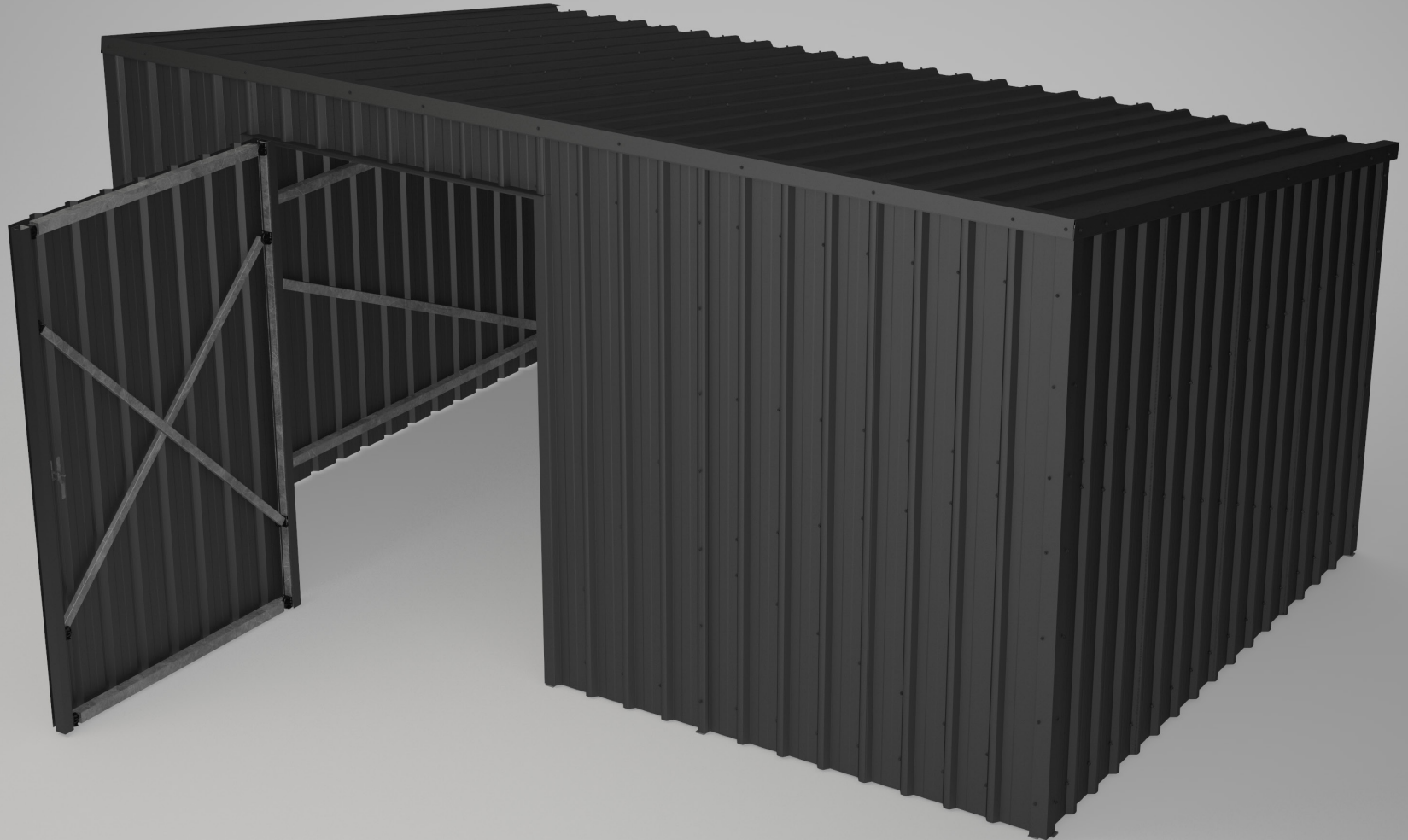
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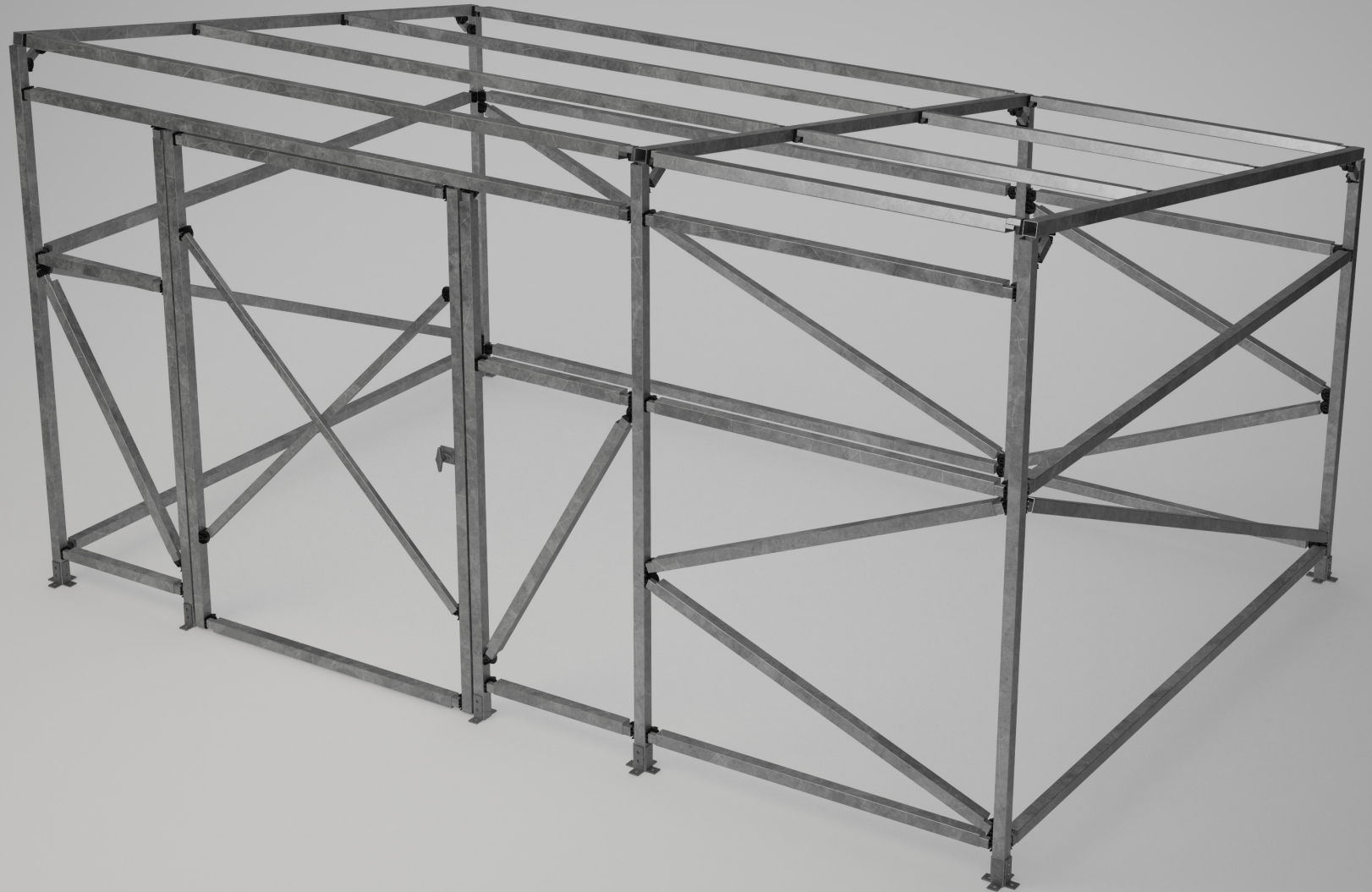
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# General Arrangement

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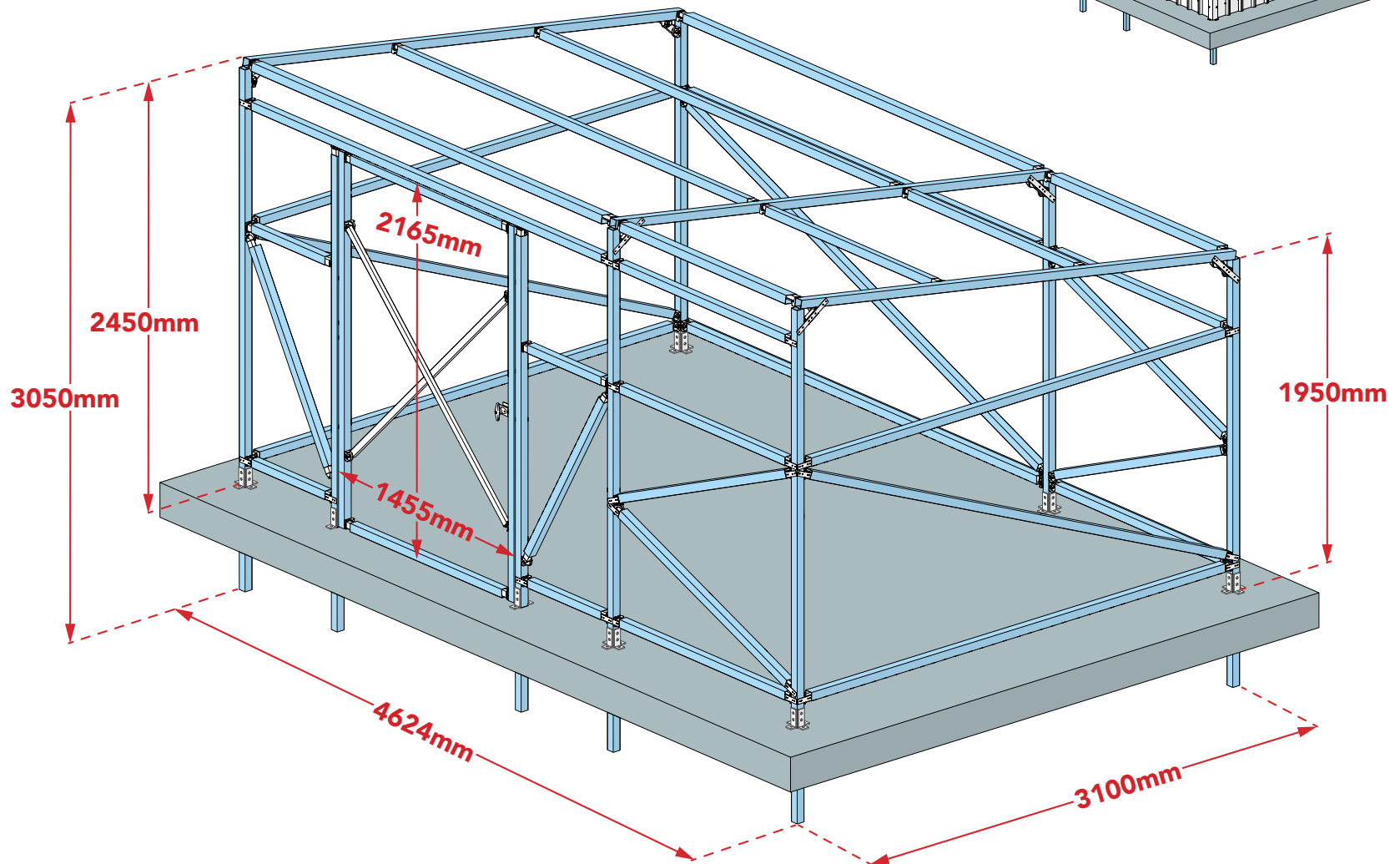
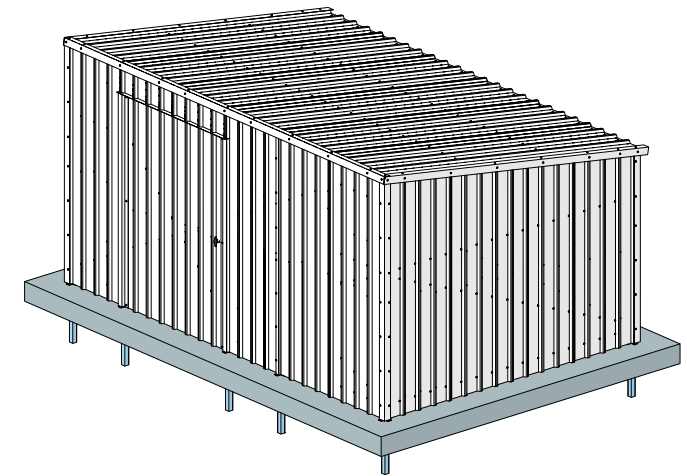
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# Materials List

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## NON KWIKTECH ITEMS

ITEM	ITEM ID #	ASSEMBLY ID #	LENGTH	COLOUR	QUANTITY	RESELLER PRICE
RHS 75x50x2.0mm	1	A	2900	Galv	2	
RHS 75x50x2.0mm	2	B	1374	Galv	2	
SHS 50x50x2mm	3		3084	Galv	1	
SHS 50x50x2mm	4		3000*	Galv	1	
SHS 50x50x2mm	5		2510*	Galv	1	
SHS 50x50x1.5mm	6	C	3147	Galv	3	
SHS 50x50x1.5mm	7 8		3084	Galv	2	
SHS 50x50x1.5mm	9 10		3000*	Galv	2	
SHS 50x50x1.5mm	11	D	2900	Galv	3	
SHS 50x50x1.5mm (Displacement plates both ends)	12	E	2986	Galv	6	
SHS 50x50x1.5mm	13 14	F	2733*	Galv	2	
SHS 50x50x1.5mm	15 16		2510*	Galv	2	
SHS 50x50x1.5mm	17		2163	Galv	2	
SHS 50x50x1.5mm	18	G	1490	Galv	4	
SHS 50x50x1.5mm	19	H	1374	Galv	3	
SHS 50x50x1.5mm (Displacement plates both ends)	20	I	1370	Galv	4	
SHS 50x50x1.5mm	21	J	1255	Galv	2	
SHS 50x50x1.5mm	22	K	1241	Galv	2	
SHS 50x50x1.5mm	23	L	613	Galv	4	

\*NOTE: If fixing the shed on existing concrete, reduce these member lengths by 600mm.

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RHS 38x25x1.2mm	24	C	3217	Galv	3	
RHS 38x25x1.2mm	25	A D	2970	Galv	5	
RHS 38x25x1.2mm (Displacement plates both ends)	26	E	2966	Galv	6	
RHS 38x25x1.2mm	27		2023	Galv	2	
RHS 38x25x1.2mm	28		1852	Galv	2	
RHS 38x25x1.2mm	29	G	1560	Galv	4	
RHS 38x25x1.2mm	30	B H	1444	Galv	5	
RHS 38x25x1.2mm (Displacement plates both ends)	31	I	1440	Galv	4	
RHS 38x25x1.2mm	32	J	1325	Galv	2	
RHS 38x25x1.2mm	33	K	1311	Galv	2	
RHS 38x25x1.2mm	34	F	1000	Galv	2	
RHS 38x25x1.2mm	35	L	683	Galv	4	
RHS 38x25x1.2mm (Used for optional temp corner braces)	36		442	Galv	4	
RHS 38x25x1.2mm	37		80	Galv	3	
RHS 38x25x1.2mm	38		68	Galv	4	

### NON KWIKTECH ITEMS

ITEM	ID #	LENGTH	COLOUR	QUANTITY	RESELLER PRICE
100x100x2.5 Zinc Plated Butt Hinge		100	Galv	3	
VATER Tee Handle Kit & Inside Latch		-	-	1	
Tek Screw 16mmx10g Coloured		16	Customers Choice	600	
Tek Screw 45mmx12g Coloured - Neo		45		300	
M12x75 4.6 Hex head Galv Bolt & Nut		75	Galv	14	
P1326H Ninety Degree Fitting HG	Only required if fixing to existing concrete.	105	Galv	28	
Dynabolt DP12100 M10 12x100 Galv		100	Galv	28	
38x25 Black Plastic Post Cap		38	Black	2	



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## KWIKTECH KITS

ITEM	QUANTITY	RESELLER RPICE
Kwiktech DIY Rated Shed Kit (NOTE: Some items will not be used)	2	

## CLADDINGS & FLASHINGS

ITEM		ID #	LENGTH	COLOUR	QUANTITY	RESELLER RPICE
TrimDek Cladding 762x29x0.48mm - Front Roof		RF 1	3275	Customers Choice	6	
TrimDek Cladding 762x29x0.48mm - Front Outers		CL 1	2450		4	
TrimDek Cladding 762x29x0.48mm - Side 1		CL 2	2450		2	
TrimDek Cladding 762x29x0.48mm - Side 2		CL 3	2325		2	
TrimDek Cladding 762x29x0.48mm - Side 3		CL 4	2200		2	
TrimDek Cladding 762x29x0.48mm - Side 4		CL 5	2075		2	
TrimDek Cladding 762x29x0.48mm - Back		CL 6	2200		6	
TrimDek Cladding 762x29x0.48mm - Door		CL 7	2165		2	
TrimDek Cladding 762x29x0.48mm - Front above Door		CL 8	280		2	
Front Peak Flashing		FL 1	4684		1	
Back Flashing		FL 2	4630	1		
Roof Sides Flashing		FL 3	3310	2		
Front Corners Flashing		FL 4	2450	2		
Door Frame Housing Flashing		FL 5	2172	2		
Door Side Flashing		FL 6	2165	2		
Back Corners Flashing		FL 7	1950	2		
Above Door Flashing		FL 8	1590	1		
Internal Door Frame Flashing		FL 9	1518	1		
Door Lock Flashing		FL 10	40	Galv	1	
					Sub-Total	
					GST	
					Shipping	
					Total Cost	

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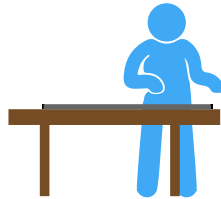
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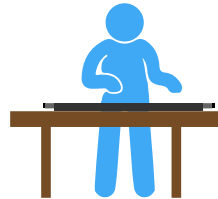
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## Build Preparation



Rail Inserts



Extra Strong Rails



Universal  
Connectors

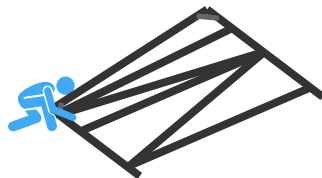


Door Stopper

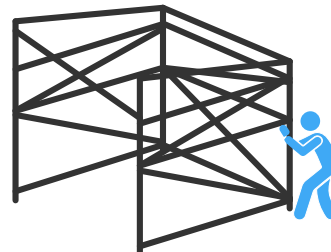


Footing  
Preparation

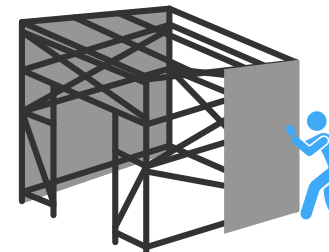
## Assembly Sequence



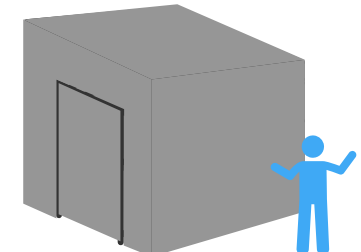
Fabricate



Erect & Fabricate



Cladding & Flashings



Finished Product

### KWIKTECH FIXINGS & ACCESSORIES

ITEM	QUANTITY	ITEM	QUANTITY
Post Connector (KT-P-001)	0	10G x 16 Self Drilling Wafer Head Screw	1200
Universal Connector (KT-P-002)	120	M6 x 40 Socket Head Cap Screw - Zinc	120
Rail Inserts (KT-P-003)	108	M6 x 20 Hex Head Bolt - Galv	0
60° Rail Inserts (KT-P-004)	12	M6 Nut - Galv	0
Star Picket Guide (KT-P-005)	0	Kwiktech 2mm Displacement Plate	24
Post Cap (KT-P-006)	0	Right Angle Bracket - Zinc	4
Tension Strapping 0.8 x 30 x 85mm	0	Assembly Wedge - Rubber	2
Tension Strapping 0.8 x 30 x 95mm	48	10G x 16 Self Drilling Small Head Flat Top Screw	260
Tension Strapping 0.8 x 30 x 135mm	0		
Tension Strapping 0.8 x 30 x 250mm	8		

### HOLLOW METAL

ITEM	TOTAL LENGTH
Duragal 75x50x2.0mm	9m
Duragal 50x50x2mm	9m
Duragal 50x50x1.5mm	87m
Duragal 38x25x1.2mm	82m

FOR  
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ONLY

# Member Locations

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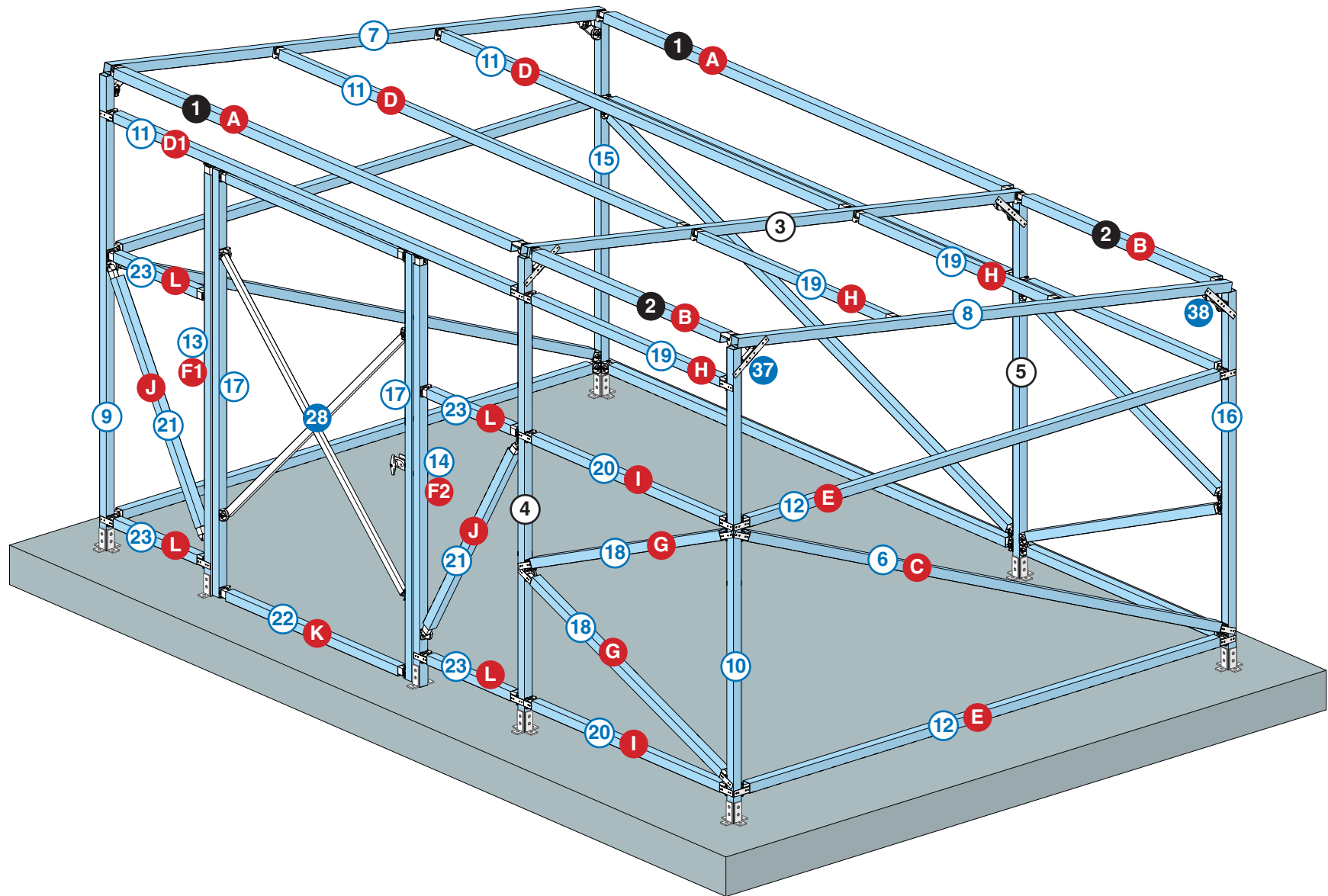
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NOTE: Some member ID's hidden for clarity.



# Rail Assembly

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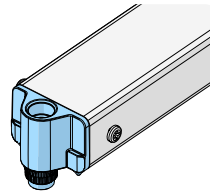
## Rail Setup

Refer to build guide for  
assembly details.

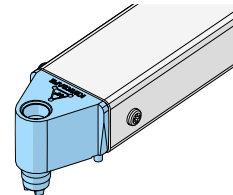
All members have a Standard  
insert unless otherwise noted.

Mark item ID on each member.

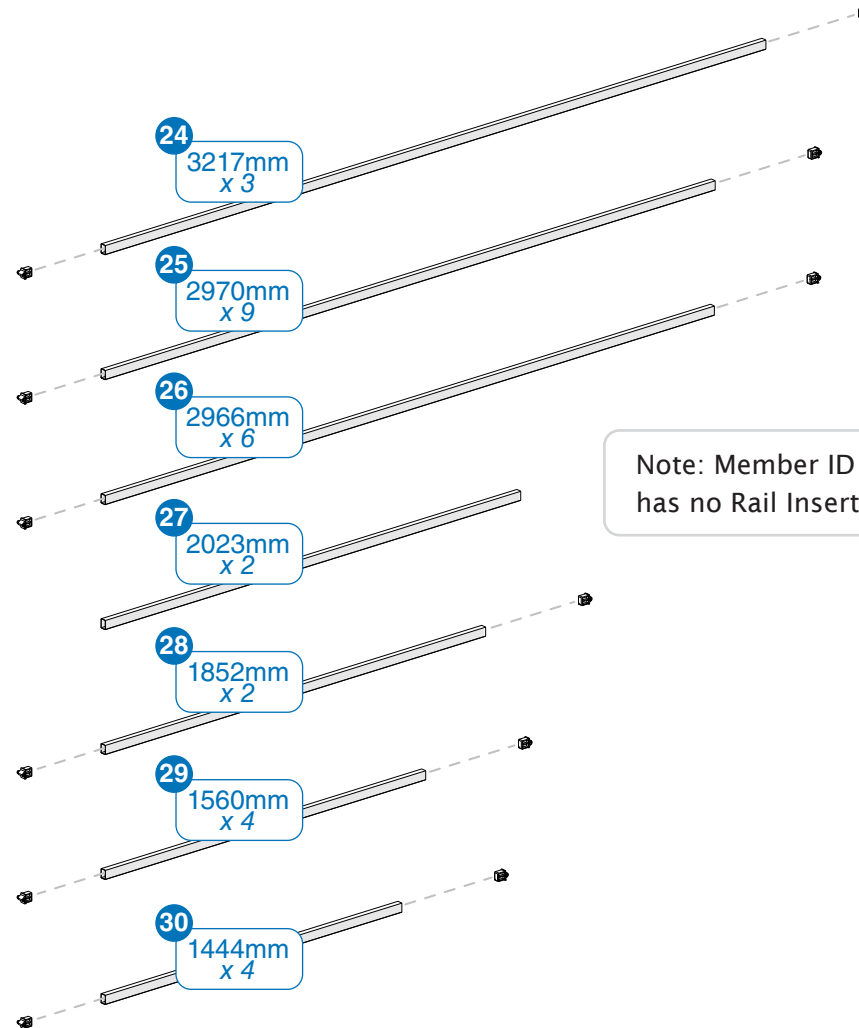
## RAIL INSERT TYPES



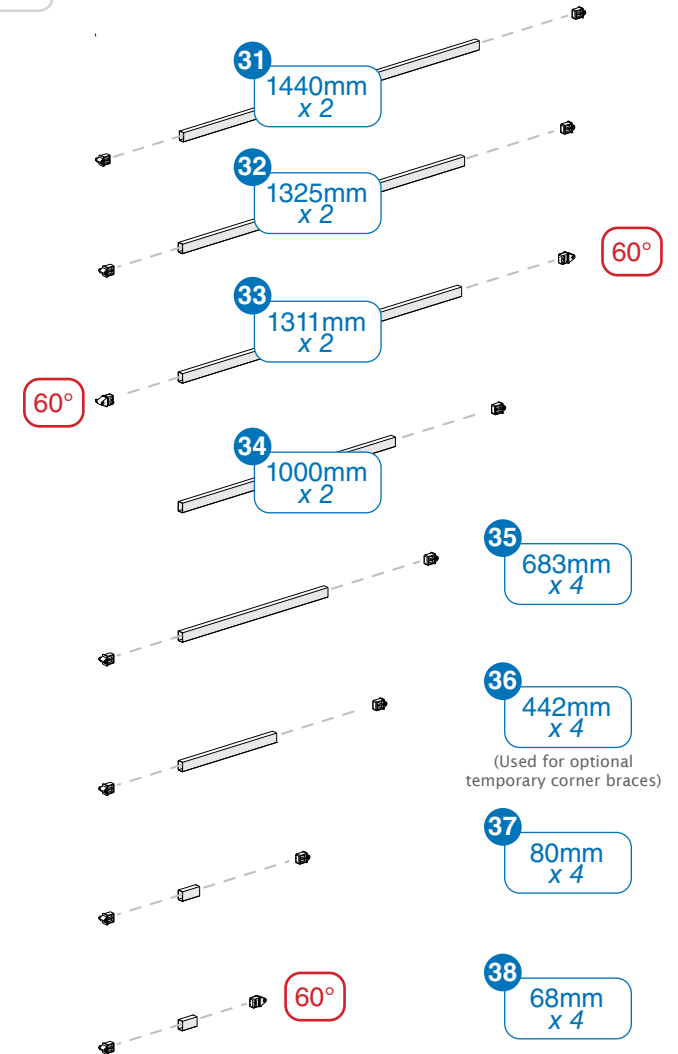
Standard



60°



Note: Member ID 27  
has no Rail Inserts.



Approximate time  
required: 2 Hours

# Extra Strong Rail Assembly

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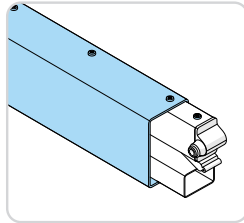
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## Rail Setup

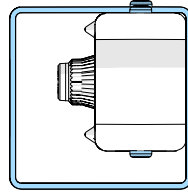
Refer to build guide for  
assembly details.

Mark assembly ID  
on each member.



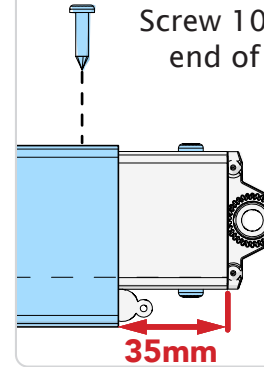
## MEMBER ORIENTATION

38x25 in the  
Top Left Corner



## ENDS FIXING DETAIL

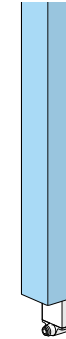
Screw 10mm from  
end of 50x50.



Note: Use  
Kwiktech  
Wedge or  
similar  
wedge/shim

## ENDS FIXING DETAIL

4 screws from 50x50  
into 38x25. 100mm  
spacing, both ends  
for 38x25 full length  
members.



Use spare member **38**  
as a spacing wedge  
to position the  
38x25 inside the  
75x50

Align  
edge

Align  
edge

**1 & 25**  
is now **A**  
x2

**2 & 30**  
is now **B**  
x2

**6 & 24**  
is now **C**  
x3

**11 & 25**  
is now **D**  
x3

**12 & 26**  
is now **E**  
x6

**13 & 34**  
is now **F1**  
x1

**14 & 34**  
is now **F2**  
x1

**18 & 29**  
is now **G**  
x4

**19 & 30**  
is now **H**  
x3

**20 & 31**  
is now **I**  
x4

**21 & 32**  
is now **J**  
x2

**22 & 33**  
is now **K**  
x2

**23 & 35**  
is now **L**  
x4

Approximate time  
required: 3 Hours

# Universal Connector Locations

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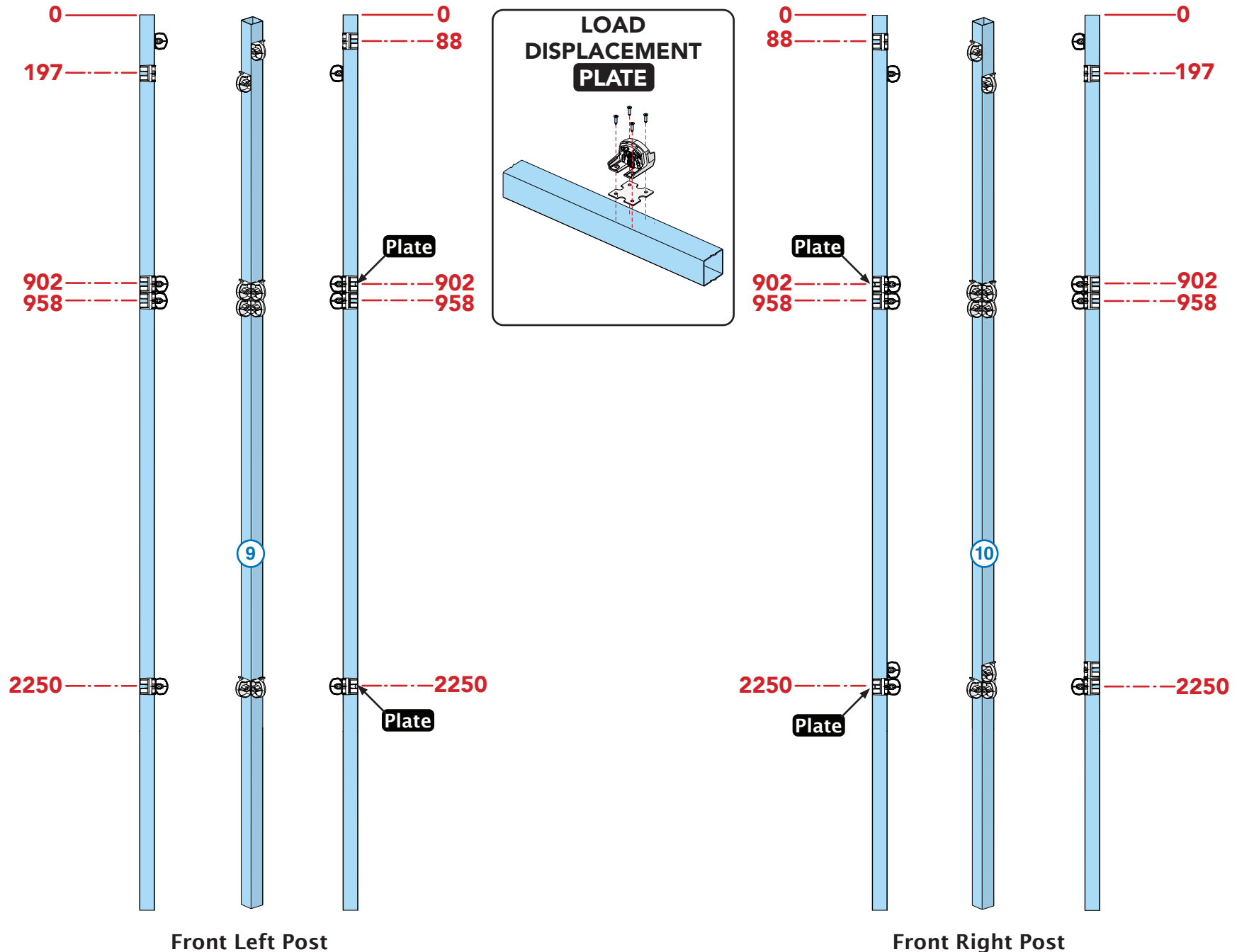
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Approximate time  
required: 1 Hour

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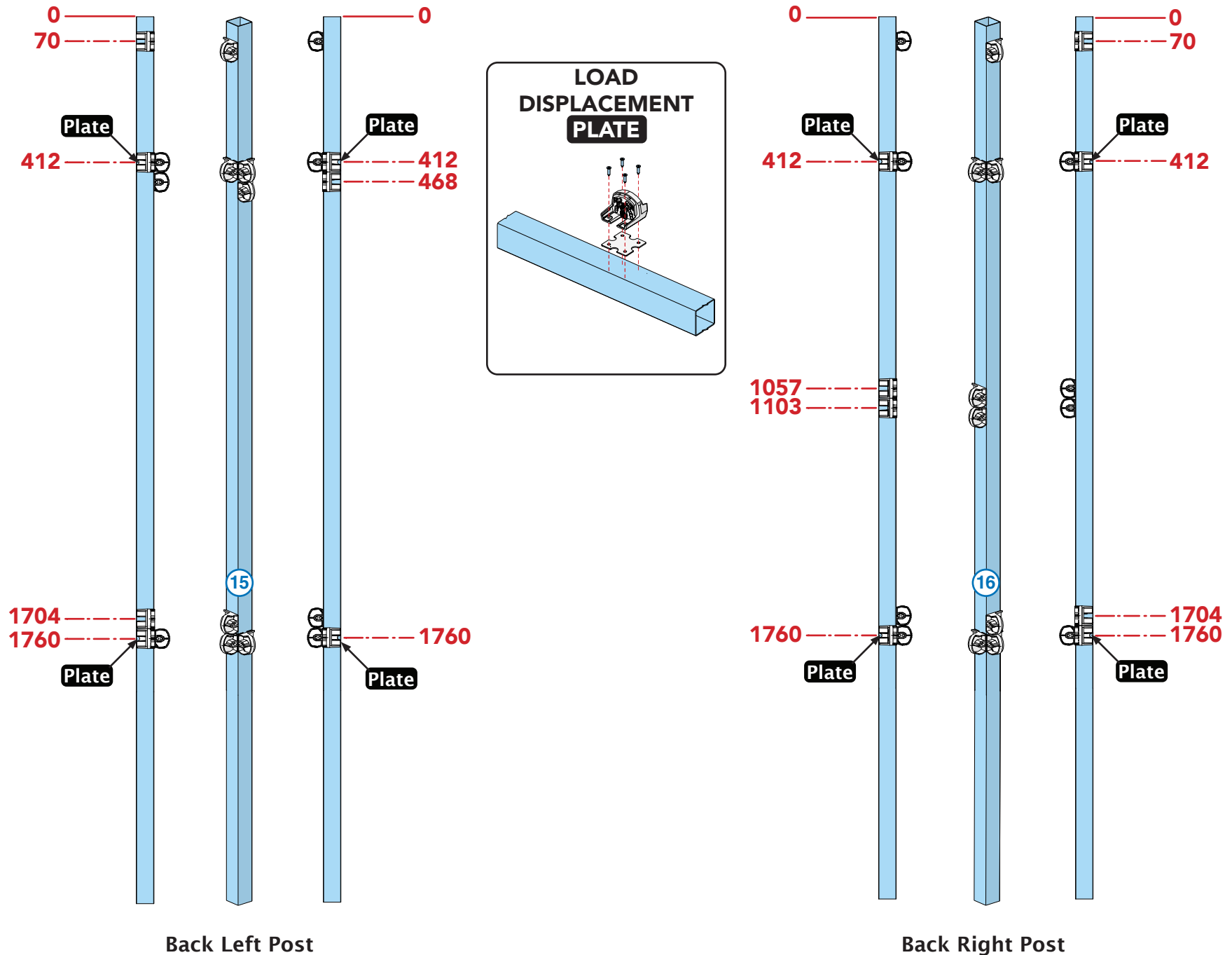
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Approximate time  
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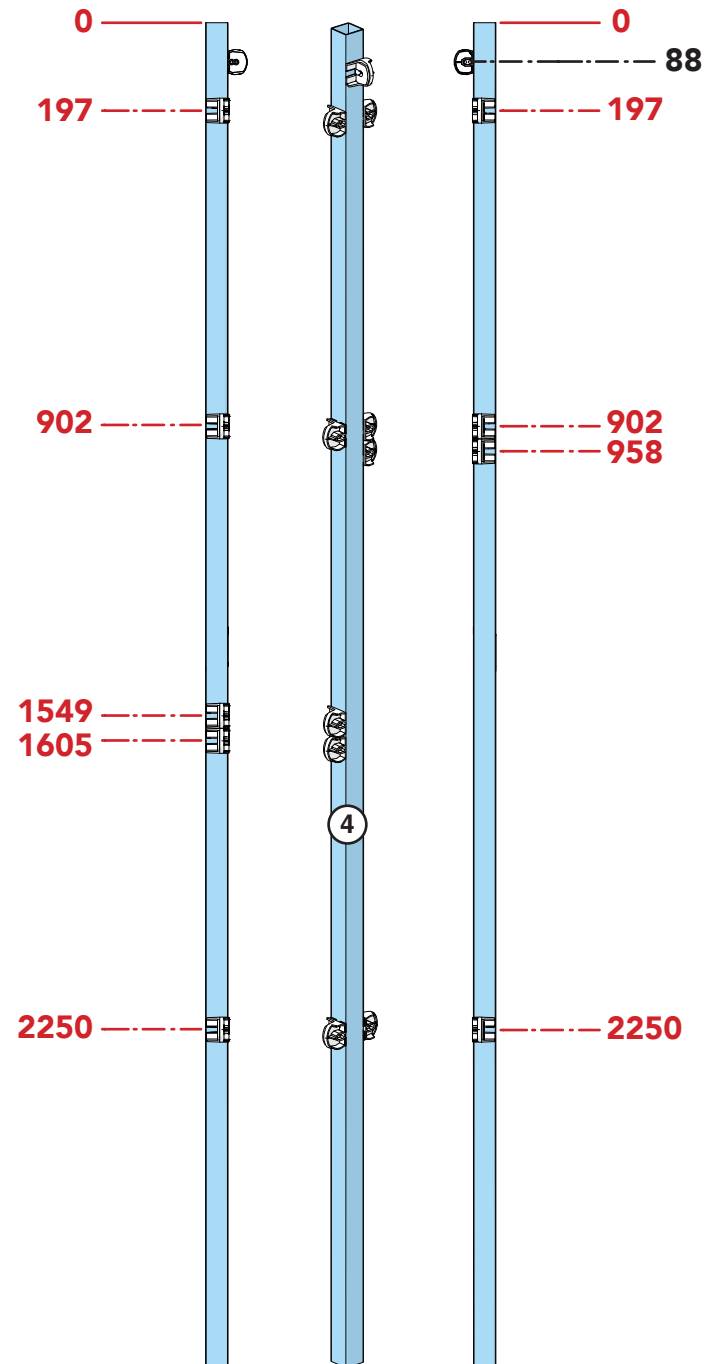
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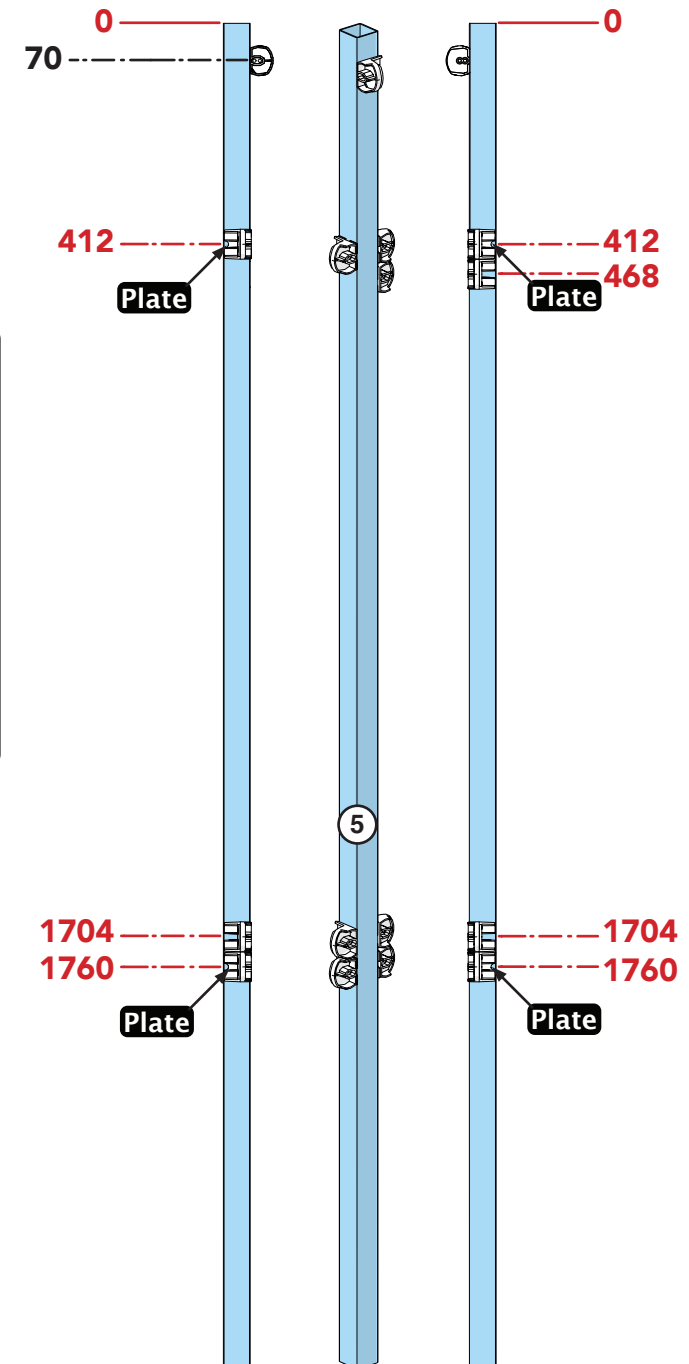
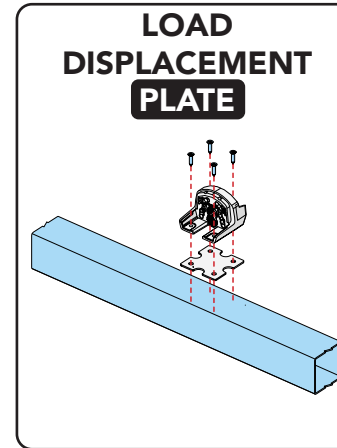
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Front Mid Post



Back Mid Post

Approximate time  
required: 1 Hour



# Universal Connector Locations

2.45m Shed

Extension - Right Side

User Manual

Read in conjunction with  
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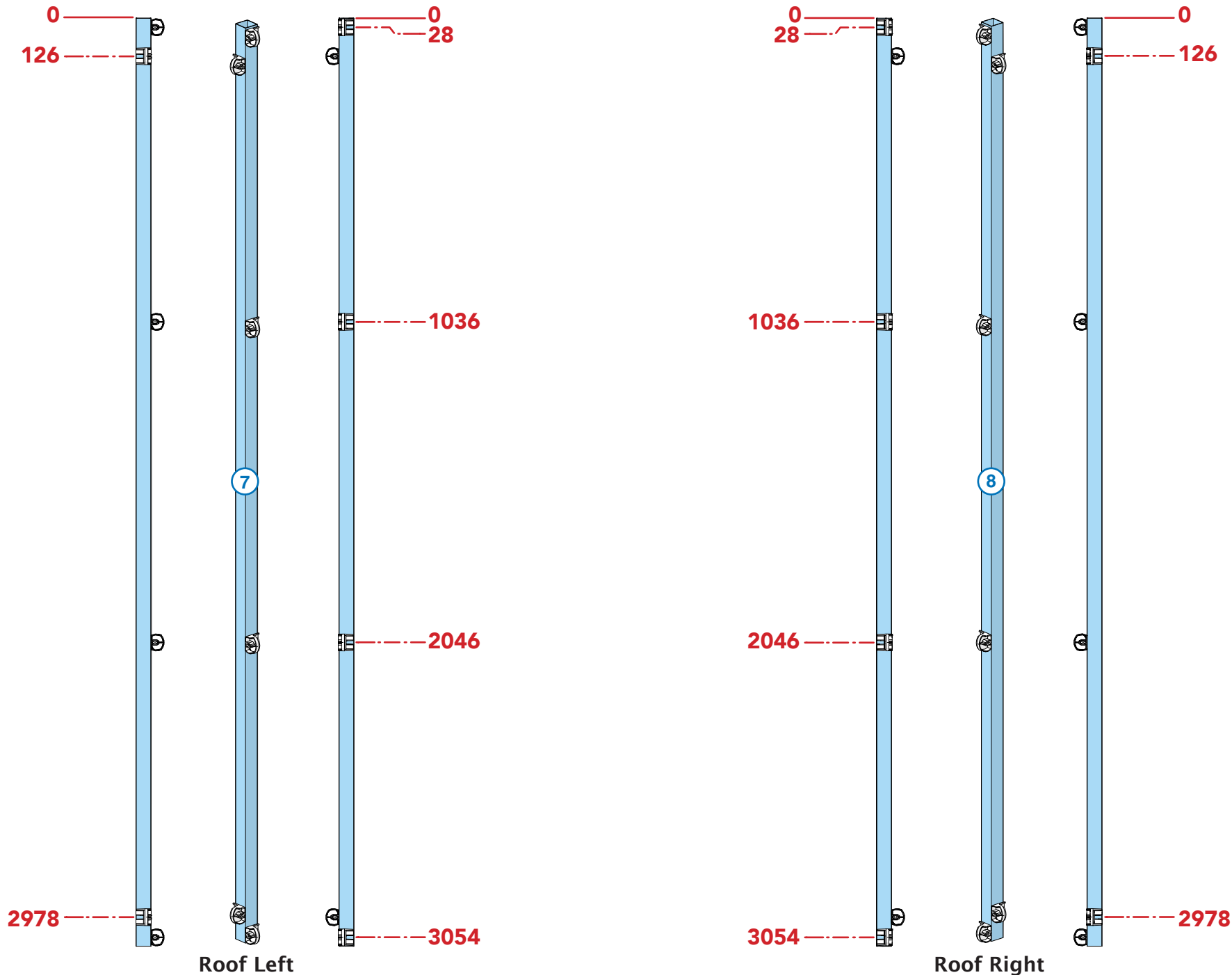
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# Universal Connector Locations

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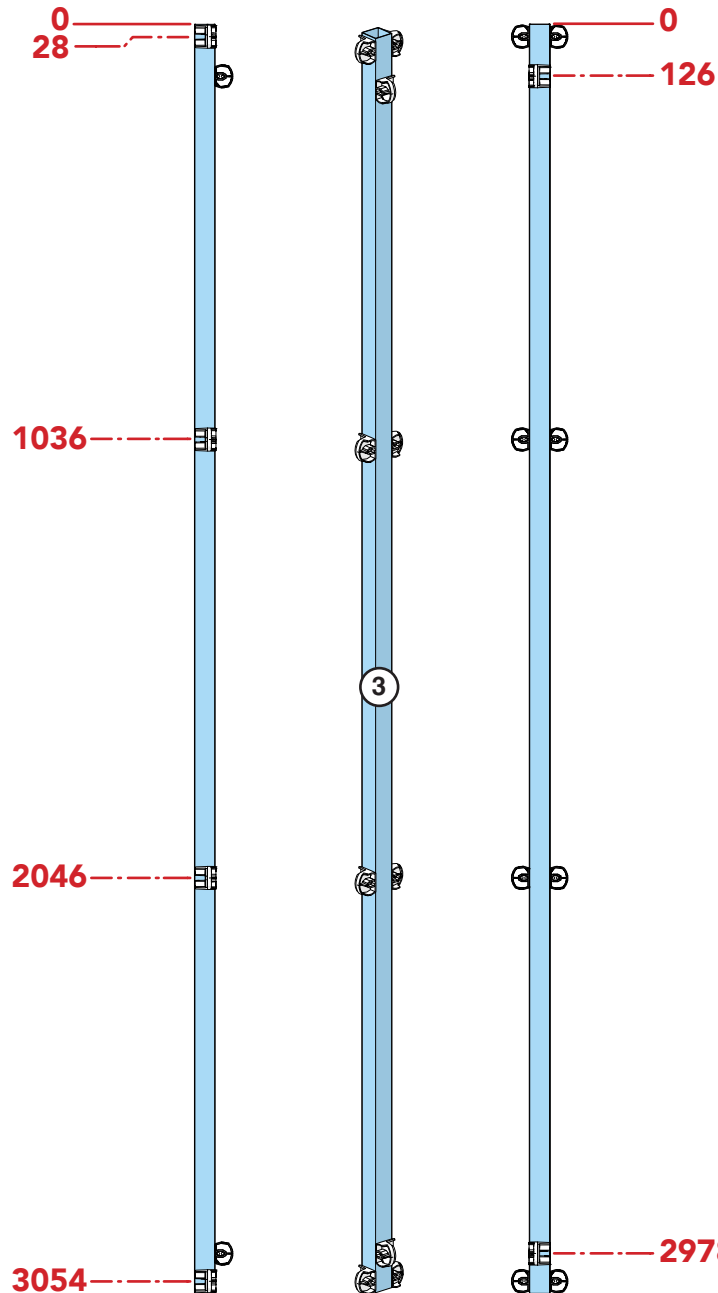
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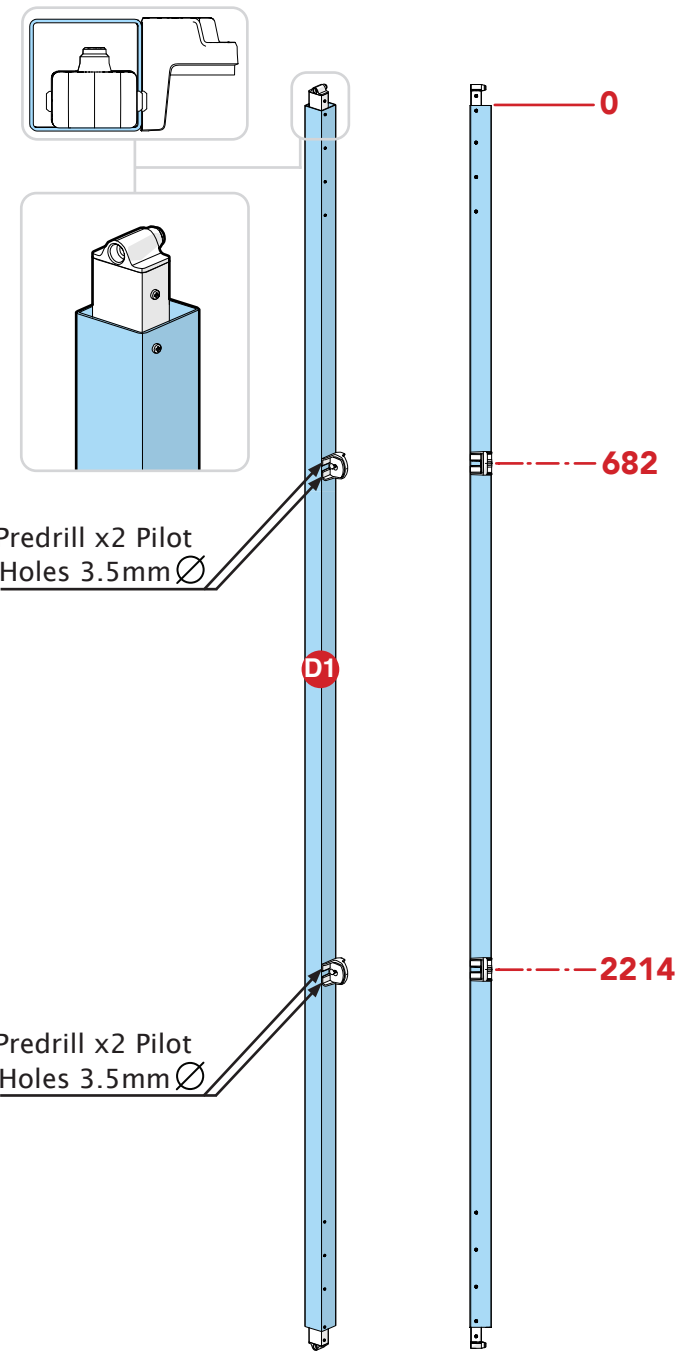
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Roof Middle



Front Mounting Member  
x 1 (Now Label D1)

Approximate time  
required: 0.75 Hour

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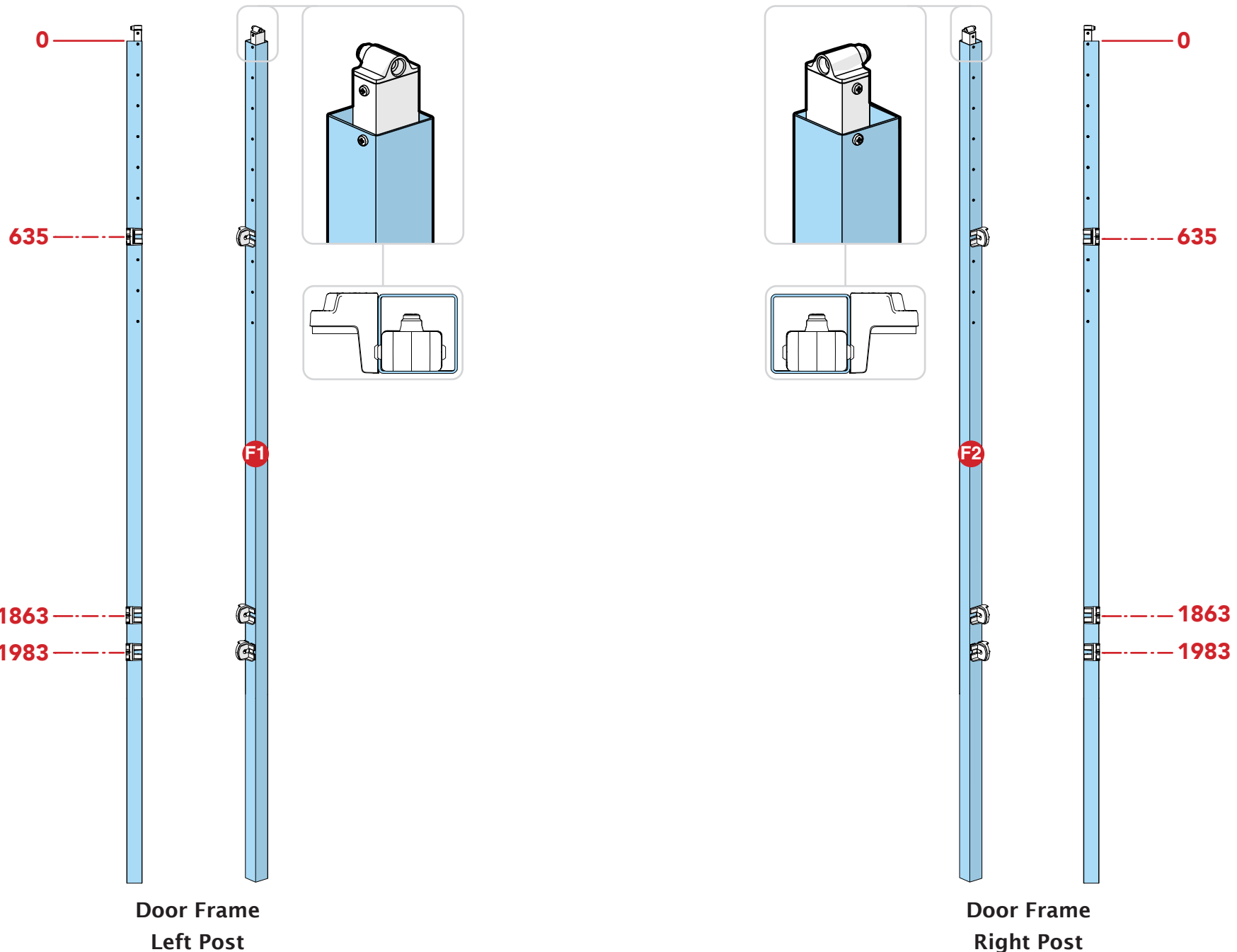
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Approximate time  
required: 0.25 Hours

# Door Post Stopper

2.45m Shed  
Extension - Right Side

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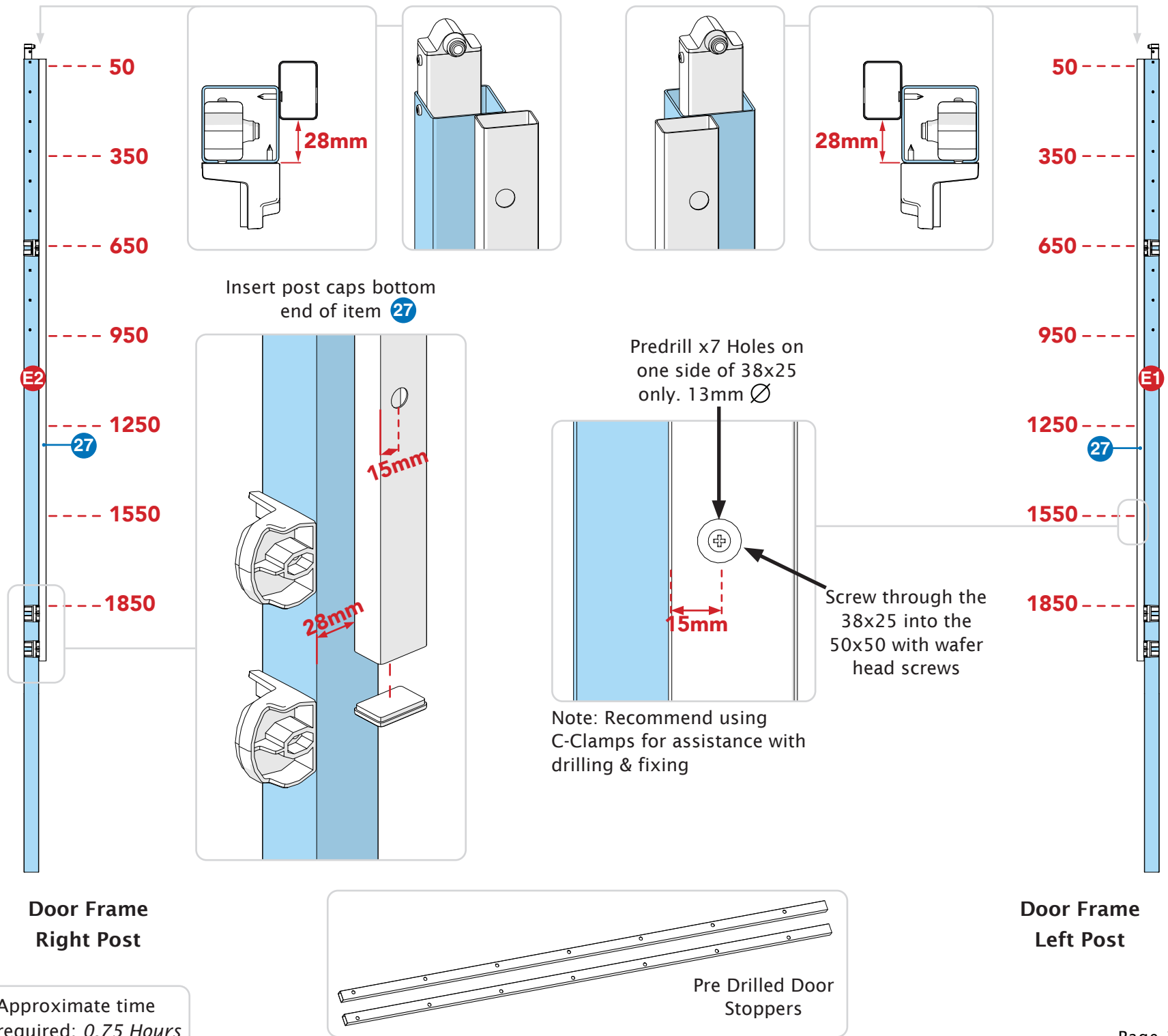
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# Universal Connector Locations

2.45m Shed

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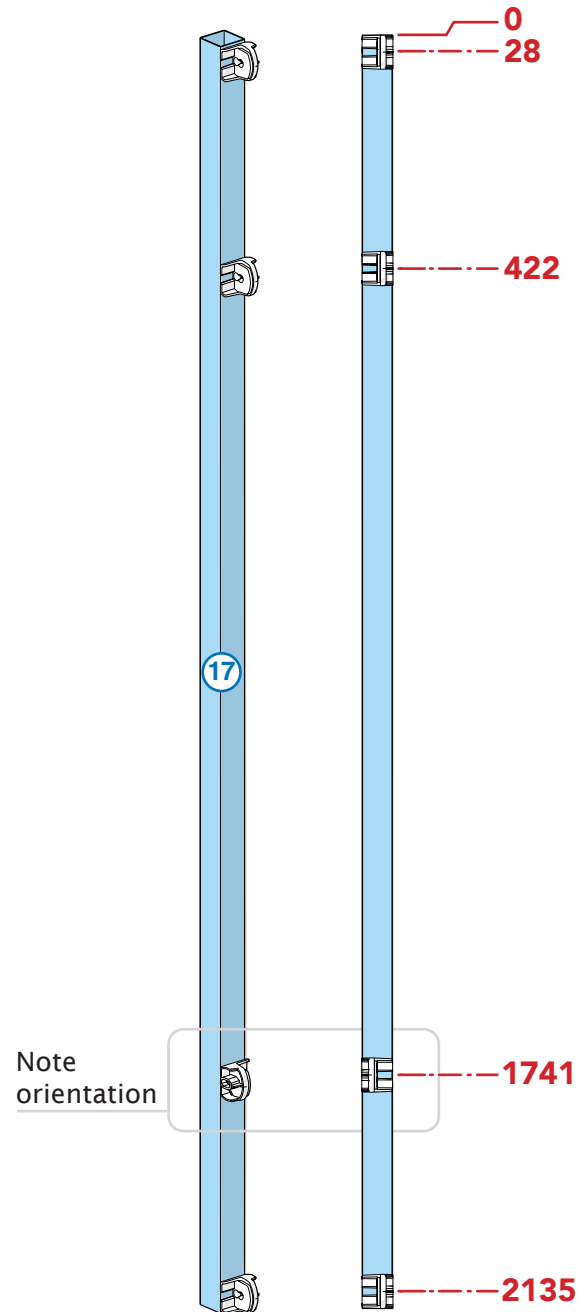
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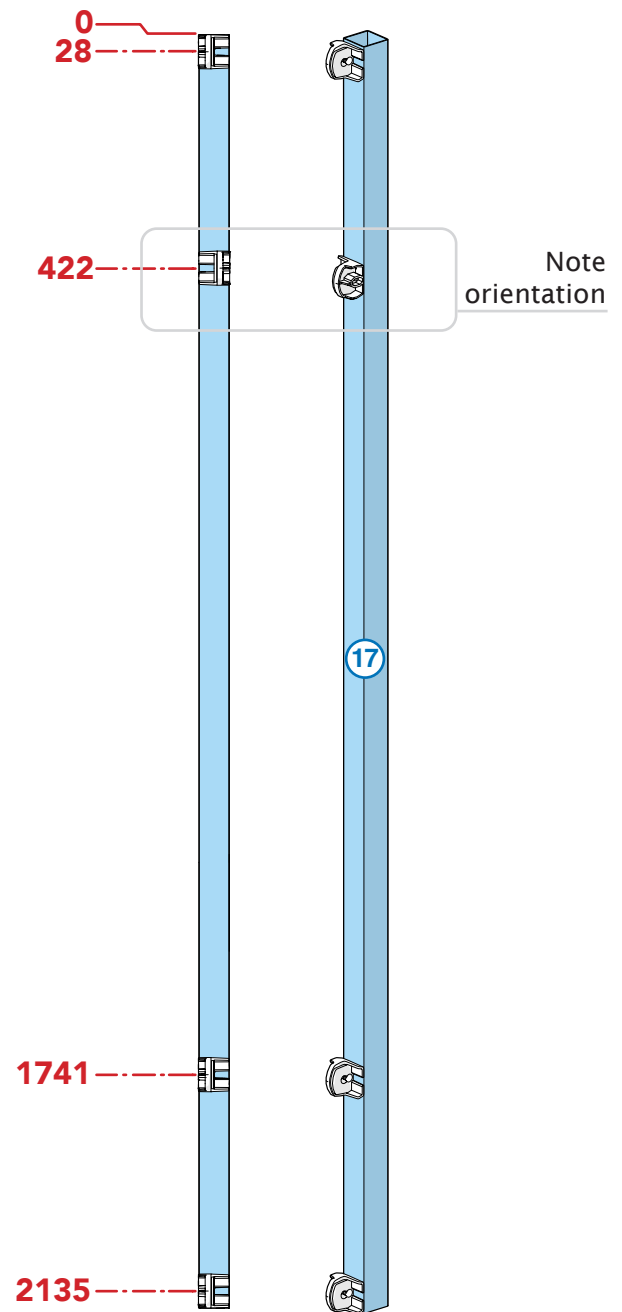
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Door Left Post



Door Right Post

Approximate time  
required: 0.25 Hours



# Ground Fixing Details

## 2.45m Shed Extension - Right Side

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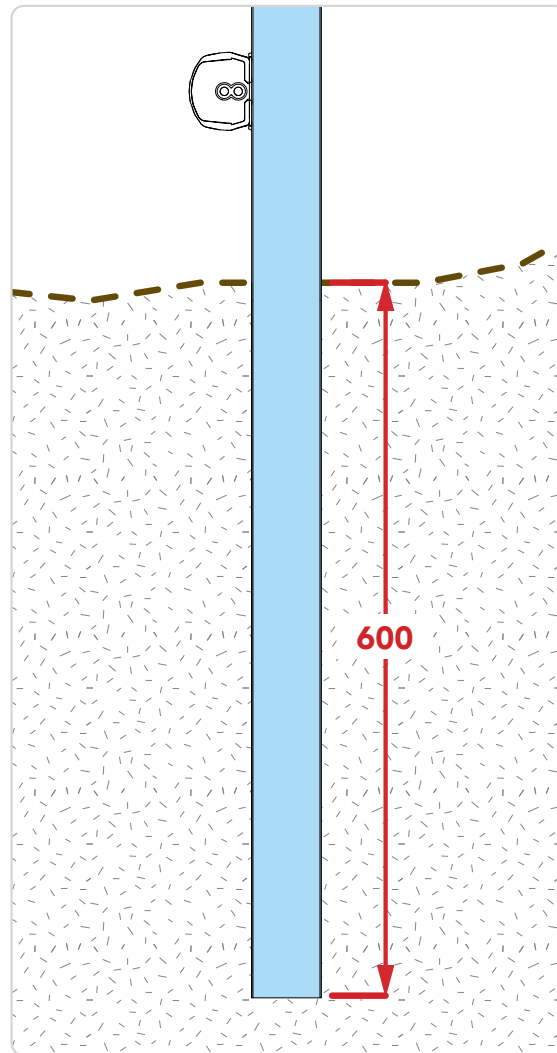
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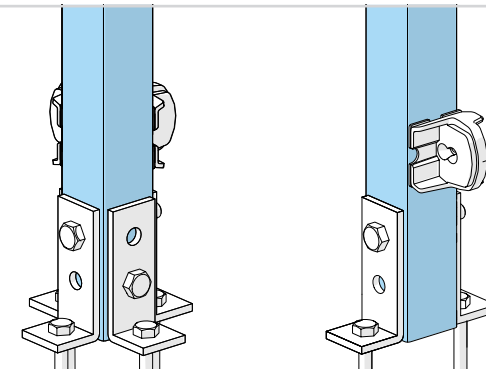


### Primary Post Fixing Method

600mm embedment into ground x  
either 450mm diameter OR 400mm  
square hole.

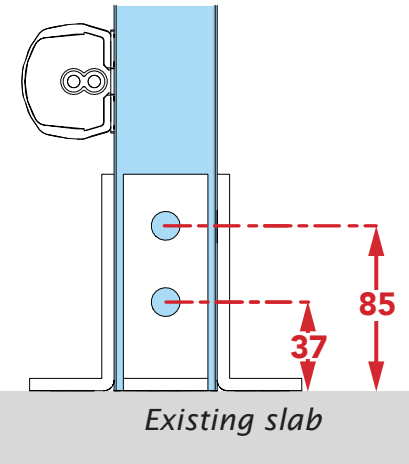
Concrete minimum compressive  
strength of 15 MPa.

(Applies to both fixing scenarios)



Corner posts have L brackets  
all 4 sides.

Door posts only have 2 on the  
front & back.



### Secondary Post Fixing Method

Assumed existing slab to be minimum 100mm thick &  
in sound structural condition.

L Bracket fixed to posts via m12x75 4.6 Hex Head Galv  
Bolt/Nut. Use a 13mm metal drill bit to drill hole.

Fixed into concrete with 4 x Dynabolt DP12100GH  
M10 12x100mm Galv Hex Nut, 70mm min edge  
distance. Use a 12mm masonry drill bit to drill hole.

L Bracket drilling  
dimensions for post based  
off flat level surfaces.  
Recommend marking and  
drillings holes after  
framework has been  
erected if the surface  
is not level.  
Use a 13mm metal drill bit  
to drill hole.

# Ground Fixing Details

2.45m Shed  
Extension - Right Side

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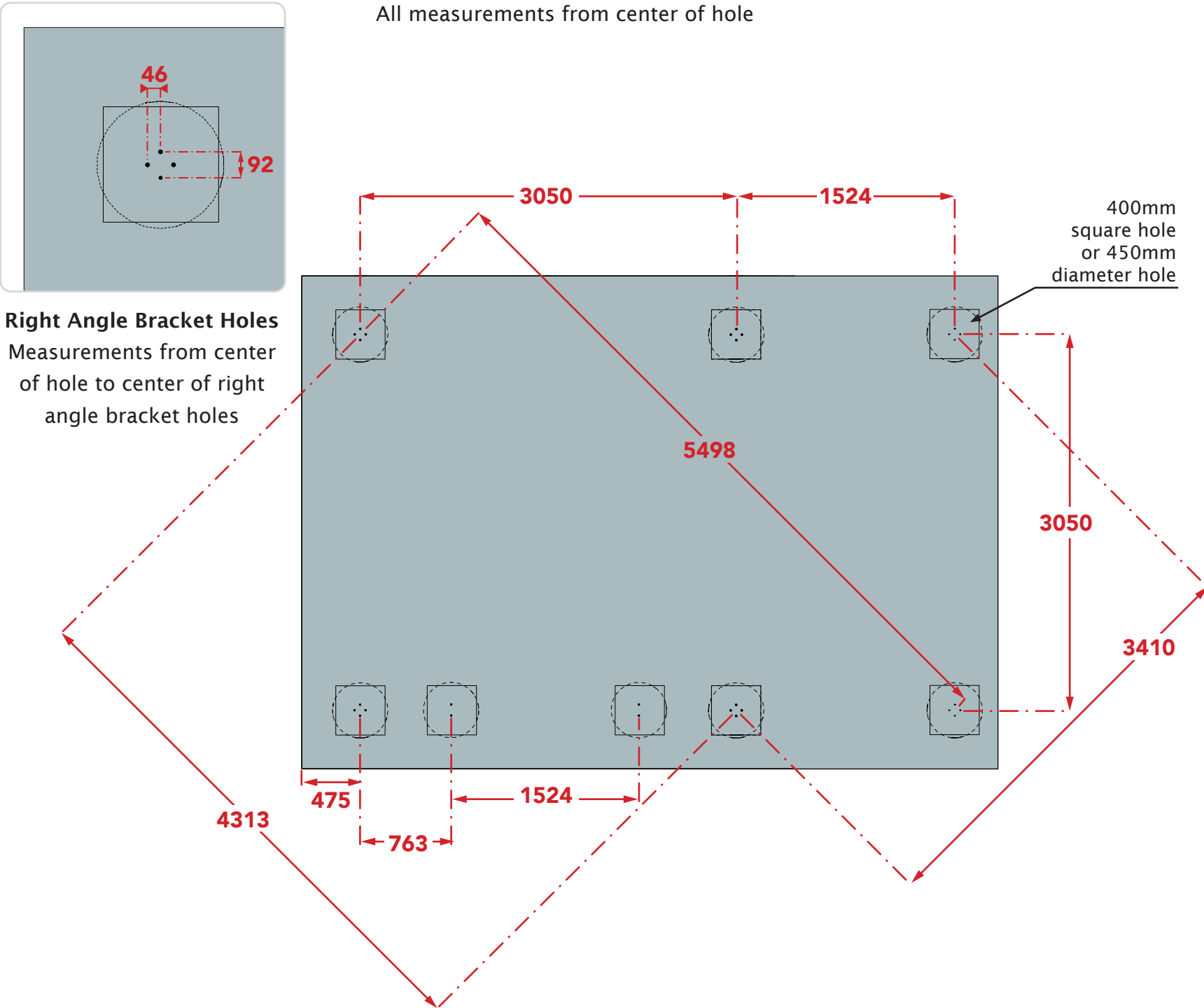
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## Hole measurements

All measurements from center of hole



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Extension - Right Side

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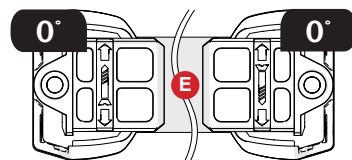
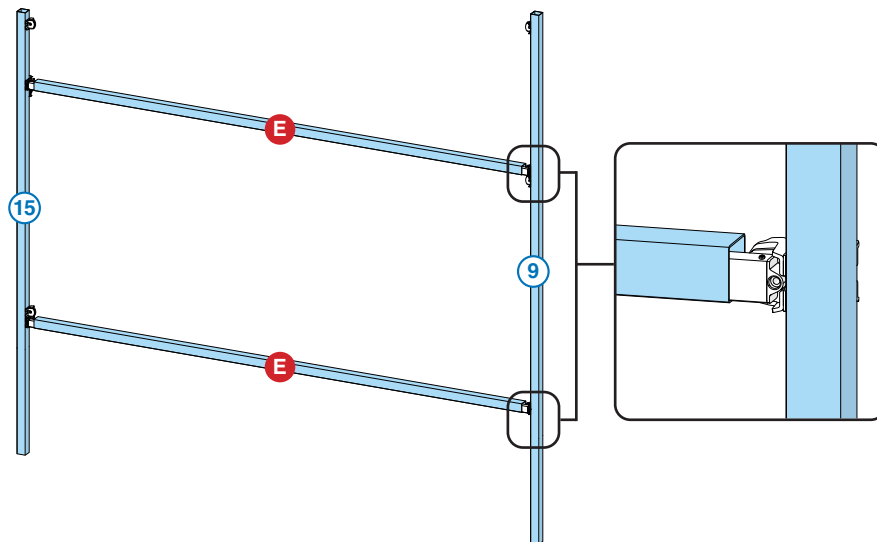
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**Build Left Wall**  
Construct on the ground.  
(Images show frames upright for clarity)

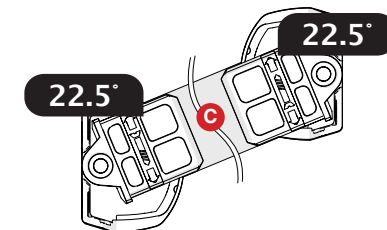
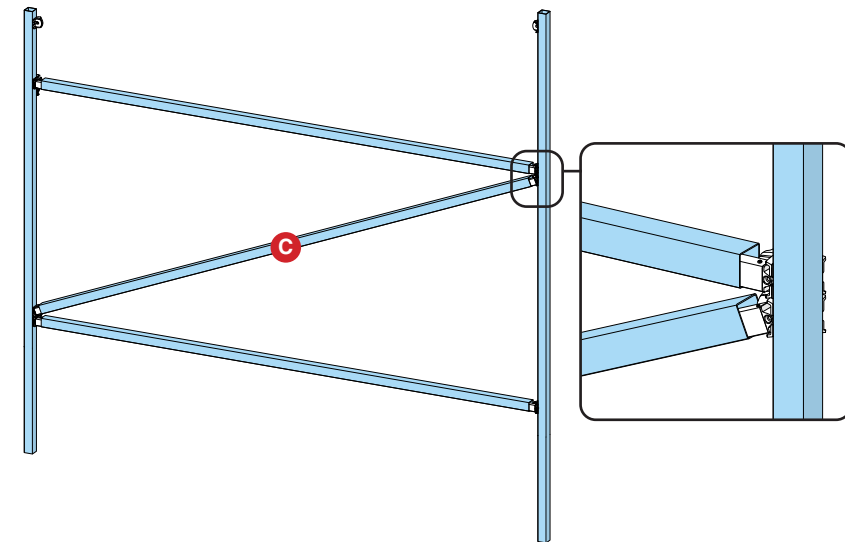
## Step 1

Attach 2 rail items below



## Step 2

Attach the rail below



Approximate time  
required: 0.25 Hours

# Assembly Sequence

2.45m Shed  
Extension - Right Side

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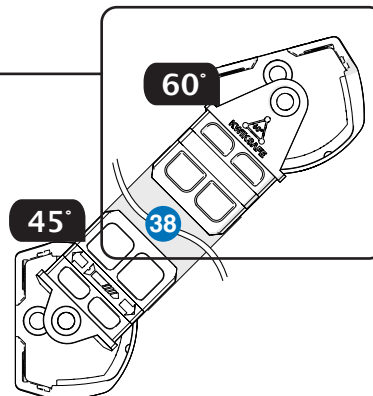
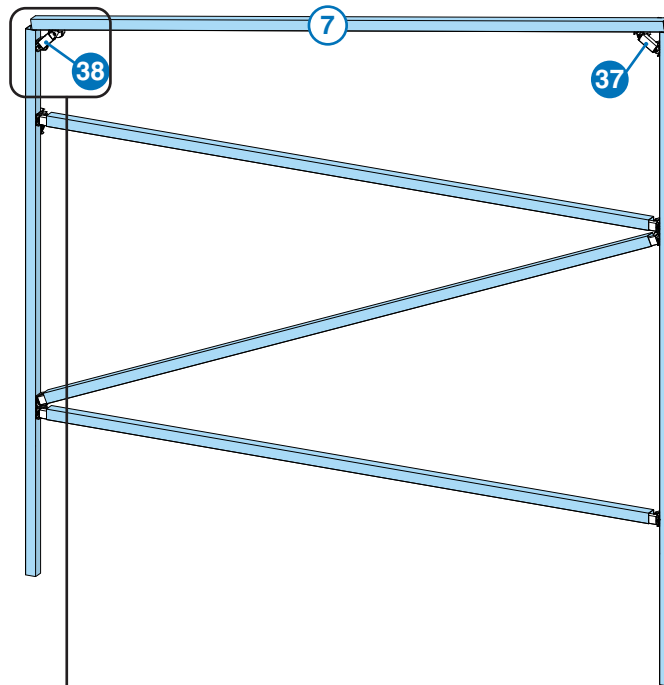
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## Build Left Wall

Construct on the ground.  
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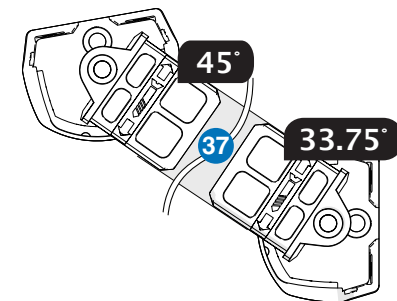
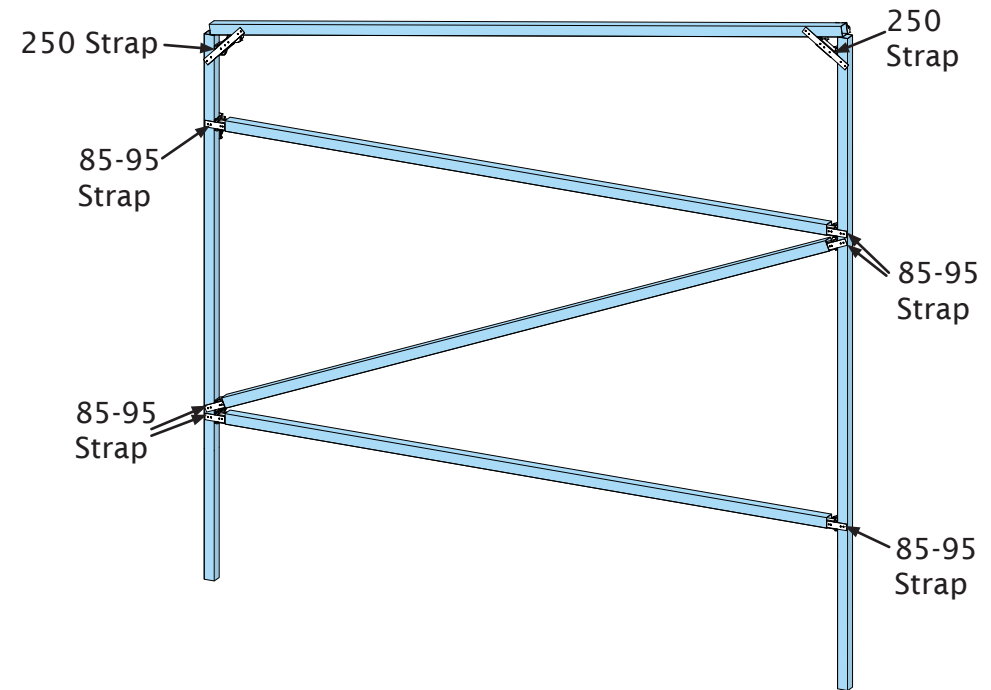
### Step 3

Attach 3 rail items below



### Step 4

Fix tension strapping to framing



Approximate time  
required: 0.25 Hours

# Assembly Sequence

2.45m Shed  
Extension - Right Side

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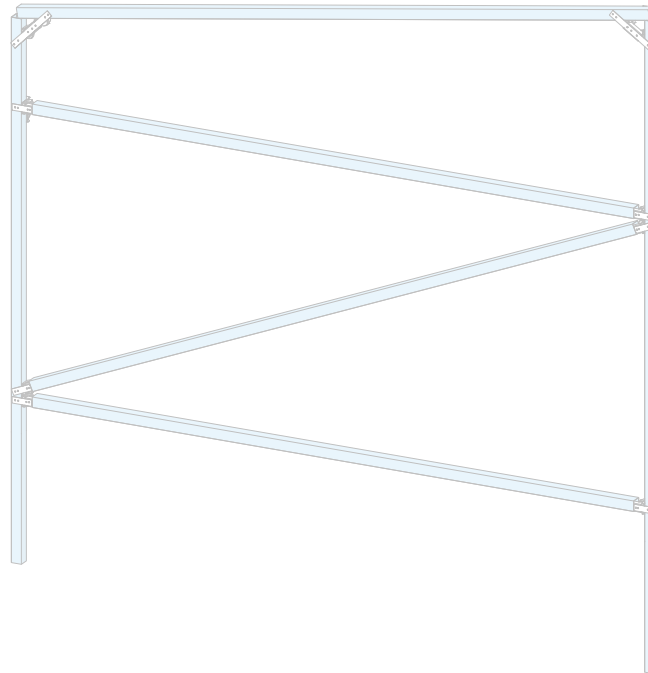
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## Build Right Wall

Right side assembly steps the  
same as the left but mirrored.

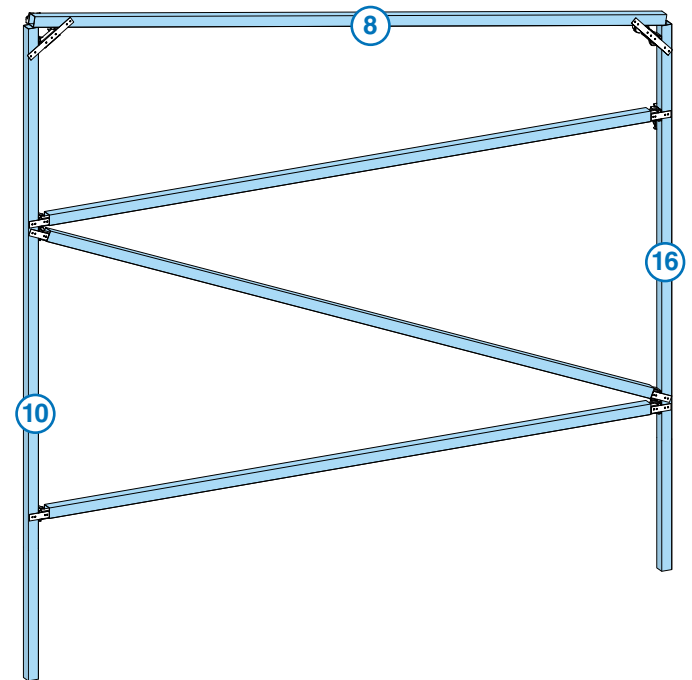
### Step 5

Left wall finished



### Step 6

Repeat previous steps for right wall



Approximate time  
required: 0.5 Hours



# Assembly Sequence

2.45m Shed  
Extension - Right Side

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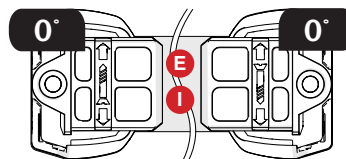
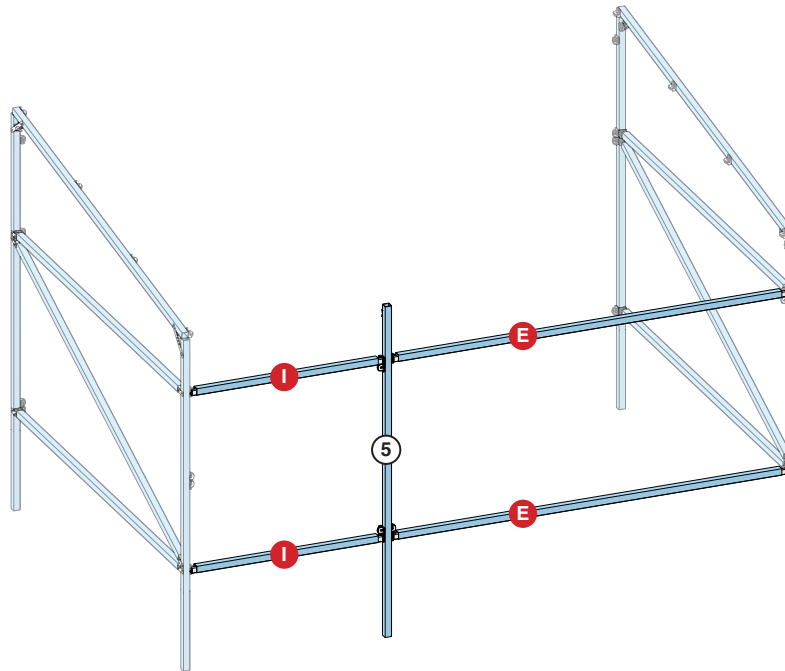
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## Fix together with Back

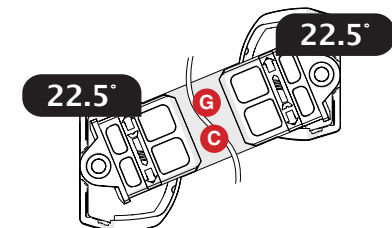
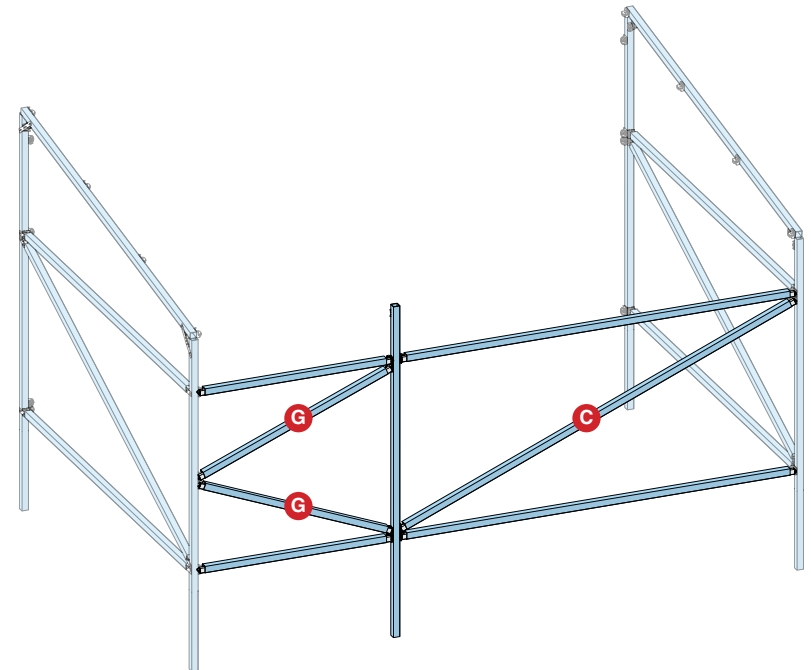
### Step 1

Attach the sides together via  
the 5 rail items below



### Step 2

Attach the 3 rail items below



Approximate time  
required: 0.25 Hours

# Assembly Sequence

2.45m Shed  
Extension - Right Side

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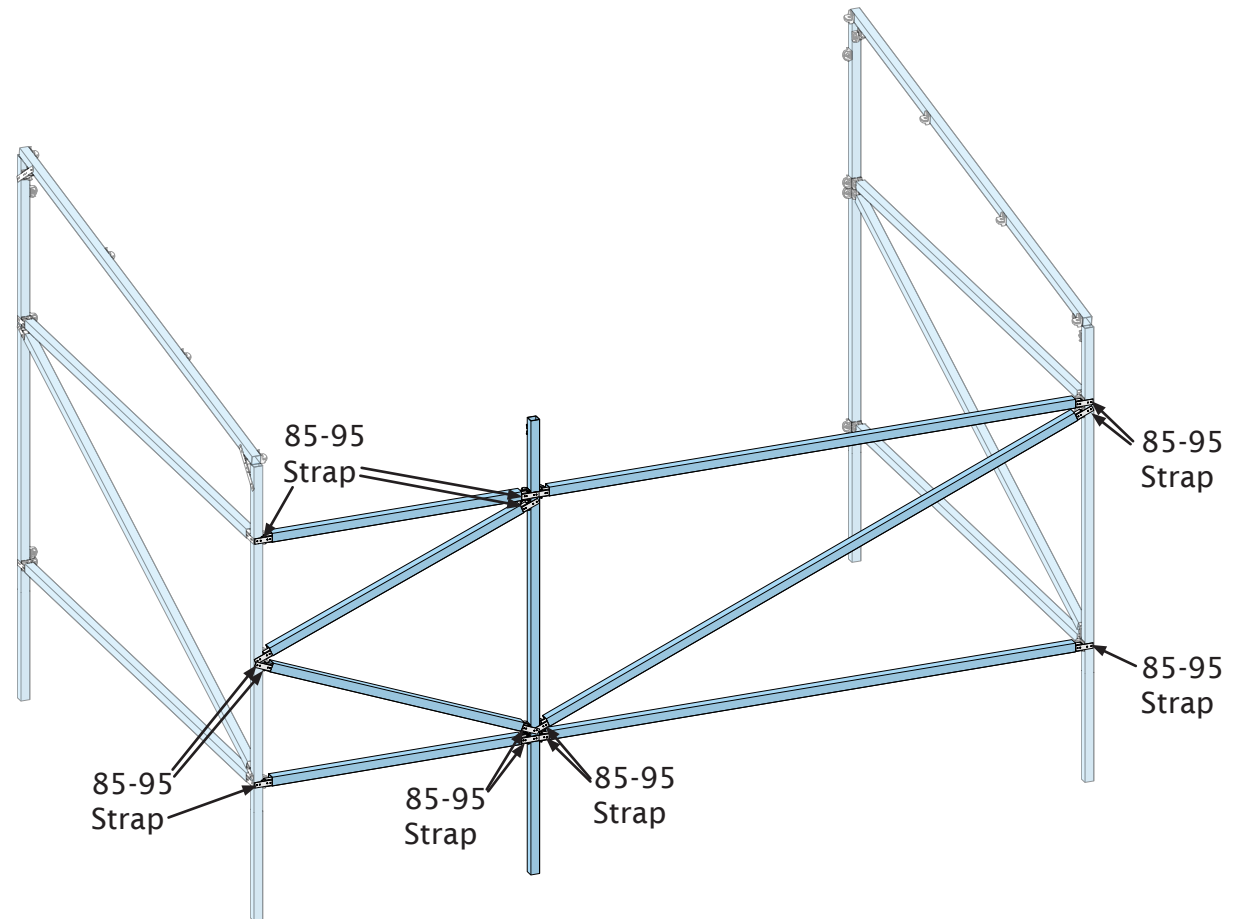
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Fix together with Back

## Step 3

Fix tension strapping to framing



Approximate time  
required: 0.25 Hours

# Assembly Sequence

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Extension - Right Side

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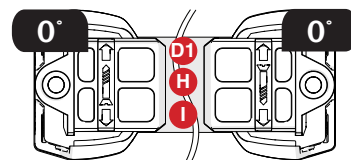
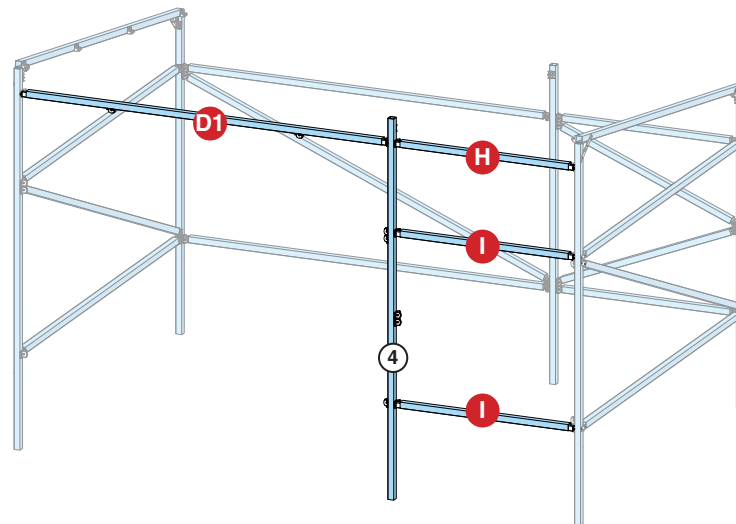
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## Fix Walls Together with Front members

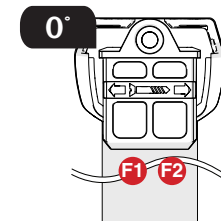
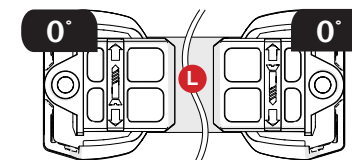
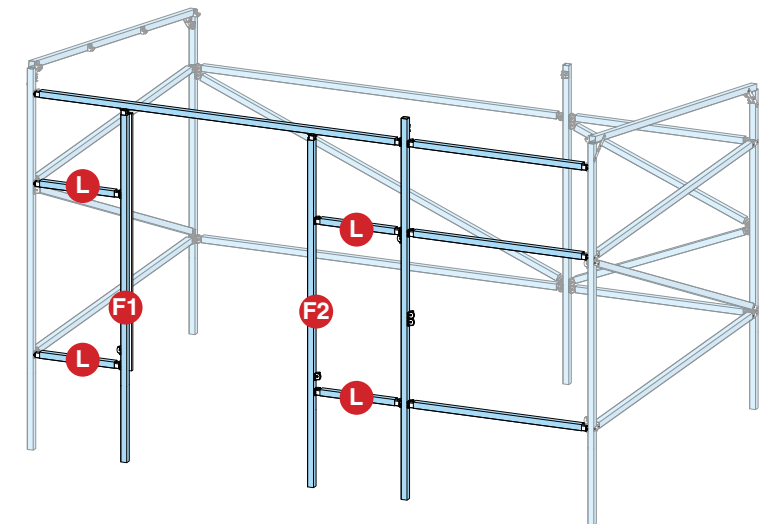
### Step 1

Attach the sides together via the 5 rail items



### Step 2

Attach the 6 rail items below



Approximate time  
required: 0.25 Hours

# Assembly Sequence

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Extension - Right Side

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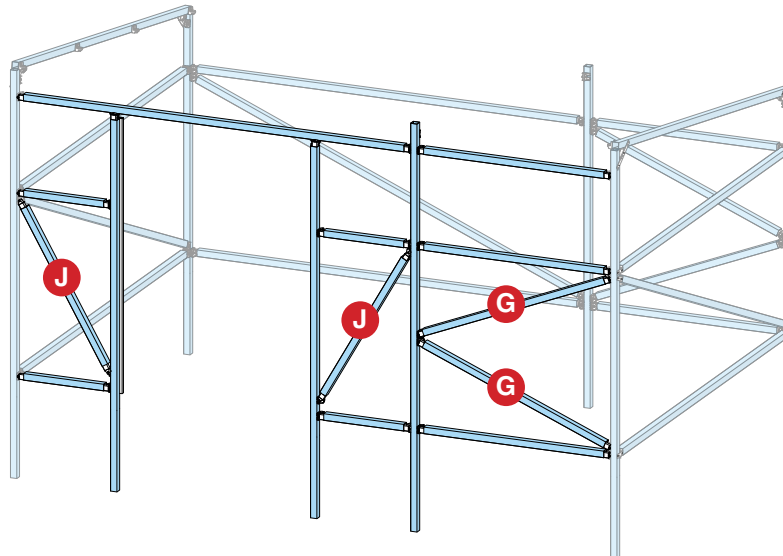
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Fix together with Front

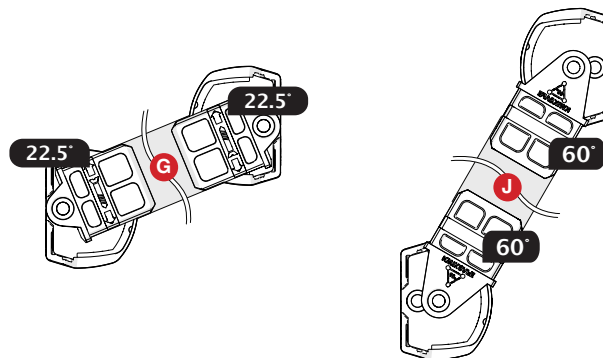
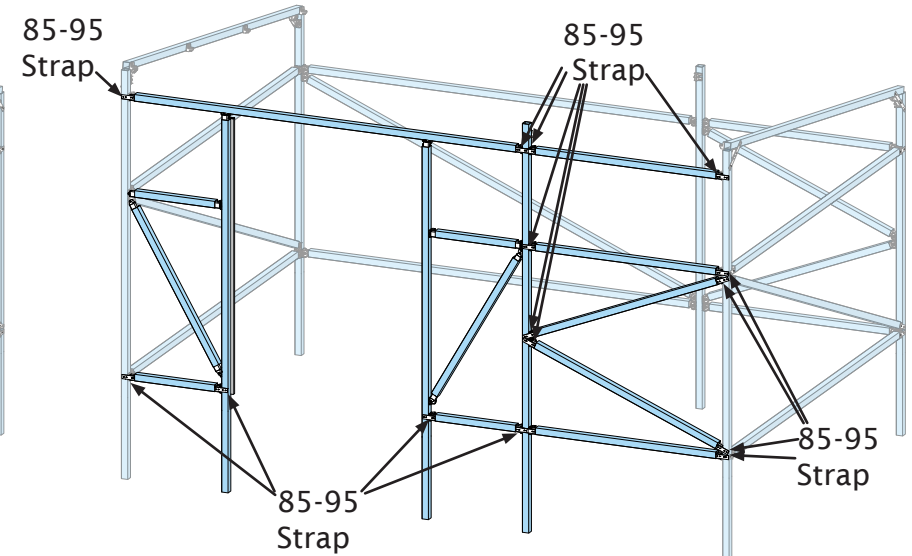
## Step 3

Attach 2 rail items below



## Step 4

Fix tension strapping to framing



Approximate time  
required: 0.75 Hours

# Temporary Corner Stiffeners

2.45m Shed  
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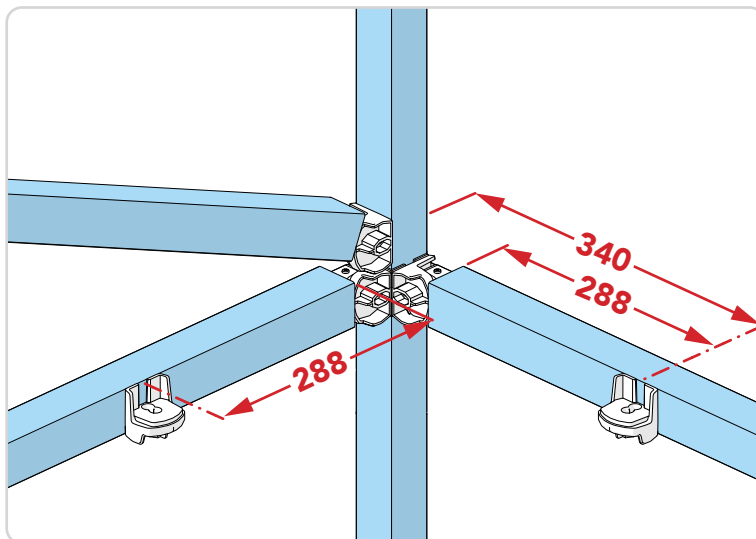
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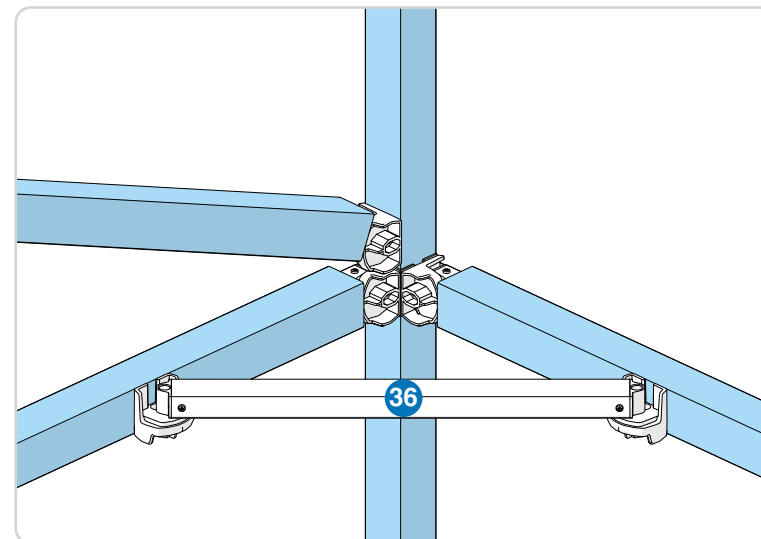
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Optional Bracing if DIY  
frame kit was purchased.

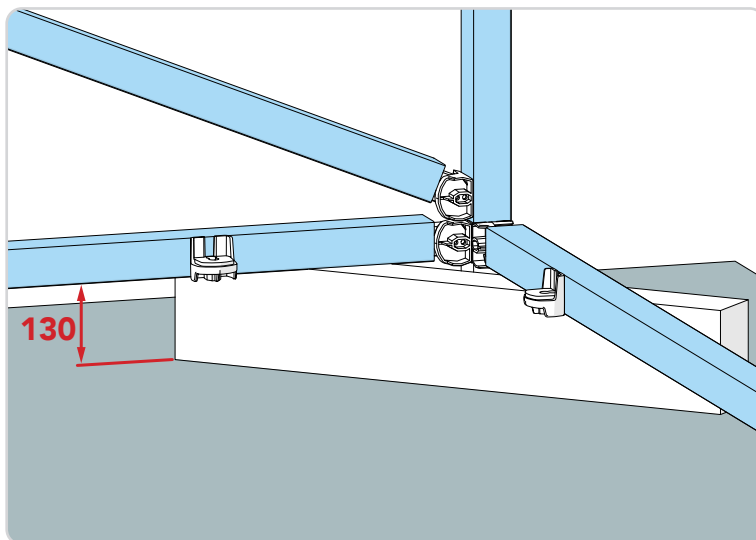
Optional temporary base corner stiffeners



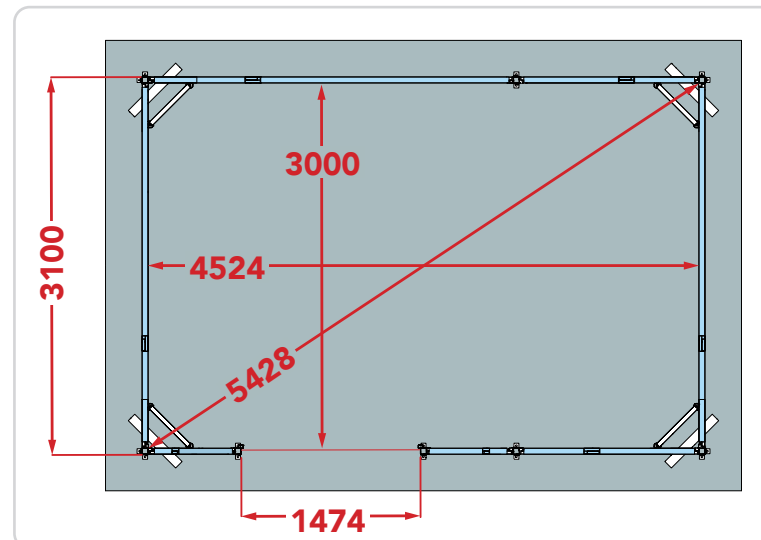
Fix 2 Universal connectors in the positions shown in  
all 4 corners.



Fit Item 30 into the corners to tie shed square  
before ground fixing. Once secured to ground,  
remove these bases & the universal connectors.



Pack approximately 130mm and shim as required to  
achieve a level shed. Use a spirit level to check  
horizontal members.



Push or pull shed corners as required to assist in  
fitting the corner bracing. Ensure dimensions match  
the ones stated above before fixing.  
Additional supports maybe required.

Approximate time  
required: 0.5 Hours



# Assembly Sequence

2.45m Shed  
Extension - Right Side

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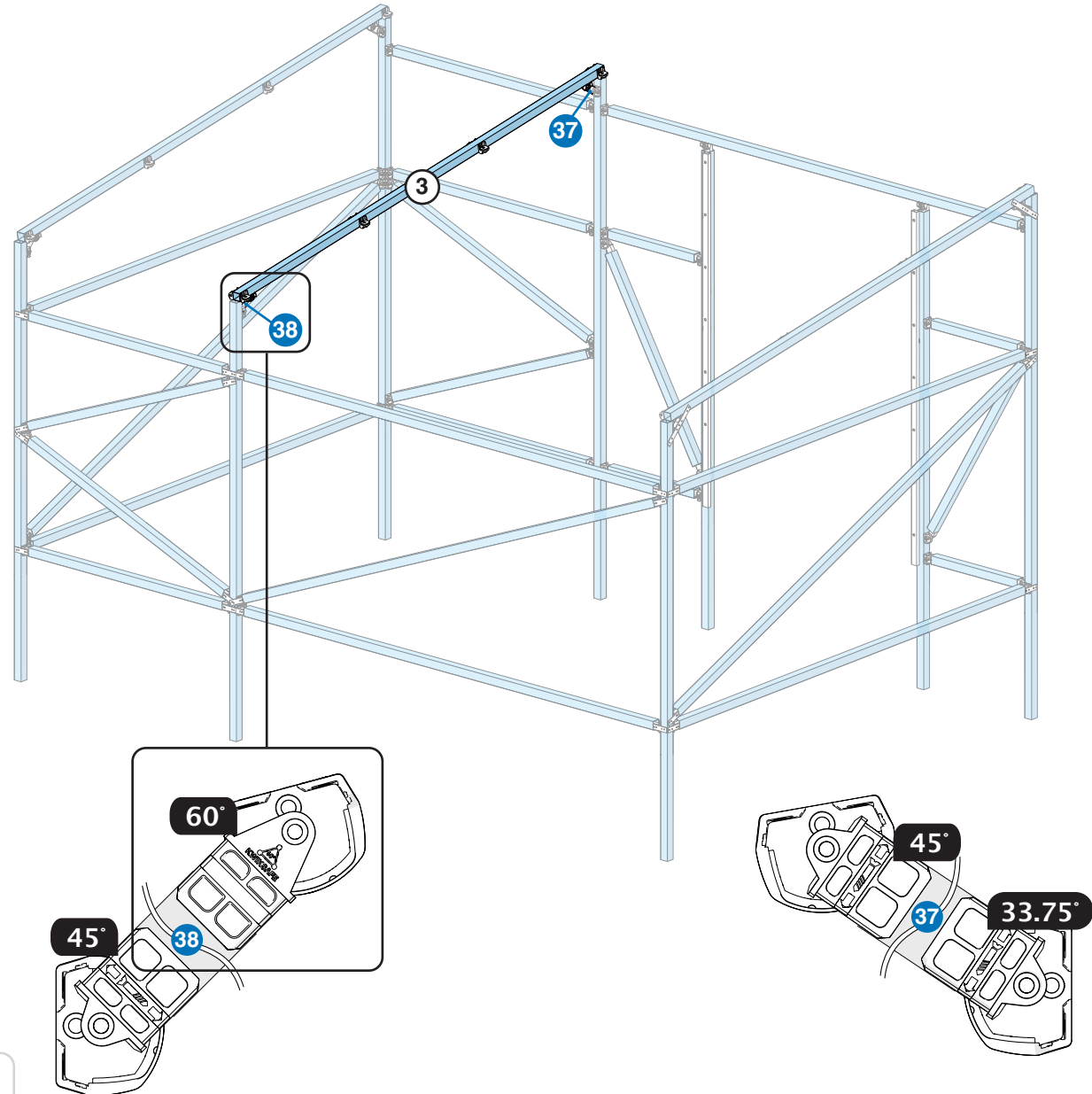
All dimensions are in millimeters  
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## Tie square with Roof

### Step 1

Attach the 3 rail items below



Approximate time  
required: 0.25 Hours

# Assembly Sequence

2.45m Shed  
Extension - Right Side

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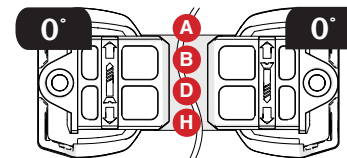
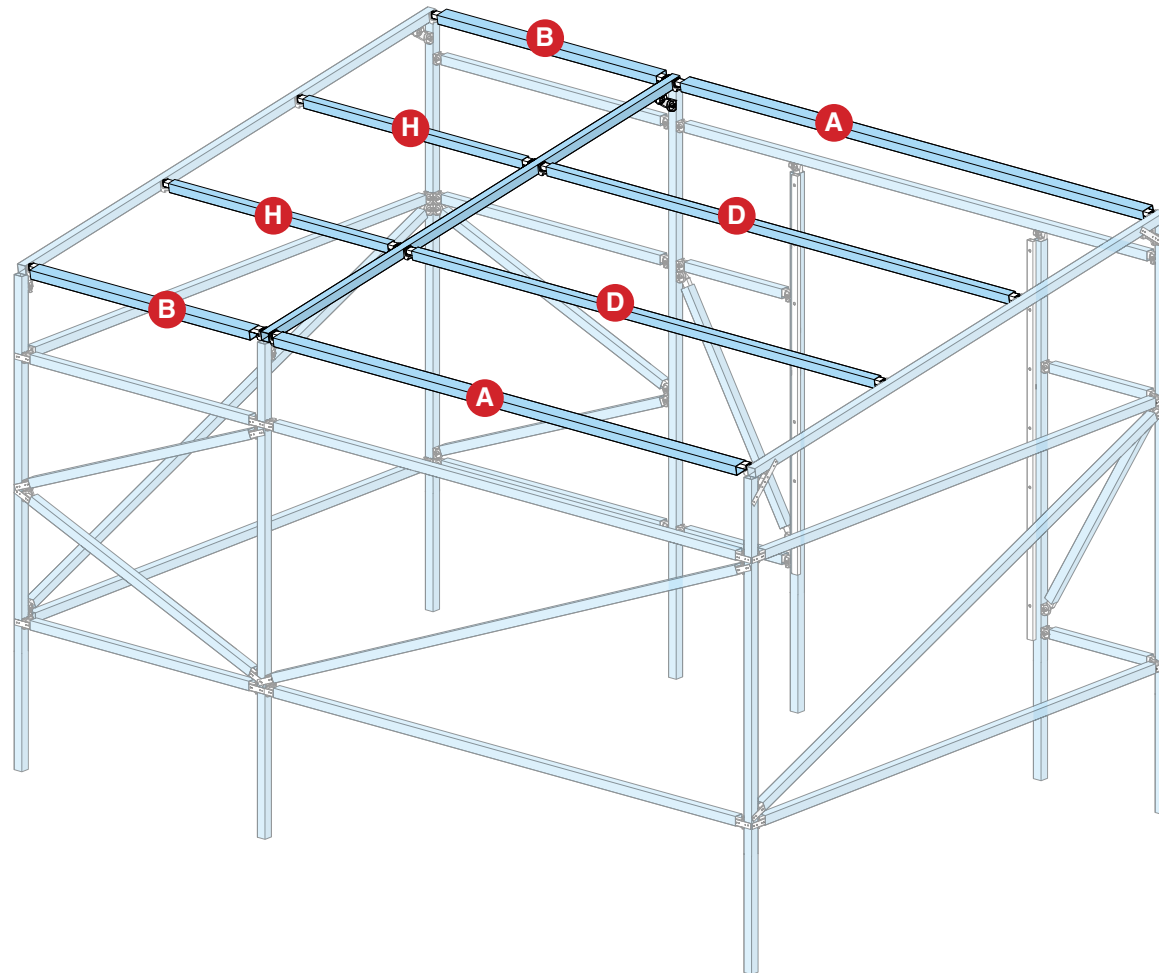
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## Tie square with Roof

### Step 2

Attach the 8 rail items below



Approximate time  
required: 0.25 Hours

# Flashing Types

## 2.45m Shed Extension - Right Side

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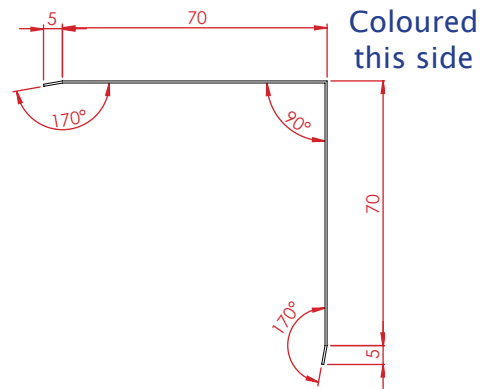
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**FL 1**

**KT-FLP-01**  
4684mm  
0.42 BMT  
QTY: 1

**FL 3**

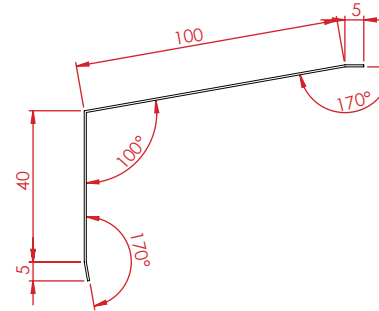
**KT-FLP-01**  
3310mm  
0.42 BMT  
QTY: 2

**FL 4**

**KT-FLP-01**  
2450mm  
0.42 BMT  
QTY: 2

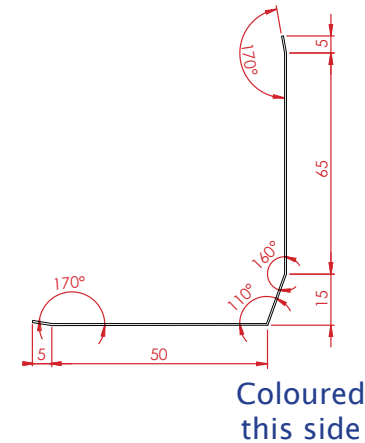
**FL 7**

**KT-FLP-01**  
1950mm  
0.42 BMT  
QTY: 2



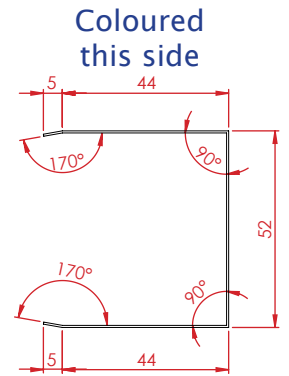
**FL 2**

**KT-FLP-02**  
4630mm  
0.42 BMT  
QTY: 1



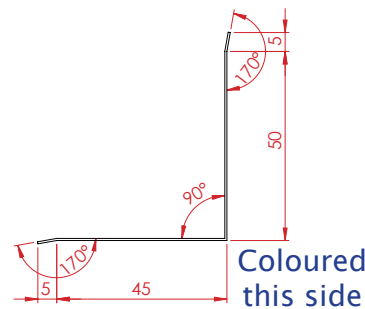
**FL 5**

**KT-FLP-03**  
2172mm  
0.42 BMT  
QTY: 2



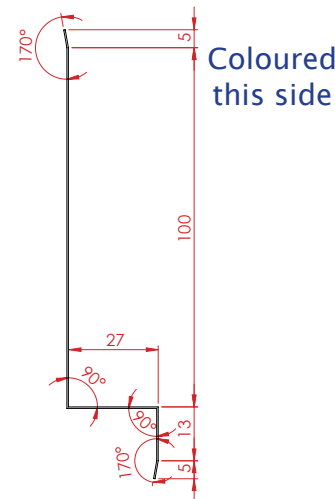
**FL 6**

**KT-FLP-04**  
2165mm  
0.42 BMT  
QTY: 2



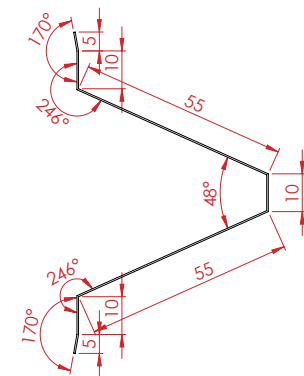
**FL 8**

**KT-FLP-05**  
1590mm  
0.42 BMT  
QTY: 1



**FL 9**

**KT-FLP-07**  
1518mm  
0.42 BMT  
QTY: 1



**FL 10**

**KT-FLP-06**  
40mm  
1.2 Galv  
QTY: 1

# Internal Flashings

## 2.45m Shed Extension - Right Side

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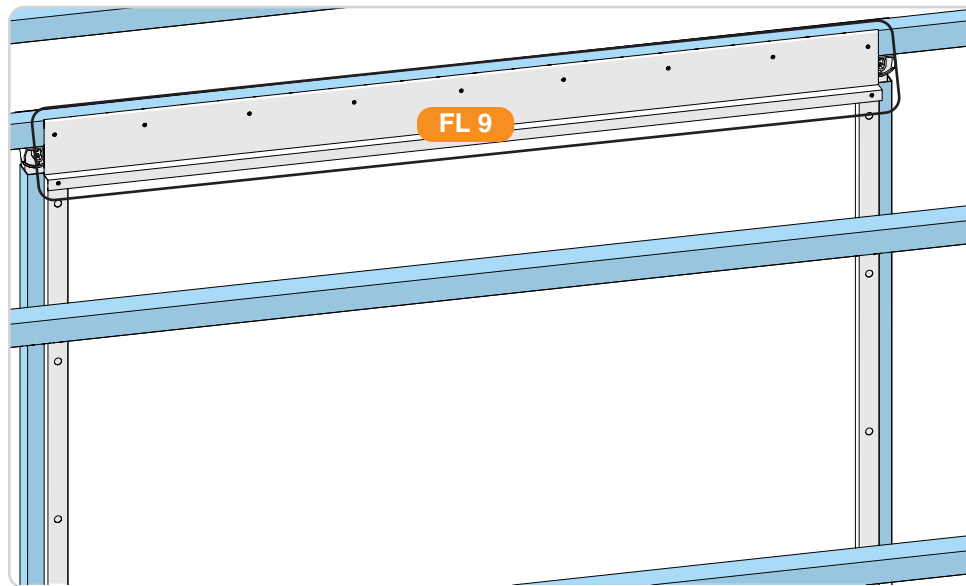
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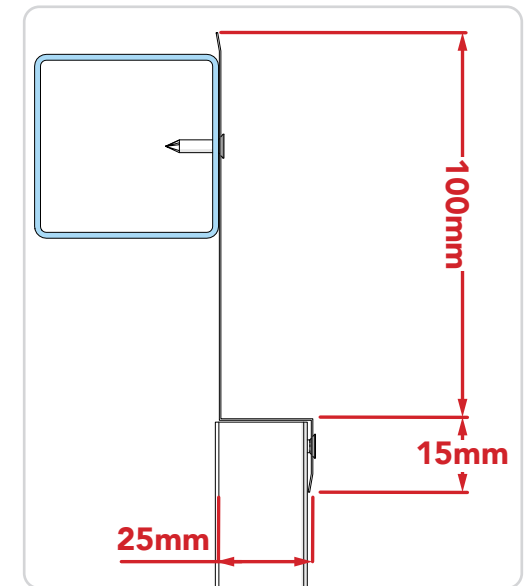
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9 x 10gx16mm Self-Drilling flat top screws used to fix **FL 9** to SHS frame. Screws evenly spaced. Ends of **FL 9** to be flush with outer face of door stoppers. Then fix to the door stoppers with 1 Self-Drilling flat top screw each end.



Flashing dimensions

Approximate time  
required: 1 Hour

# Door Assembly

2.45m Shed  
Extension - Right Side

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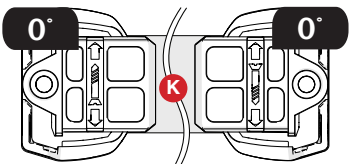
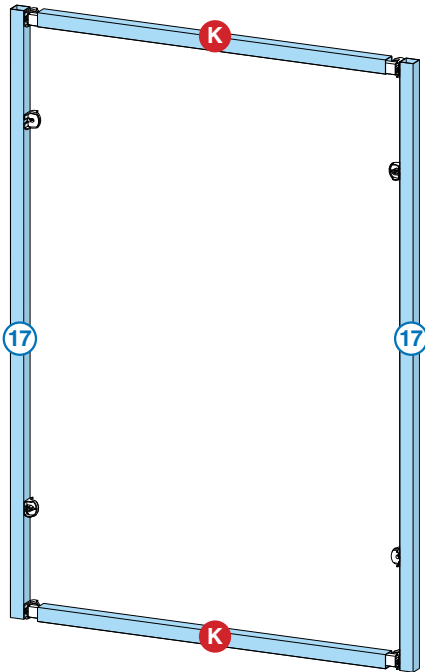
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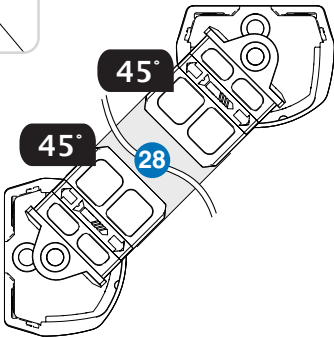
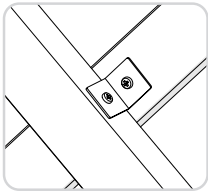
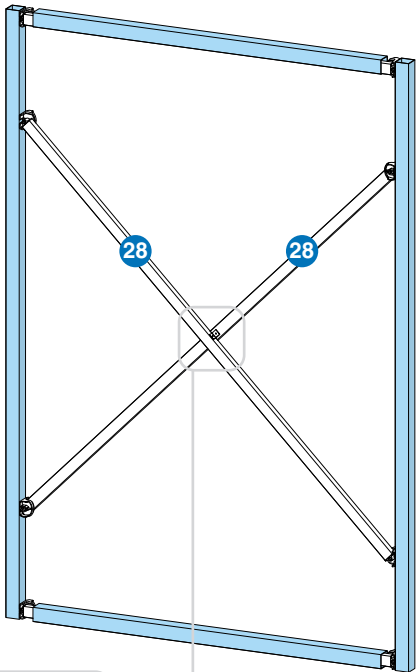
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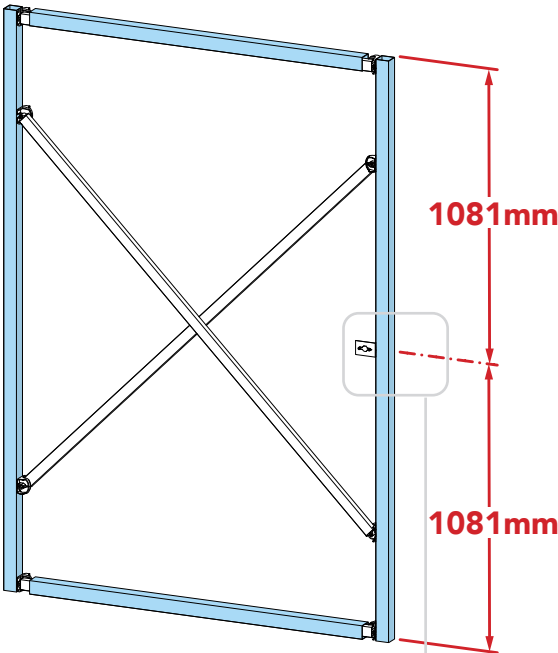
**Step 1**  
Attach 2 rail items below



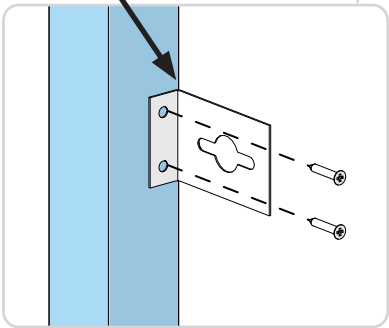
**Step 2**  
Attach 2 rail items below



**Step 3**  
Fix handle plate to post



Front faces flush. Fix with 2  
x wafer head screws.



View from back of door

Approximate time  
required: 0.5 Hours

# Door Assembly

2.45m Shed  
Extension - Right Side

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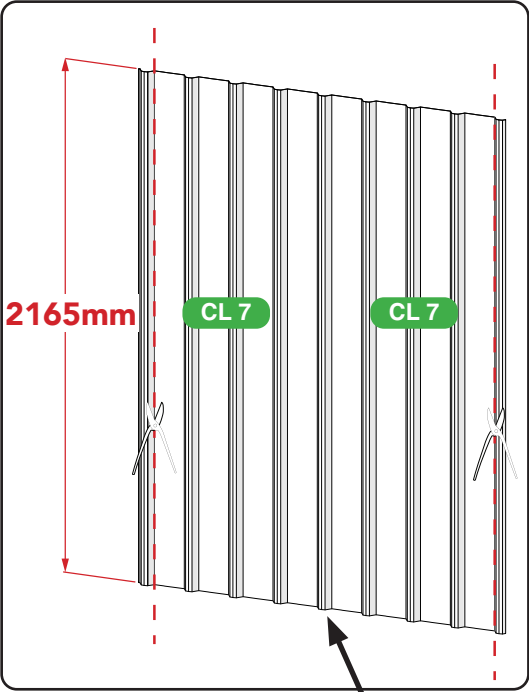
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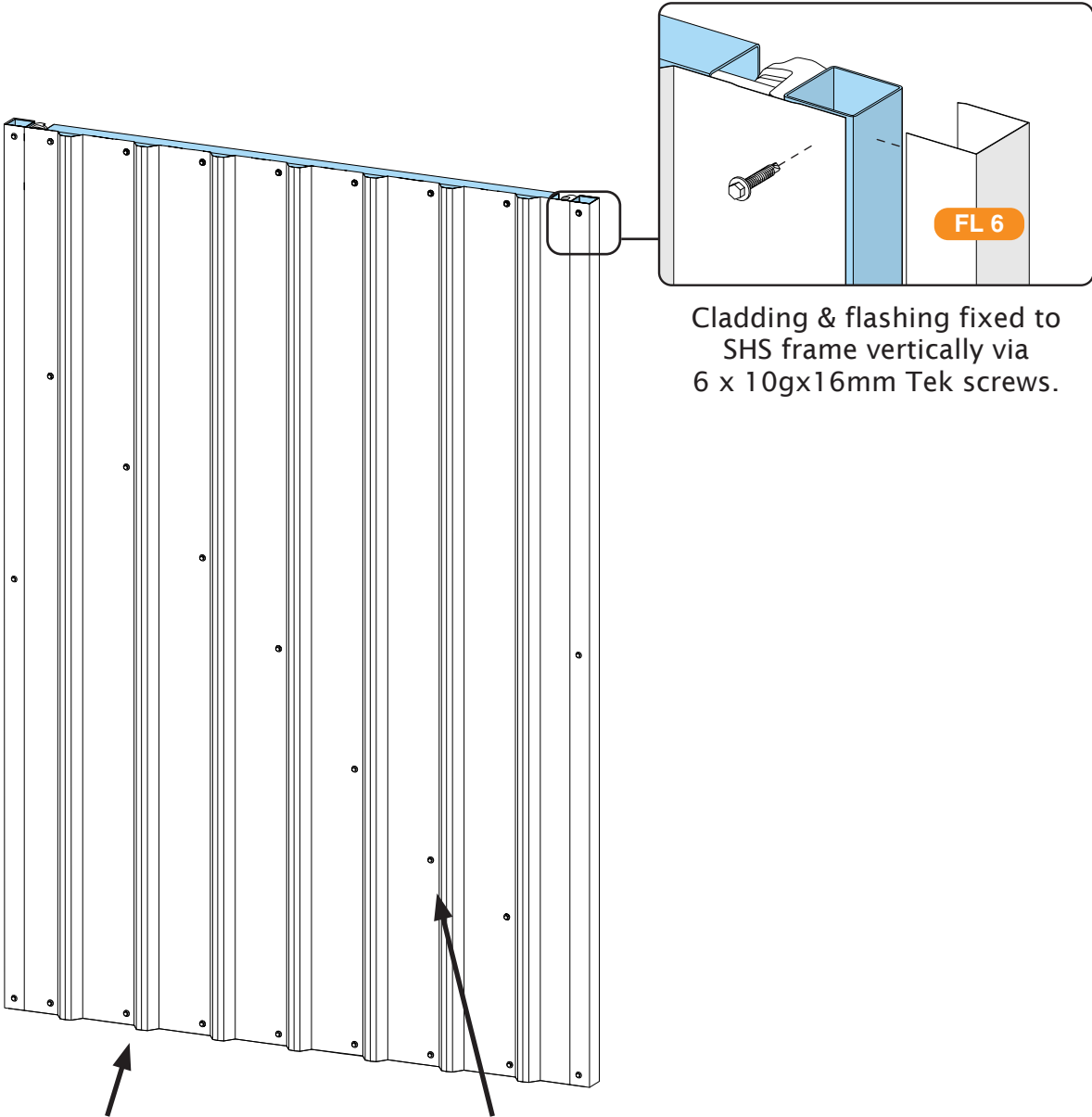
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## Step 4

Attach cladding & flashings



Door cladding to be overlapped in  
the middle & the outer peak on both  
sides to be trimmed off before fixing  
onto the SHS door frame.



Cladding & flashing fixed to  
SHS frame vertically via  
6 x 10gx16mm Tek screws.

Fix cladding to steel  
horizontally top & bot-  
tom with 10gx16mm Tek  
screws before every peak

Fix cladding to  
diagonal brace with  
10gx16mm Tek screws  
before every peak

Approximate time  
required: 0.5 Hours

# Door Assembly

2.45m Shed  
Extension - Right Side

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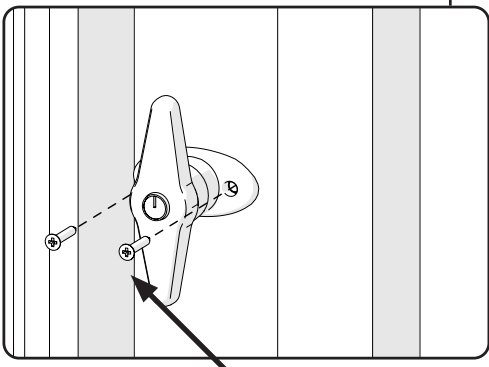
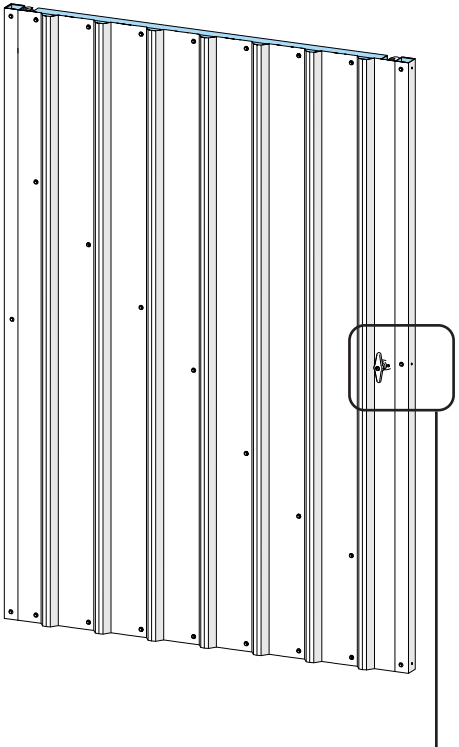
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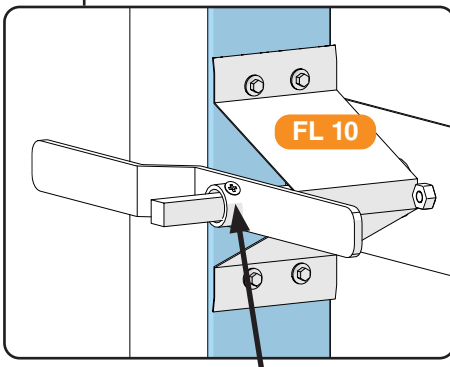
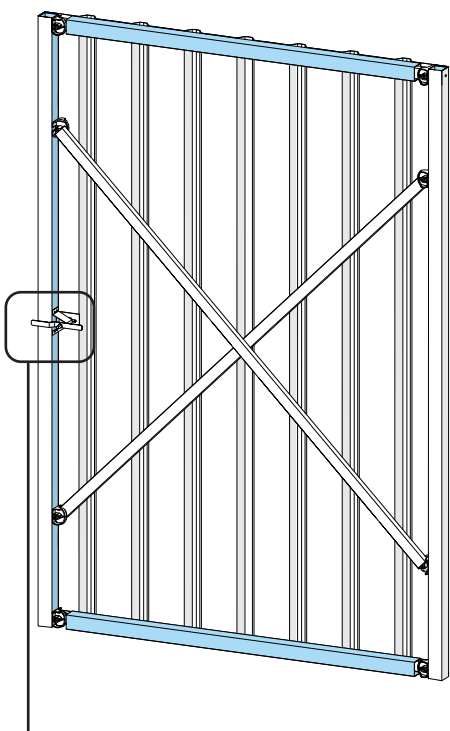
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**Step 5**  
Fix handle through cladding  
to plate



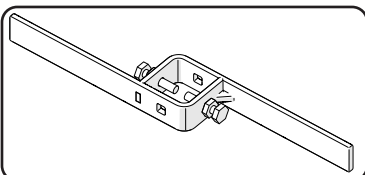
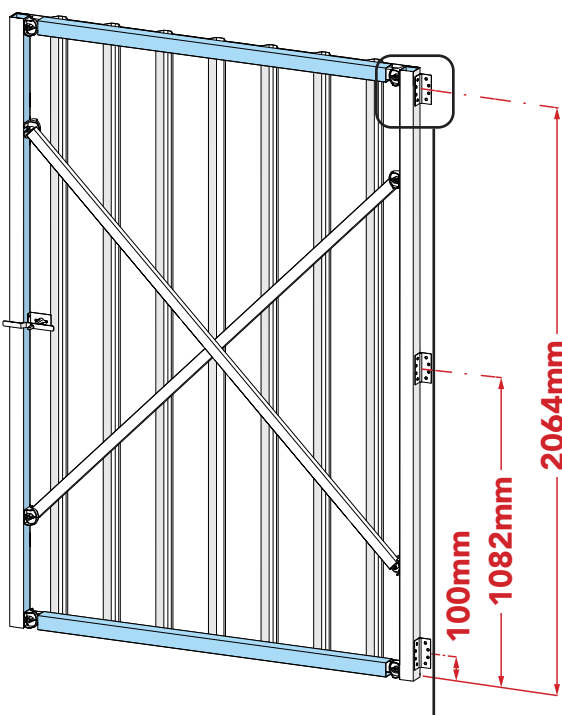
Fix as per manufactures instructions

**Step 6**  
Loosely attach door latch & fit  
**FL 10** in place.

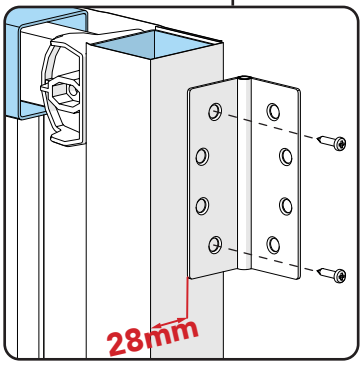


Tighten screw after door is fitted to frame. Refer to page 39. Fix **FL 10** in place with 2 10gx16mm tek screws top & bottom.

**Step 7**  
Attach hinges to door post



Recommend using a heavy duty inner lock, such as the one pictured above.



Fix hinges in place with 2 x wafer head screws

Approximate time  
required: 0.75 Hours



# Cladding

## 2.45m Shed Extension - Right Side

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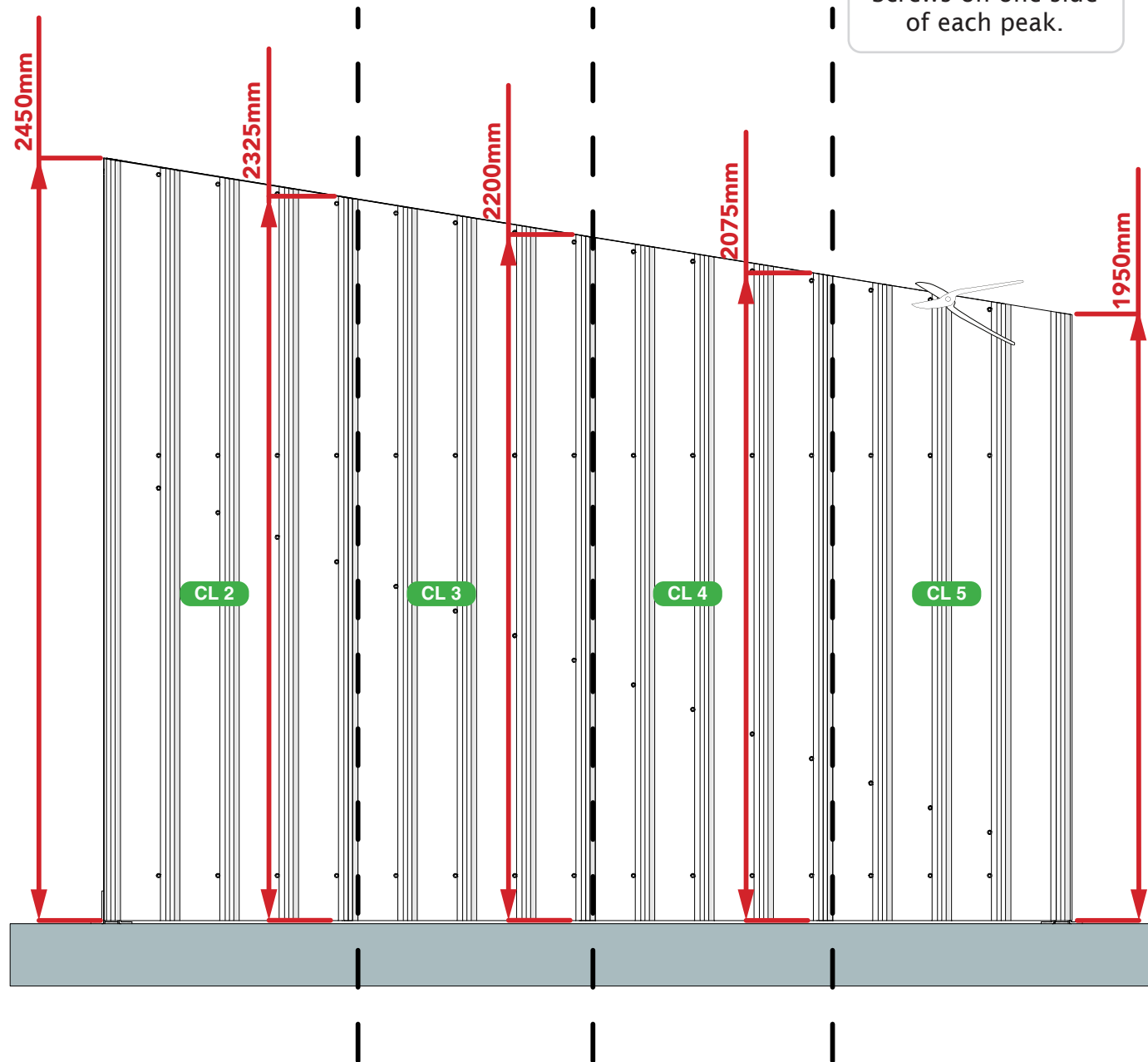
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### Left & Right Walls

Note: CLD2 - CLD5 need to be trimmed to suit slope of roof

Approximate time  
required: 2 Hours

# Cladding

## 2.45m Shed Extension - Right Side

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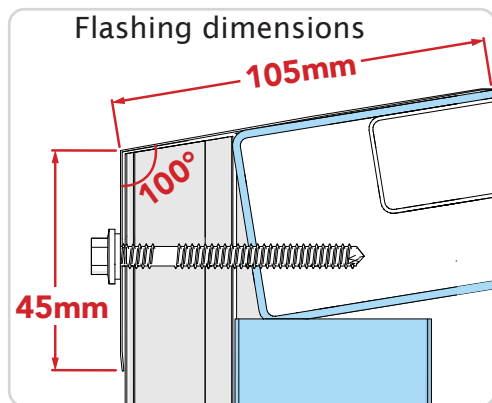
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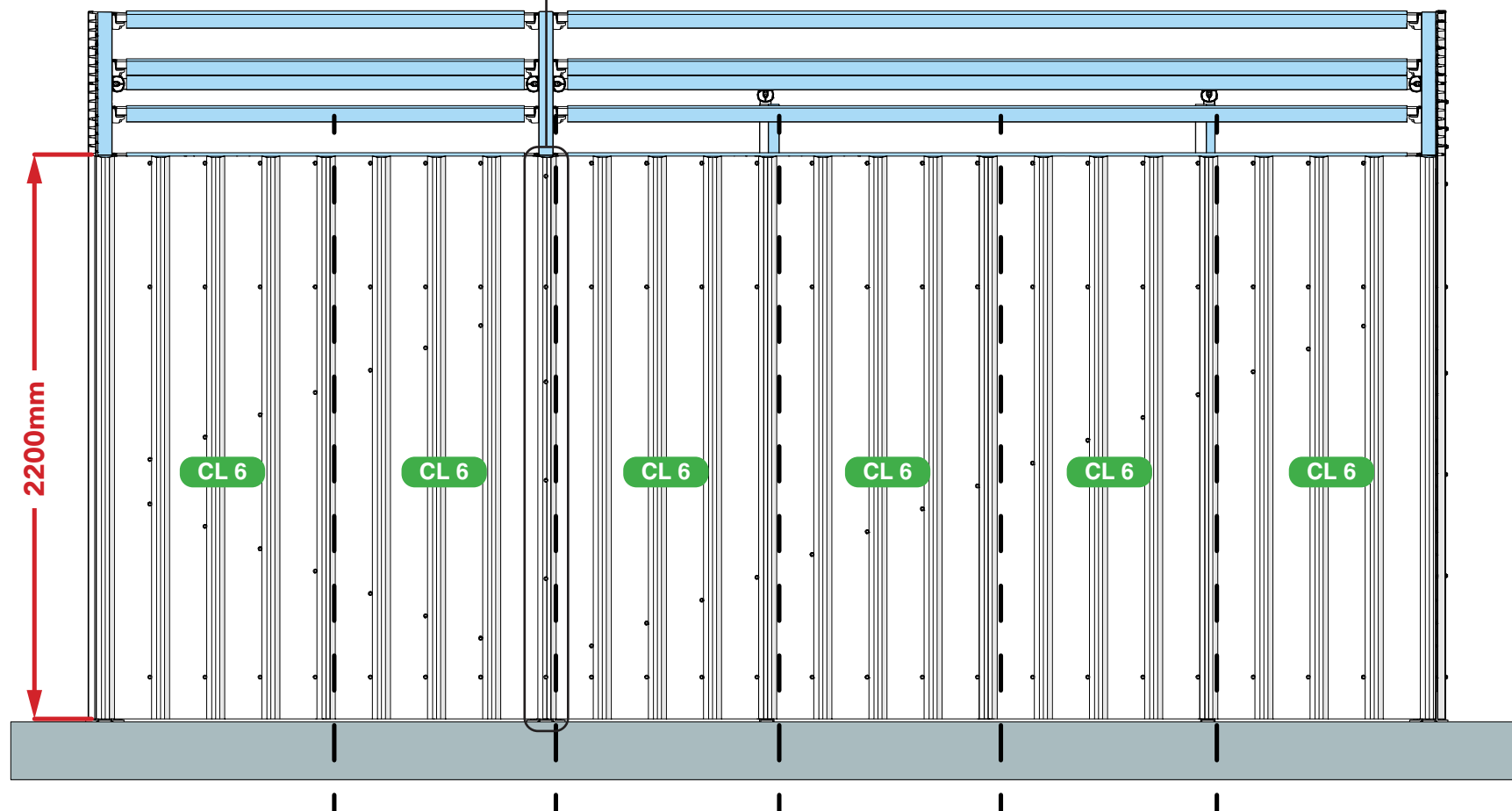
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Note: 6 x 12gx45mm tek screws  
used to fix cladding to central  
brace through peaks of cladding  
where they overlap.

10gx16mm Tek screws used to  
fix cladding to SHS frame.  
Screws on one side  
of each peak.



Note: Gutter attachments and  
Gutter can be added at this point  
if desired as an additional option.

Approximate time  
required: 1 Hours

Back

# Cladding

## 2.45m Shed Extension - Right Side

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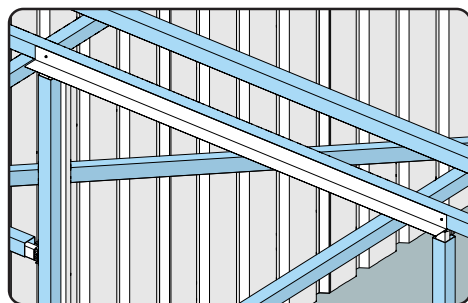
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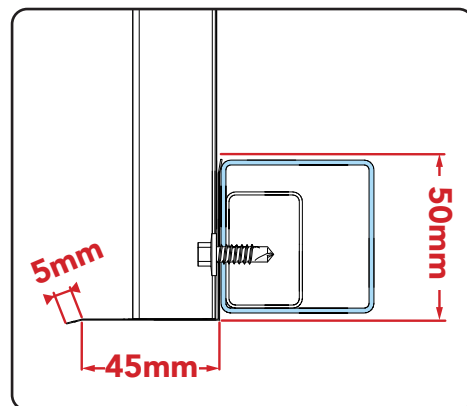
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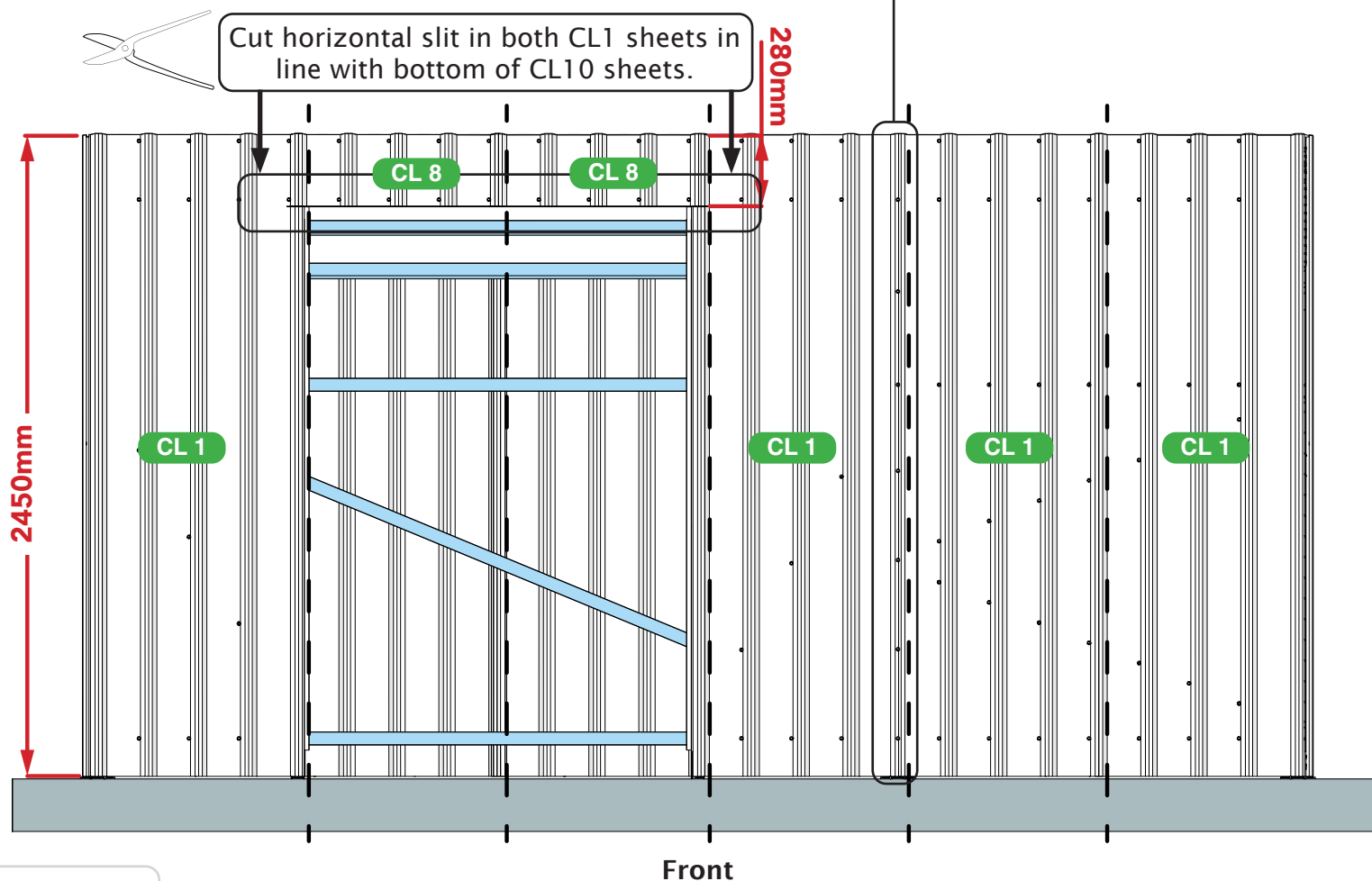
Before installing  
install **FL 8** with 1 x  
flat top screw each end



Flashing dimensions

10gx16mm Tek screws used  
to fix cladding to SHS frame.  
Screws on one side  
of each peak.

Note: 6 x 12gx45mm tek screws  
used to fix cladding to central  
brace where peaks of cladding  
overlap.



Approximate time  
required: 1 Hour

# Cladding

## 2.45m Shed Extension - Right Side

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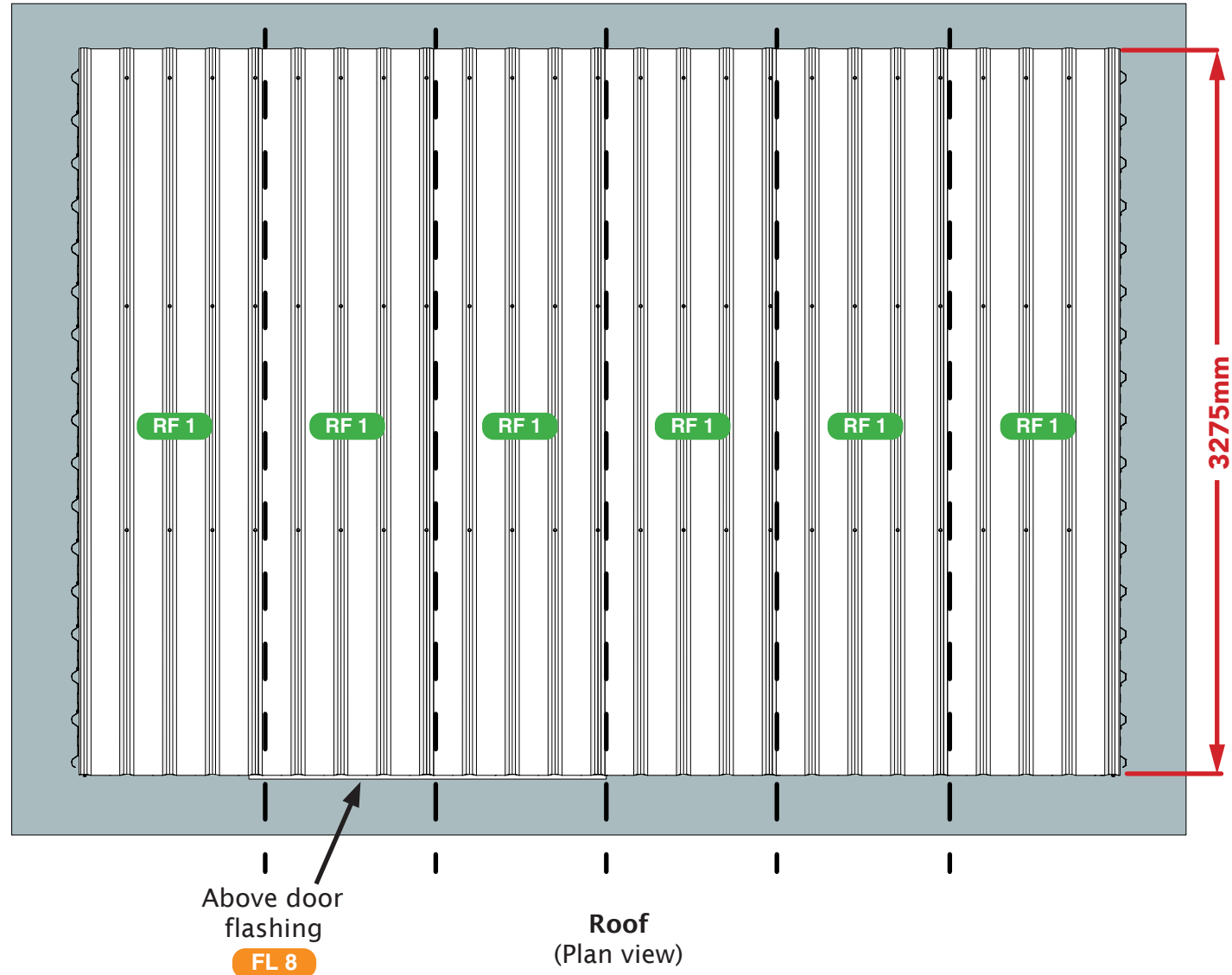
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12gx45mm tek screws  
used to fix cladding  
to SHS frame. Screw  
through the peaks.



Approximate time  
required: 1 Hour

# Cladding

## 2.45m Shed Extension - Right Side

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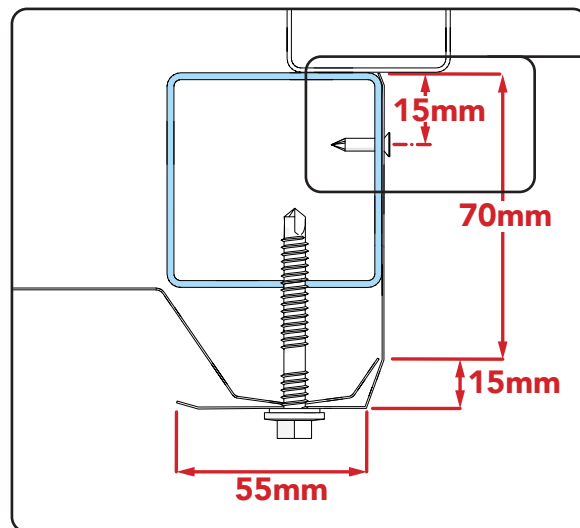
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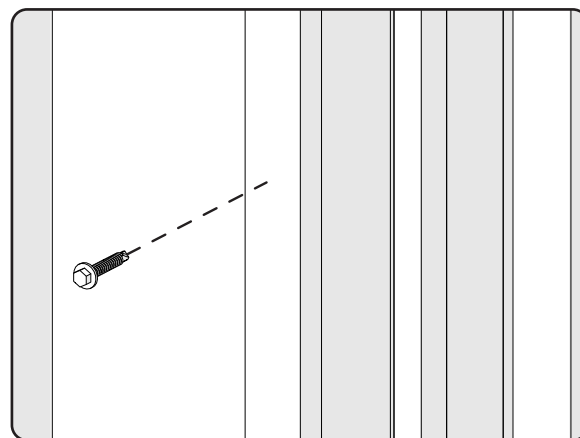
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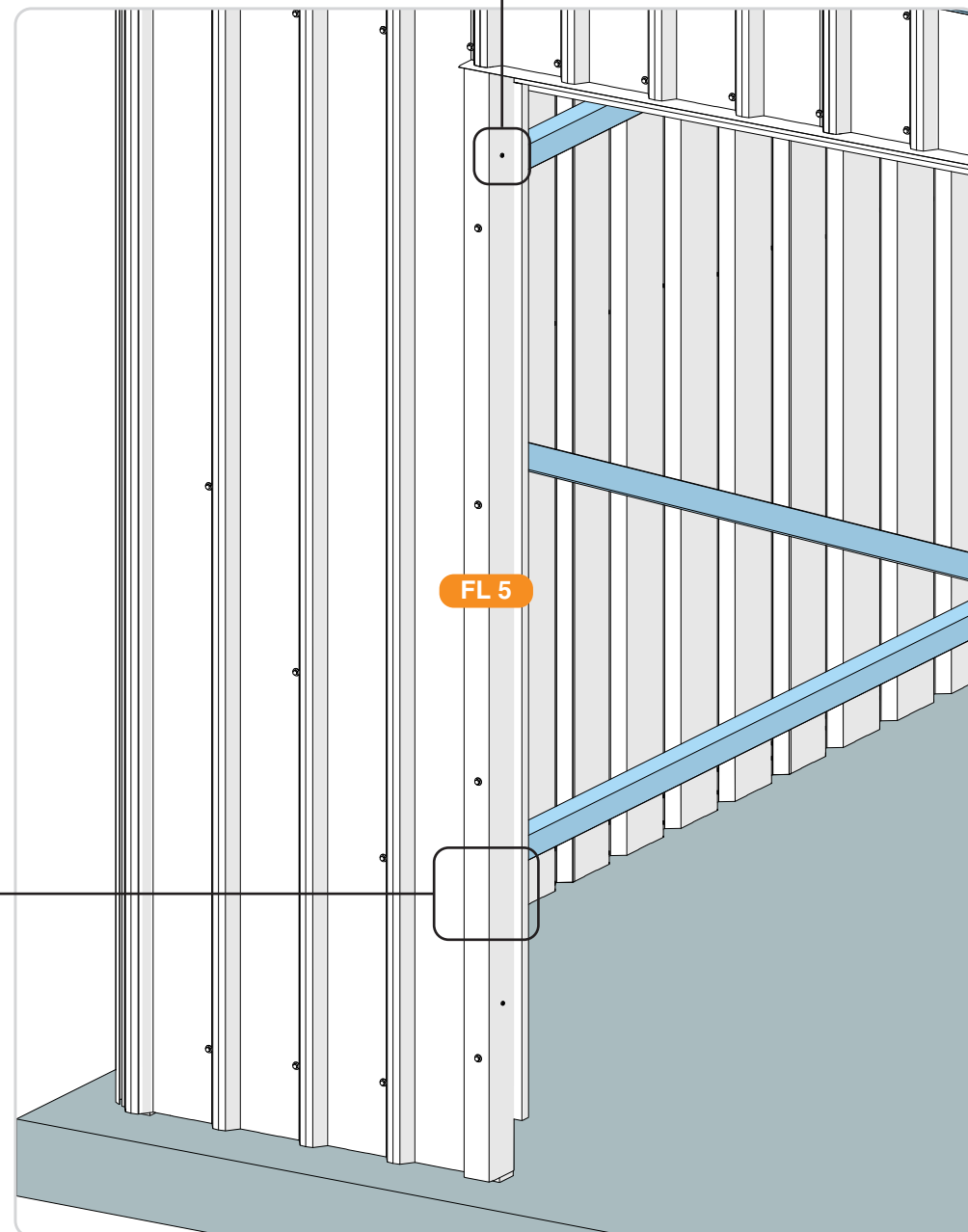


Flashing dimensions

Fix flat top screws into side of flashing  
first. 300mm from both ends to miss  
the hinges.



12gx45mm tek screws used to  
fix flashing & cladding to SHS frame.  
**Fix only after Door & Hinges have  
been fixed.** Flashing installed both  
sides of the door frame.



# Door Install

## 2.45m Shed Extension - Right Side

### User Manual

Read in conjunction with  
Kwiktech Build Guide and  
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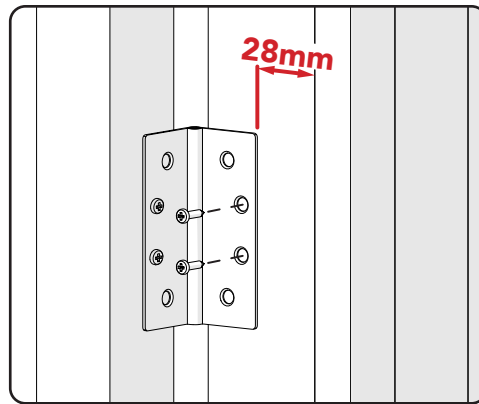
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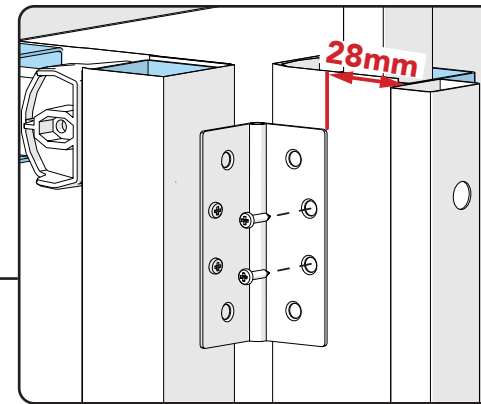
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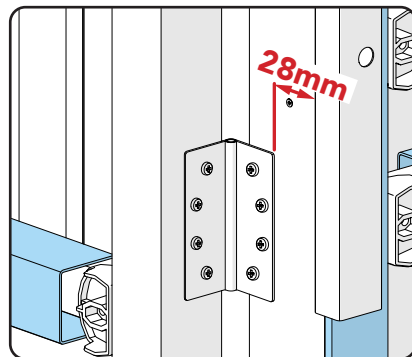


Fix to left door frame post via 2  
wafer head screws.



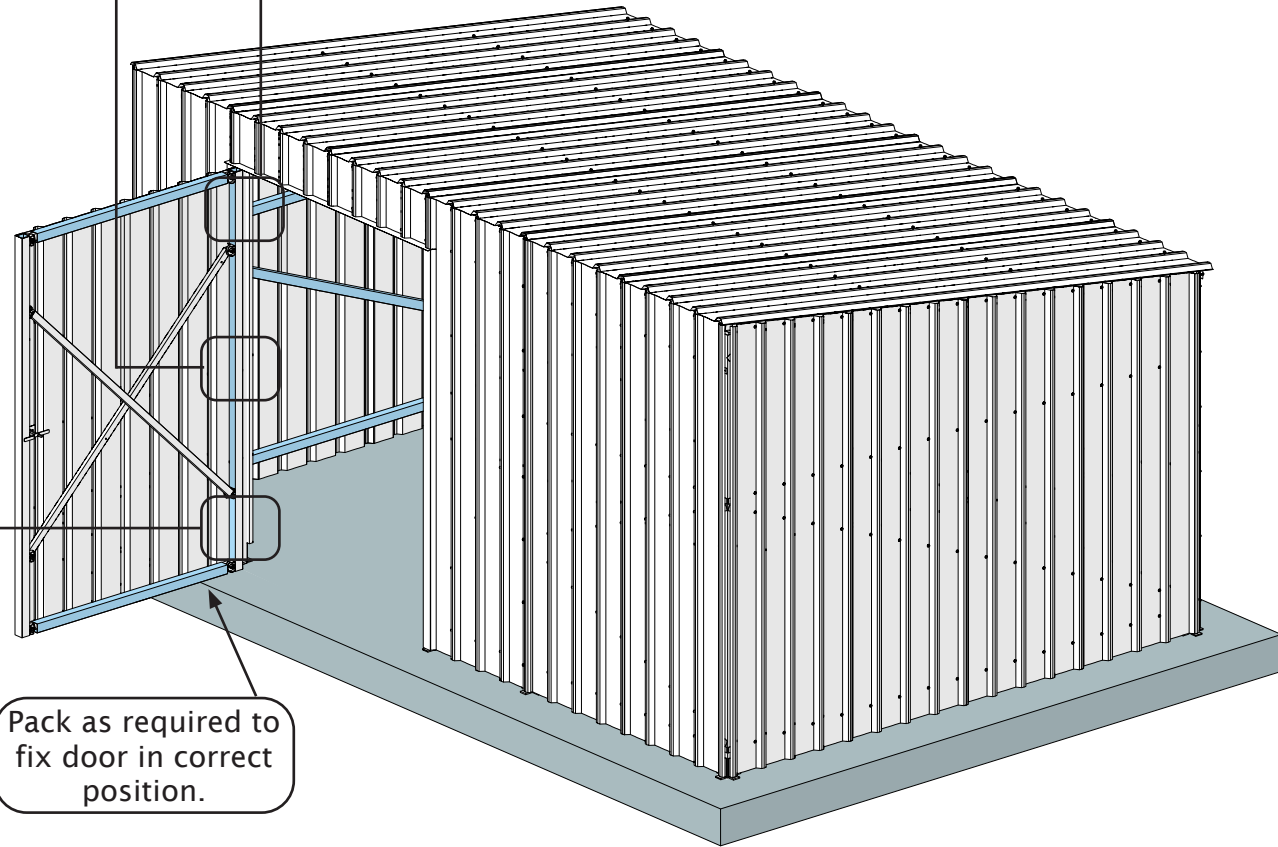
Mark and predrill 2 x  
3.5mm  $\varnothing$  holes for top  
hinge & fix to left door  
frame post via 2  
wafer head screws.

Predrill additional 2 holes  
once door functionality has  
been proven.



Check door for functionality  
(fully opens & closes). Fix all  
remaining holes with wafer  
head screws.

Pack as required to  
fix door in correct  
position.



Approximate time  
required: 0.5 Hours

# Flashings

## 2.45m Shed Extension - Right Side

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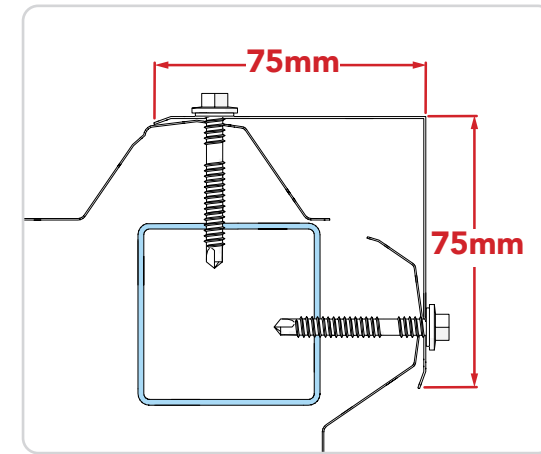
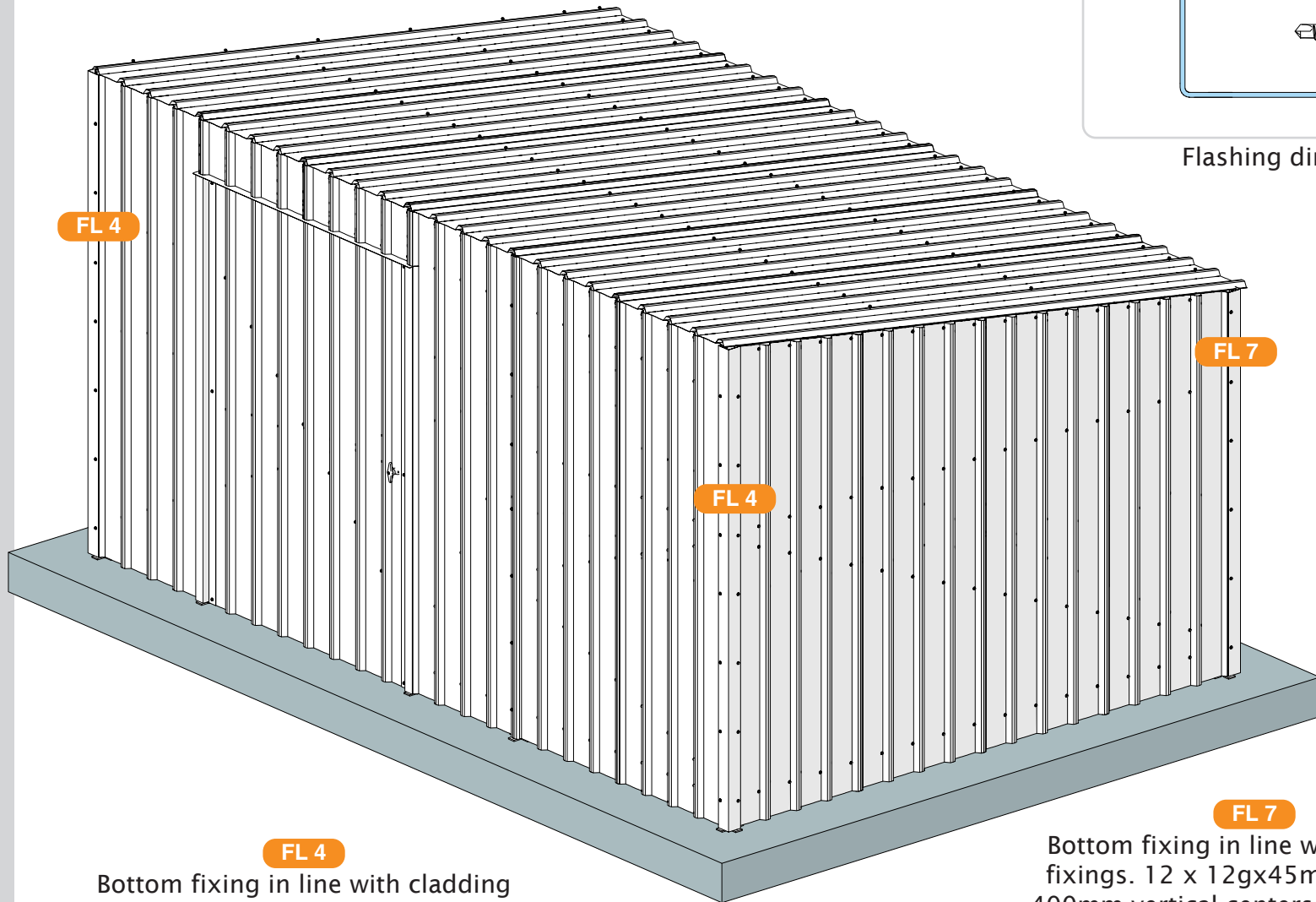
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### Step 1 Install front & back corner flashings



Flashing dimensions

**FL 4**  
Bottom fixing in line with cladding  
fixings. 14 x 12gx45mm screws @  
400mm vertical centers to secure the  
flashing to the cladding & SHS frame.

**FL 7**  
Bottom fixing in line with cladding  
fixings. 12 x 12gx45mm screws @  
400mm vertical centers to secure the  
flashing to the cladding & SHS frame.

Back left **FL 7** hidden due to view.  
Install in the same way.



# Flashings

## 2.45m Shed Extension - Right Side

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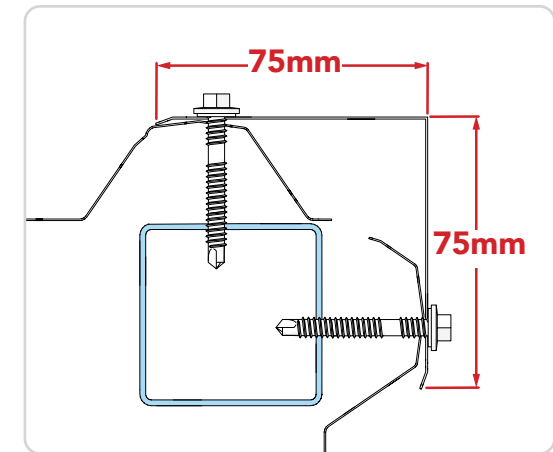
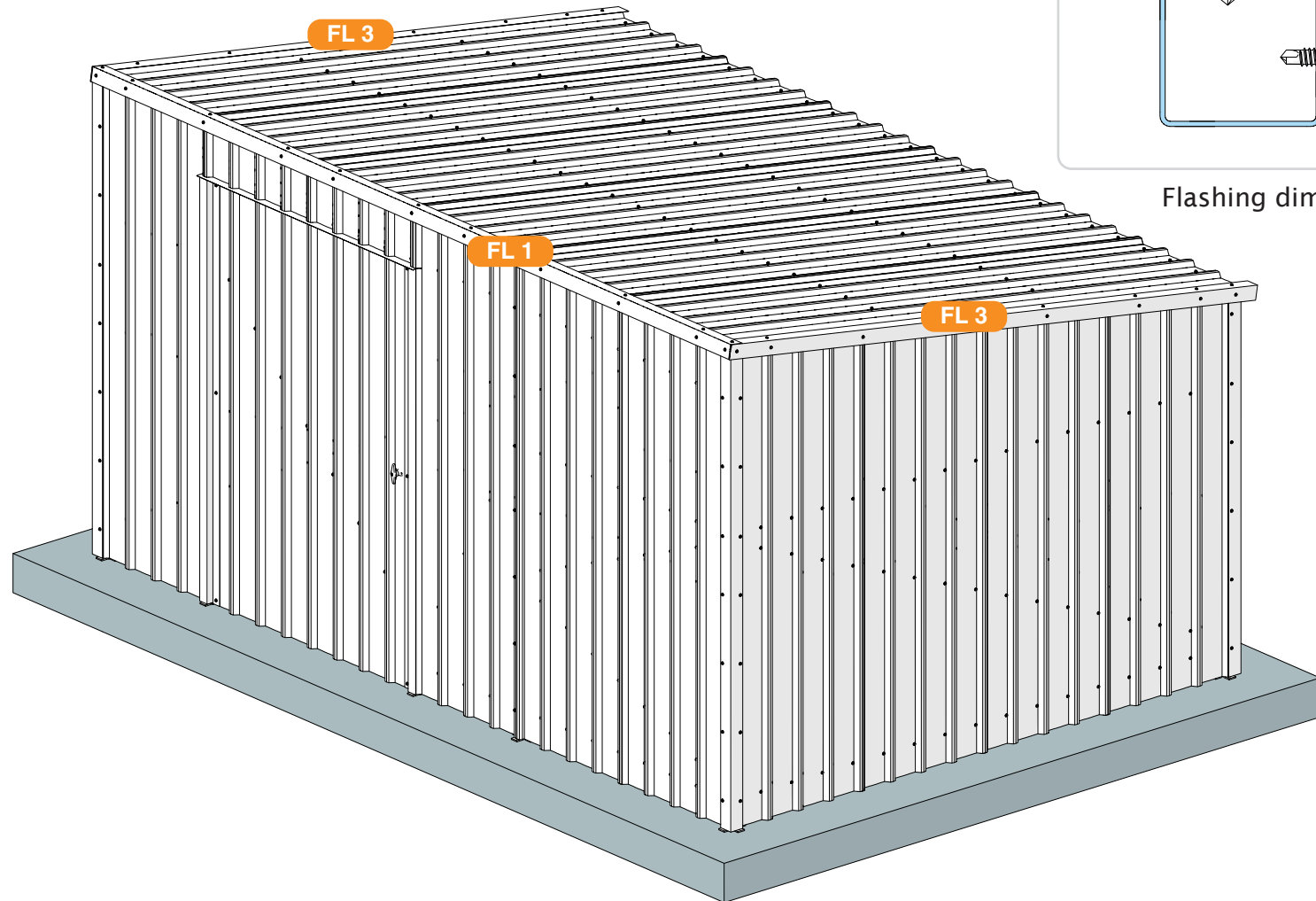
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## Step 2 Install top side flashings & then peak flashing



Flashing dimensions

**FL 1** **FL 3**  
12 x 12gx45mm screws every third  
peak to secure the flashing to the  
cladding & SHS frame. Secure on the  
sides & roof.

### 2.45m Shed Extension - Right Side

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# Shed Frame Blueprint Door

2.45m Shed  
Extension - Right Side

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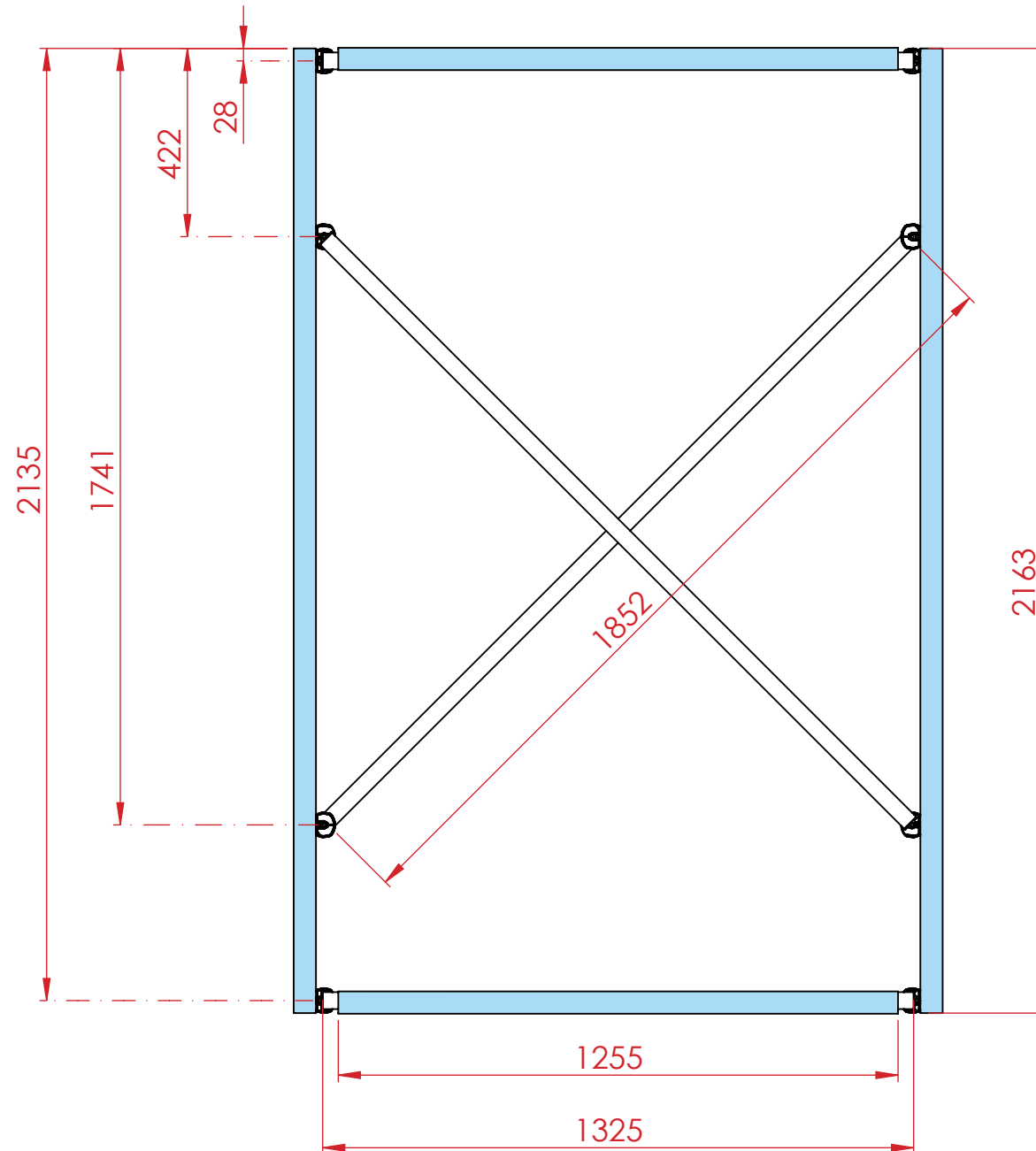
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## Shed Frame Blueprint Sides

**2.45m Shed  
Extension - Right Side**

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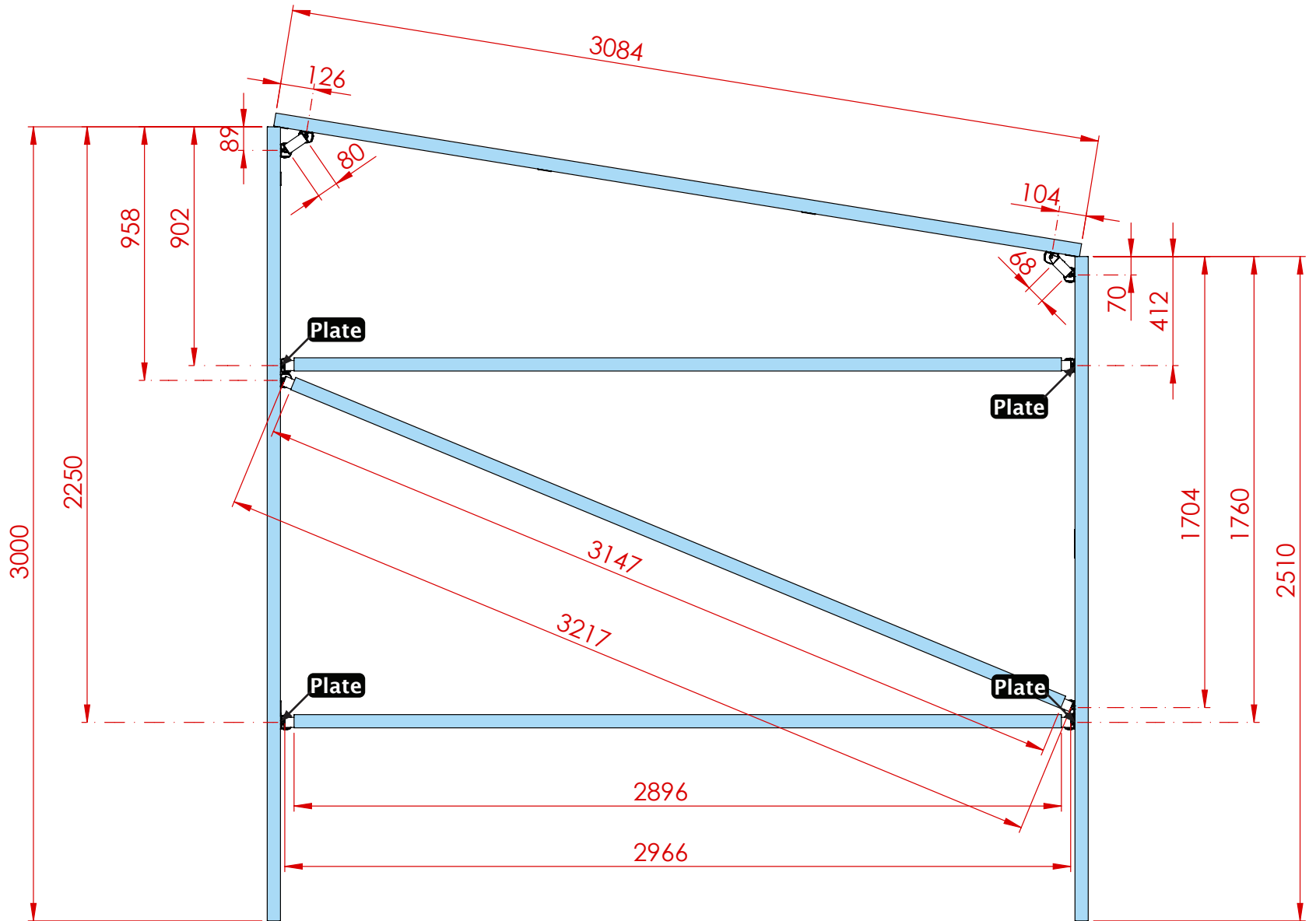
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# Shed Frame Blueprint Back

## 2.45m Shed Extension - Right Side

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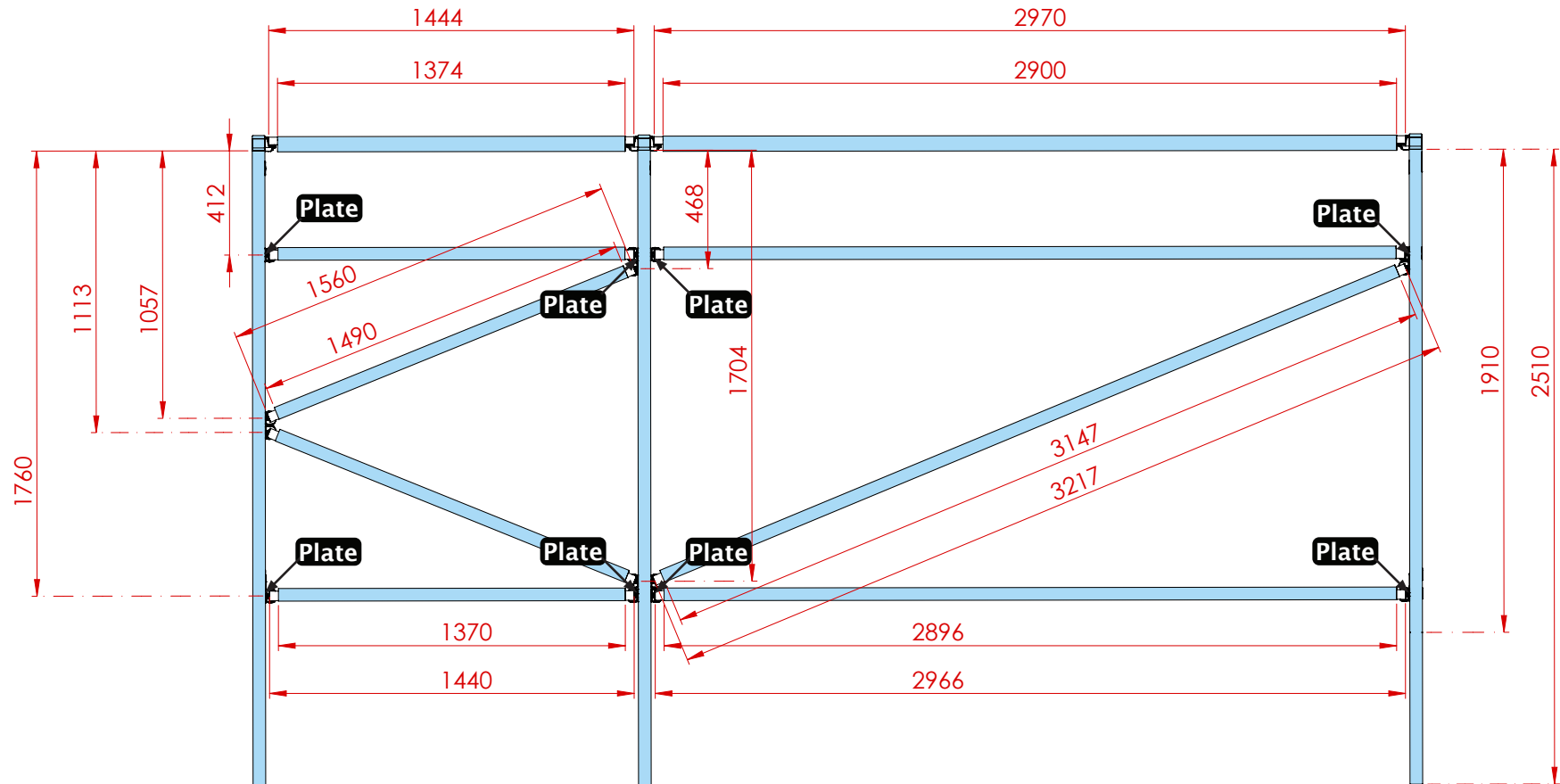
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# Shed Frame Blueprint Roof

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