ASSEMBLY MANUAL

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www.screb.com

You have purchased a SCREB product and we would like to thank you for it.

As an introduction, we invite you to take a look at our assembly videos on our website :
www.screb.com

Or by scanning this QR-code :

* In case there is a difference between our assembly videos and this manual, the instructions in this manual prevail.

Please read these instructions carefully before starting to build.

The A3 printed plans that have been sent to you are personalised plans specific to your project. They prevail over any other guide (including these instructions).

Our products are very easy to build.
However, if you encounter the slightest difficulty, please don't hesitate to call our technical team on +33 3 24 30 70 00.

Feel free to contact us!

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Illustrations : Jérôme Walck & Nikki Moreaux

Translation : Félix Dont

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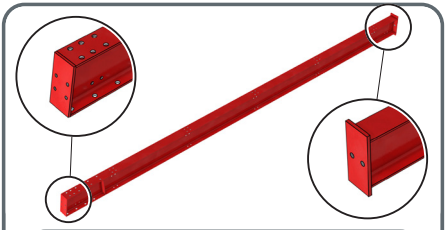
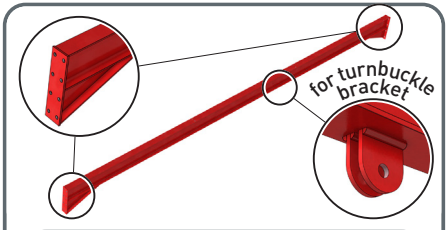
GLOSSARY

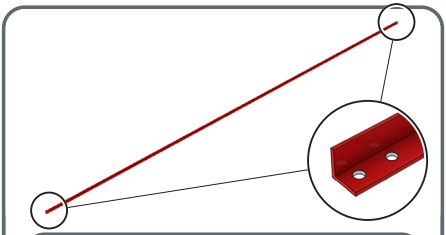
GLOSSARY



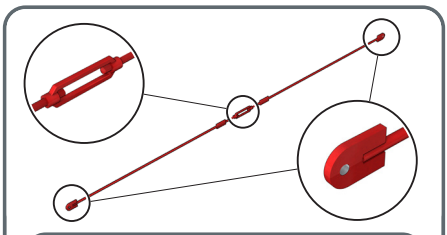
IPE COLUMN



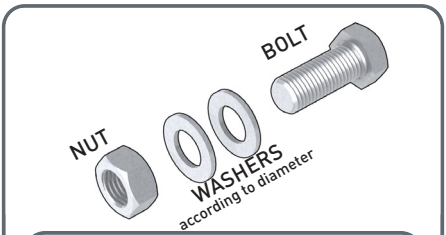
IPE RAFTER
2 bolted rafters = 1 *gable*



RAKE ANGLE 45 X 45 mm
for CROSS BRACES

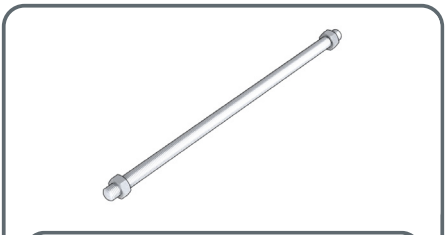


TURNBUCKLE BRACKET

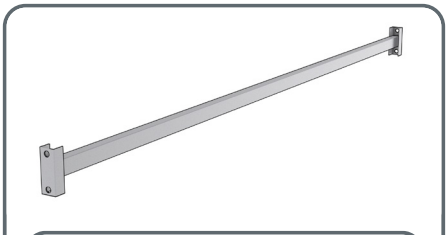


BOLTS
10x30 - 12x30 - 12x50 - 16x50 - 18x60

ANCHORING BRACKET
400 mm with NUT



ROD with NUT
540 or 1080 mm

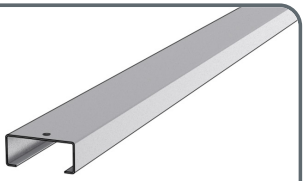


C STRUT BRACE
1380 or 2000 mm

GLOSSARY

C160 C SHAPED PURLIN
compatible with reinforcing sleeve
4994 or 5994 mm

PURLIN CLEAT
for C160 C SHAPED PURLINS



OPTION

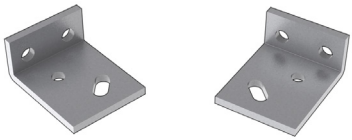
C140 RAIL
for CLADDING

OPTION

C140 CORNER BRACKET
for SIDE WALL and END WALL post

OPTION

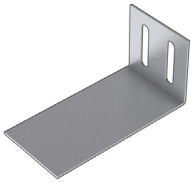
C140 CORNER BRACKET
for END WALL COLUMN



CROSS BRACKET
delivered in pairs

OPTION

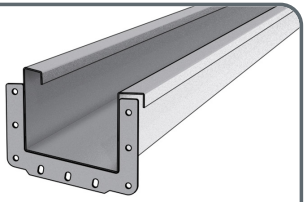
BRACKET for END WALL
wall post



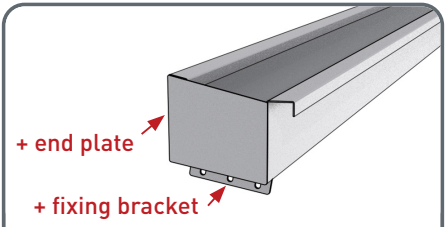
OPTION

COLUMN CLEAT
for ENDWALL wall, see P. 64

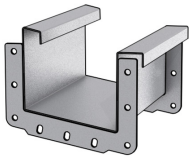
GLOSSARY



BOLTABLE GUTTER CHC190
5000 or 6000 mm

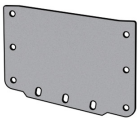


BOLTABLE GUTTER CHC190
«special start» 5100 or 6100 mm



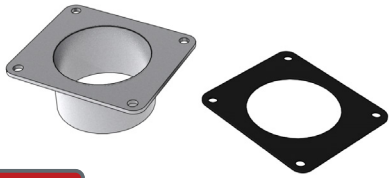
OPTION

MINI-GUTTER CHC190
200 or 400 mm



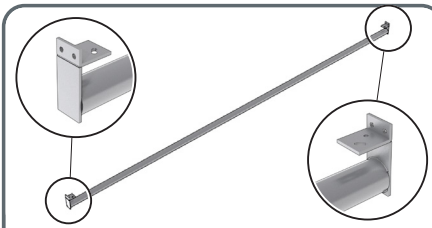
END PLATE
for BOLTABLE GUTTER CHC190

GUTTER JOINT
for BOLTABLE GUTTER CHC190



OPTION

DROP OUTLET with GUTTER JOINT

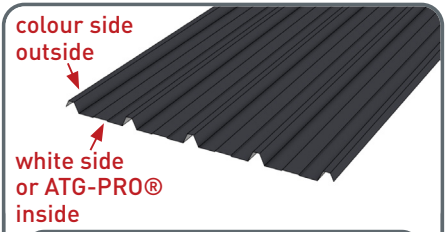


STEEL POLE with
CROSS BRACKET
mainly for dual slopped > 20 m wide

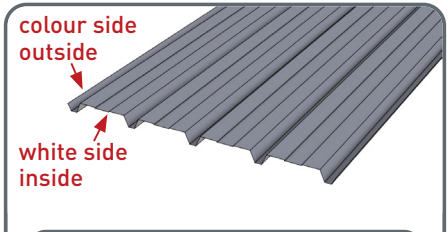
OPTION

REINFORCING SLEEVE
for C160 PURLIN

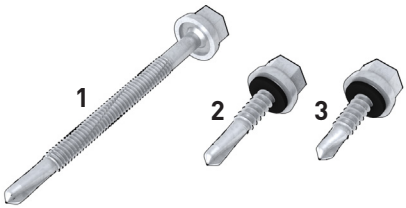
GLOSSARY



ROOF SHEET
63/100 or 75/100 thick

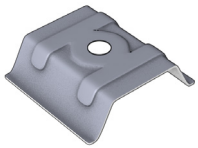


INVERTED WALL SHEET
63/100 thick

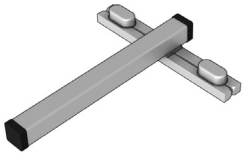


1. ZACRO SCERW 6.3x60 for ROOF
2. ZACRO SCREW 6.3x25 for WALL
3. ZACRO SCREW 6.3x22 RIDGE CAP & ACCESSORIES

RUBBER WASHER

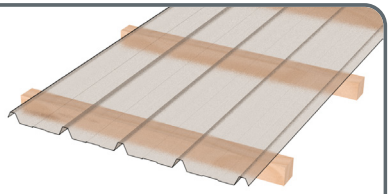


JUMPER for ROOF SHEET



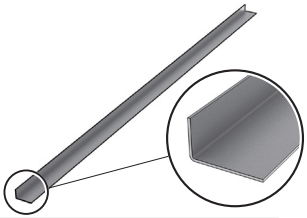
OPTION

METAL PLIER
for ATG-PRO® METAL SHEET



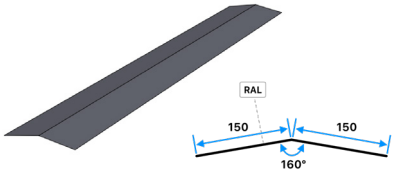
OPTION

TRANSLUCENT SHEET



OPTION

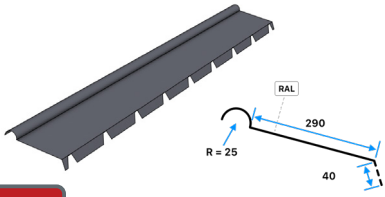
RAFTER CLEAT
to FIX END WALL, see P. 8



STANDARD

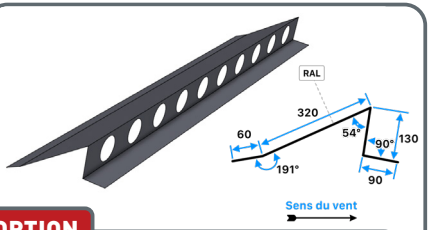
FLAT RIDGE CAP
*on dual slopped and single slop+canopy

GLOSSARY



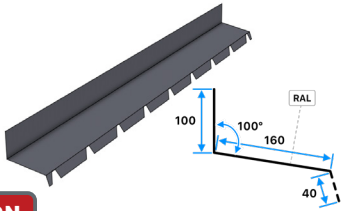
OPTION

HALF RIDGE CAP



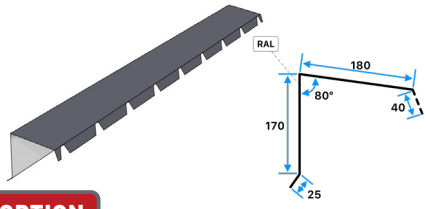
OPTION

VENTILATED RIDGE CAP



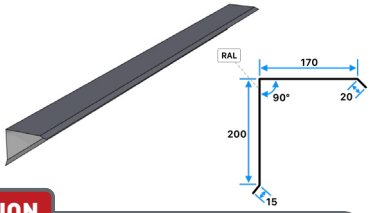
OPTION

FLASHING RIDGE CAP



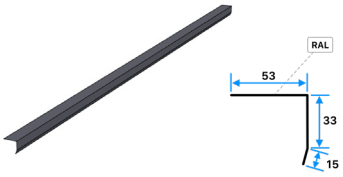
OPTION

PROJECTING RIDGE STRIP



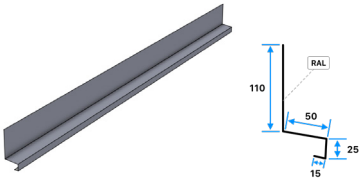
OPTION

GABLE EDGES



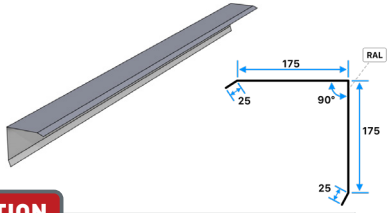
OPTION

GUTTER TRIM



OPTION

BASE TRIM



OPTION

CORNER TRIM

GLOSSARY - INSULATED BUILDING

The items below only concern insulated buildings.

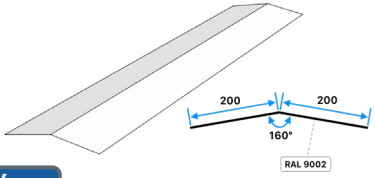
In the case of an insulated building, it will be C190 purlins (instead of C160 purlins).

C190 C SHAPED PURLIN
compatible with reinforcing sleeve
4994 or 5994 mm

C190 PURLIN CLEAT
for C190 PURLIN

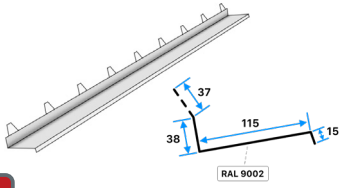
OPTION

REINFORCING SLEEVE
for C190 PURLIN



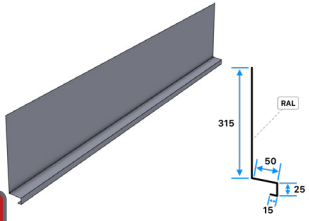
DE SÉRIE

UNDER RIDGE CAP
for insulated roof



OPTION

CLOSURE
for insulated roof



OPTION

ELONGATED BASE TRIM
to fix on insulated wall rail

SCREB

PART 1

RECEIVING AND STORAGE

RECEIVING

When your order is delivered, you will be given a packing list listing all the parts that make up your building.

Check the quantity and quality of the parts within 8 days of delivery.

You can turn to the glossary on pages 5 to 10, to help you identify the parts that make up your building.

STORAGE

If you don't want to assemble your building straight away please store the parts under cover.

We would particularly like to draw your attention to the storage of the panels and the accessories.

The panels must be stored :

- Under ventilated cover to ensure good ventilation of the panels.
- The packs of panels should be stored on a sloping surface, in case of rain to ensure the panels stay dry.

Inspect regularly if they have been stored for a long time.

IN ALL CASES, LIMIT THE STORAGE TIME OF PARTS ON SITE AS MUCH AS POSSIBLE.

SCREB

PART 2

SAFETY PRINCIPLES AND NECESSARY EQUIPMENT

SAFETY PRINCIPLES

Make sure to have appropriate construction site attire :

- Gloves
- Steel capped boots
- Hard hat
- Straps
- etc.

Prevent access to the worksite.
Secure the assembly area. Always provide an emergency exit.

NEVER TRY TO CATCH AN ITEAM AS IT IS FALLING.

NECESSARY EQUIPMENT

You will need the following equipment:

- 1 Fork lift
- 1 Cherry picker / Aerial work platform
- 1 Sledgehammer
- 1 Disc grinder
- 1 Level
- 1 Decameter
- 1 Scribing point
- 1 Screwgun, power drill, hammer drill
- Flat and ratchet spanners: Ø 8, 11, 12, 13, 17, 19, 24, 28 et 36

SCREB

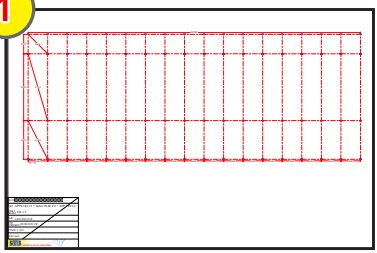
PART 3

EMBEDDING

EMBEDDING - CAUTION

We would particularly like to draw your attention to various points relating to your building's concrete blocks :

1



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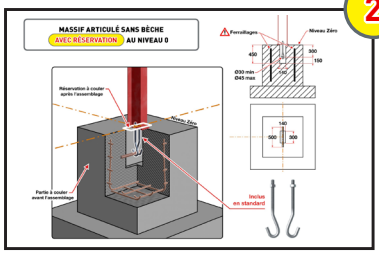


Before making your concrete blocks

You must have received these documents below :

1 Embedding plan

2 Concrete blocks plan

The size of the blocks will be determined by the building contractor or mason, who will be in charge of making your concrete blocks according to the ground.

Your concrete blocks must all be the same level.

If the difference in level is greater than ±5 mm, you will need to reposition under the blocks to allow the bracing crosses to be fixed (see page 23).

Wait 21 days for the concrete to dry before assembling your buidling.

EMBEDDING - CAUTION

We would particularly like to draw your attention to various points relating to your building's concrete blocks :

Depending on your choice and embedding location, your SCREB building can be :

Articulated: The posts have no excess length and do not need to be embedded in concrete.

Embedded : The columns have an added length (+300 to +500 mm), for embedding in your concrete blocks.

In either case, the end wall posts and the door frames (except reversible service door) all have an extra length of 300 mm to be embedded in the concrete.

Whatever the type of blocks you use, they must be reinforced with a sufficent amount of concrete steel bars.

We do not supply the reinforcing steel bars.

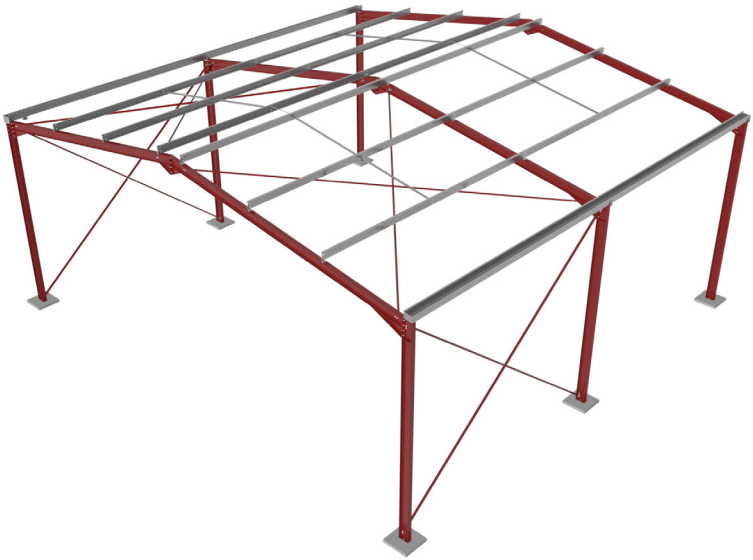
In the case of concrete blocks with anchoring brackets, we do not supply the reinforcing steel bar for the anchoring brackets: buy concrete reinforcing bars 30 to 45 mm in diameter, 500 mm long, to be placed lenghthways along the building.

In the case of solid blocks with a pre-sealing kit, a reinforcing bar is supplied for each block.

In the case of blocks sealed with chemical capsules, there is no need for a concrete reinforcing bar.

For more information, please refer to our Assembly Blocks Guide, available on our website.

SCREB

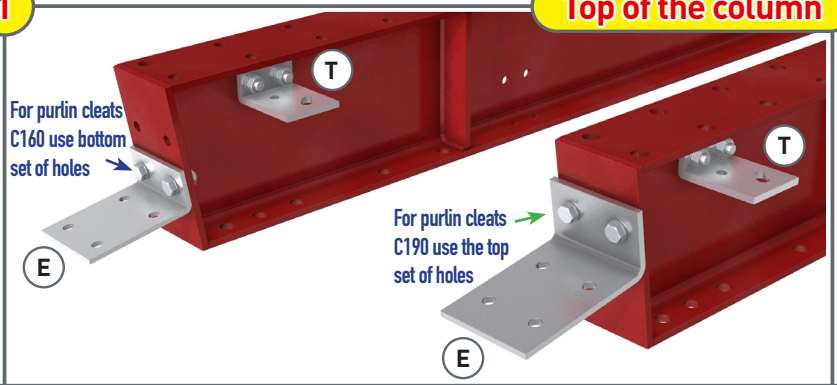


PART 4

STEEL FRAMEWORK

PREPARING THE COLUMNS

1 Top of the column



Bolt the **cross brackets** using **12 x 30 bolts**. (T)

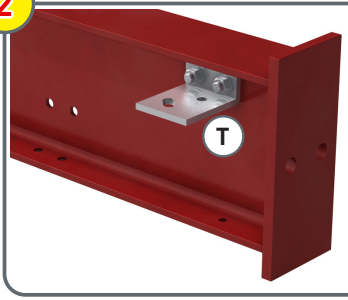
If your building is dual slopped and more than 20 m wide, do not bolt cross brackets to the top of the column: you will fix steel posts at the top of the pole.

And if you bought a building without gutters :

Bolt the **purlin cleats** with **12 x 30 bolts**. (E)

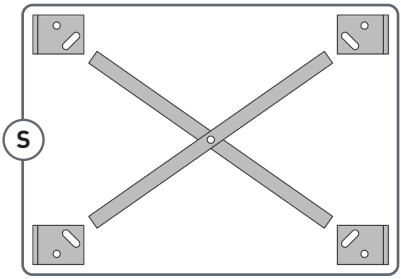
If your building has a gutter to bolt on, no need to bolt purlin cleats (the gutters replaces the purlin)

2 Bottom of the column



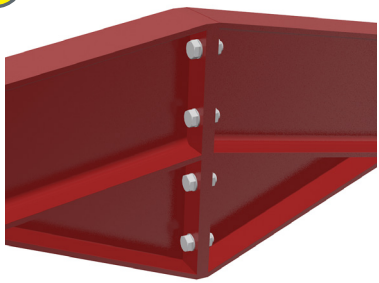
Bolt the **cross brackets** with **12 x 30 bolts** . (T)

The cross brackets are delivered in symmetrical pairs : use the diagram to position them correctly. (S)



PREPARING THE RAFTERS

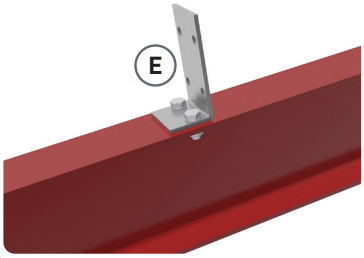
1



In the case of a dual sloped building, bolt the **rafters** 2 by 2 using **16 x 50 bolts**.

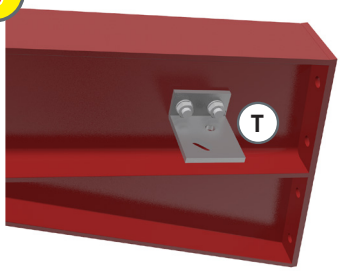
If some of your rafters have turnbuckle brackets (shown on the top right box page 5) assemble these rafters in pairs.

2



Bolt the **purlin cleats** (E) with **12 x 30 bolts**.

3



Bolt the **cross brackets** (T) with **12 x 30 bolts** according to the diagram (S) on the bottom of page 19.

If your building is dual slopped and more than 20 m wide, only bolt 3 cross brackets per rafter : you will fix steel poles at the center of the rafters (see page 32).

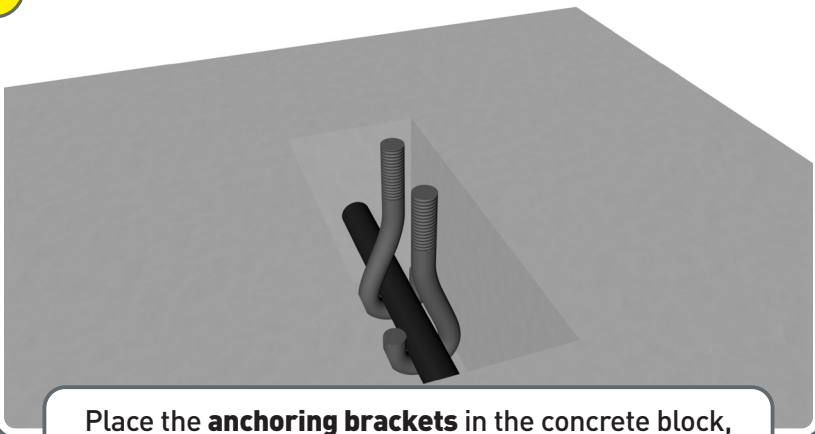
4

In the case of rafters overhanging the endwall, fix now the rafter cleats (instructions page 20).

Tip : organise the rafters next to the columns, so that you can lift them without having to move them across the building site.

STEEL FRAME ASSEMBLY - PART 1

1



Place the **anchoring brackets** in the concrete block, facing opposite directions, as shown in the image above.

2

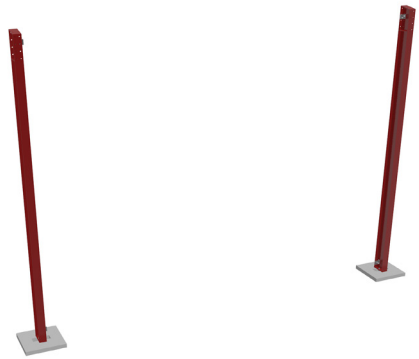
Fit the 1st column. Screwing the **nuts**, but not too tightly, holding the column up in place..

Also see bottom of page 38

WATCH OUT! THE COLUMN IS BALANCED!
FOLLOW THE SAFETY RULES.

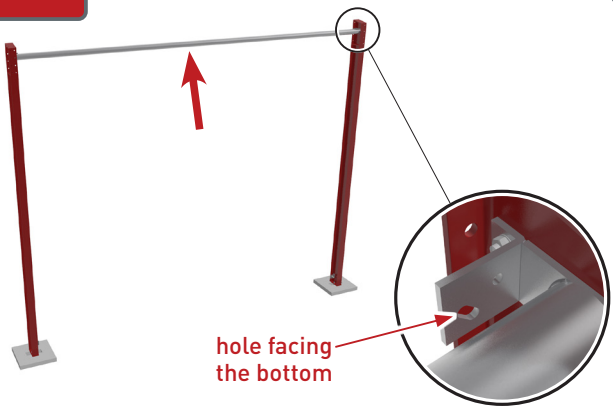
STEEL FRAME ASSEMBLY - PART 2

1



Place the 2nd column.

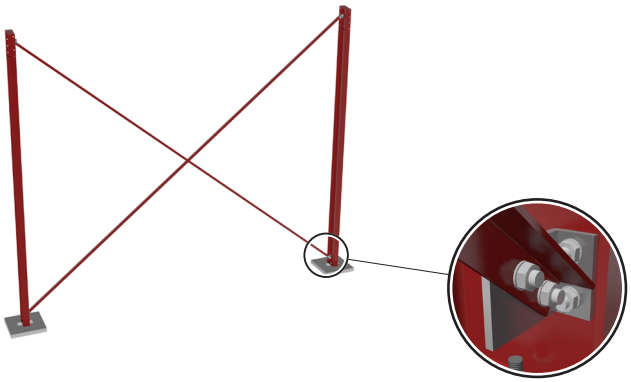
IF THERE IS A STEEL POLE



If your building is fitted with a **steel pole** (mainly in the case of a dual slope more than 20 m wide) fix a **steel pole** at the top of the column, according to the plans you have received, with **12 x 30 bolts.**

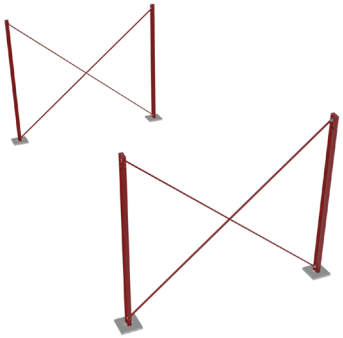
STEEL FRAME ASSEMBLY - PART 2

2



Secure the bracing cross with the **12 x 30 bolts**.

3



Put in place the 3rd and 4th columns opposite the first two columns.

Fix steel poles at the top of the columns if applicable.

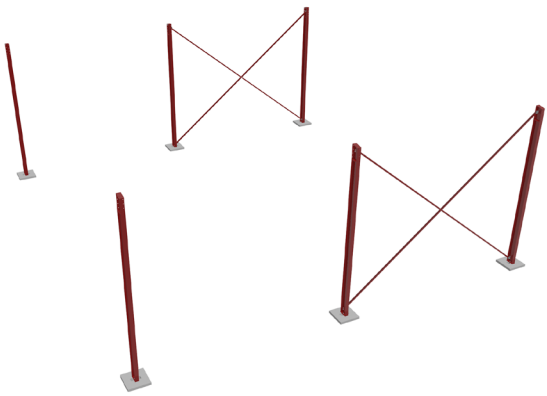
Put the bracing cross with the **12 x 30 bolts**.

CAUTION! NEVER REMOVE THE BRACING CROSSES, EVEN AFTER ASSEMBLY. (consult us if you need to remove them)

The bracing crosses must be aligned in the same sidewall bay, according to the plan received.

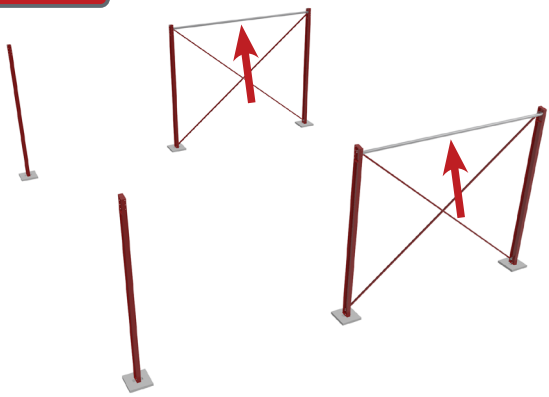
STEEL FRAME ASSEMBLY - PART 2

4



Fit any other columns and bracing crosses

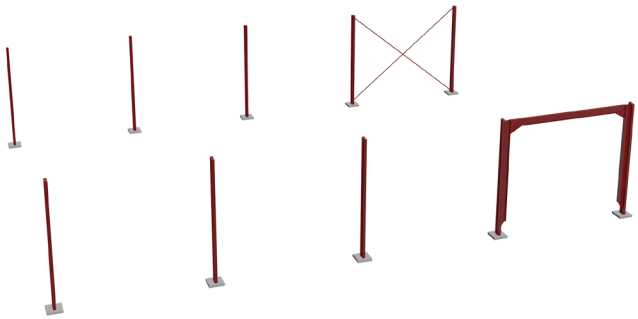
IF THERE IS A STEEL POLE



If your building is fitted with **steel poles**, make sure that these have been correctly fitted at the top of the column according to the plans you received.

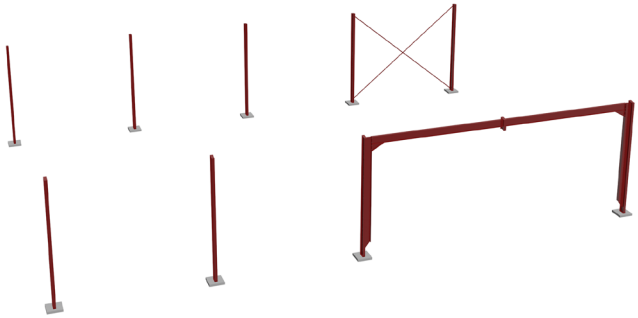
STEEL FRAME ASSEMBLY - BEAM OPTION

OPTION



If your building has a **stability beam**,
fit it according to the plans received and
bolt the beam using **16 x 50 bolts**.

OPTION



If your building has a **bay enlarging beam**,
fit it according to the plans received and
bolt the beam using **16 x 50 bolts**.

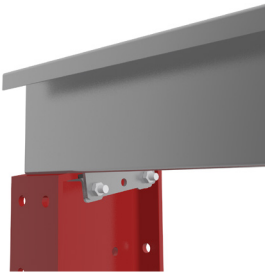
STEEL FRAME ASSEMBLY - PART 3

If your building / sidewall does not have gutter to bolt, please refer to section 4 page 30.

1

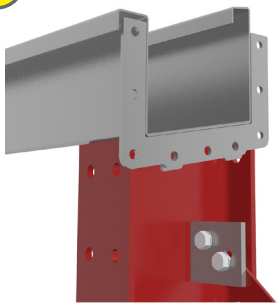
Place the **gutter which needs bolting** «special start» (5100 or 6100 mm) or the **mini-gutter**, according to plan received

2



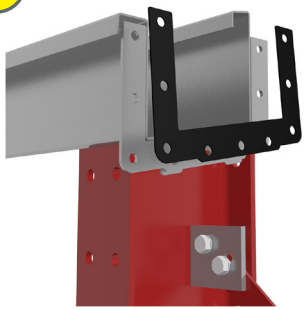
Fix the gutter on the column with the **10 x 30 bolts**.

3



Position the gutter on the second column, without fixing it.

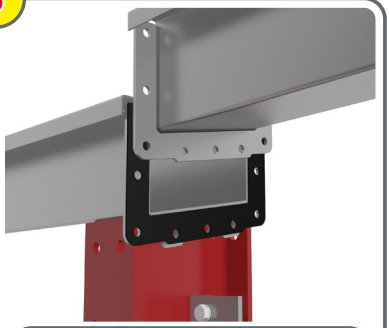
4



Position the **gutter joint** at the end of the column.

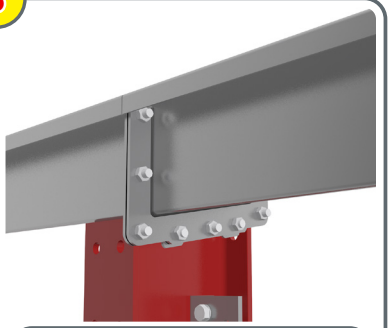
STEEL FRAME ASSEMBLY - PART 3

5



Position
the next **gutter**
(5000 or 6000 mm)
at the end of the last gutter.

6



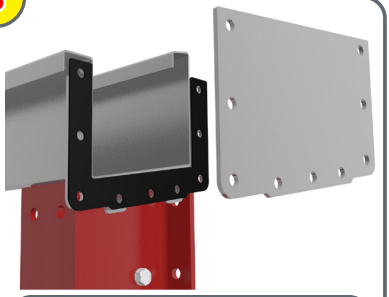
Fix the gutter with
10 x 30 bolts.

7

Repeat stages 4 5 and 6 for each rafter.

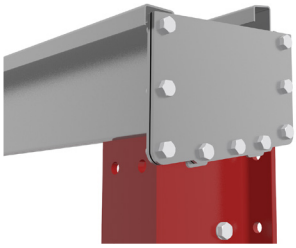
At each gutter junction, don't forget to put a gutter joint and to fix it all to the fixing brackets provided on the columns.

8



On the last gutter,
add the **gutter joint**
and the **end plate**.

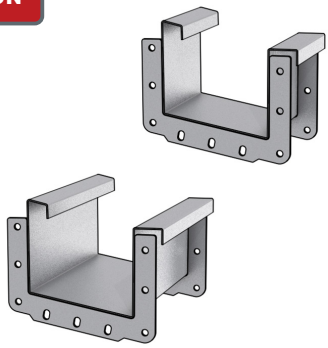
9

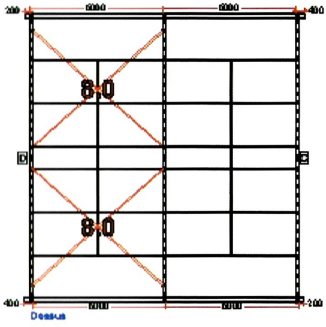


Secure it all with
10 x 30 bolts.

STEEL FRAME ASSEMBLY - PART 3

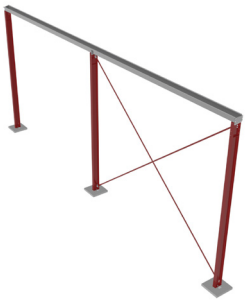
OPTION





If you have a **mini-gutter** (200 or 400 mm) position them according to the plan received.

10



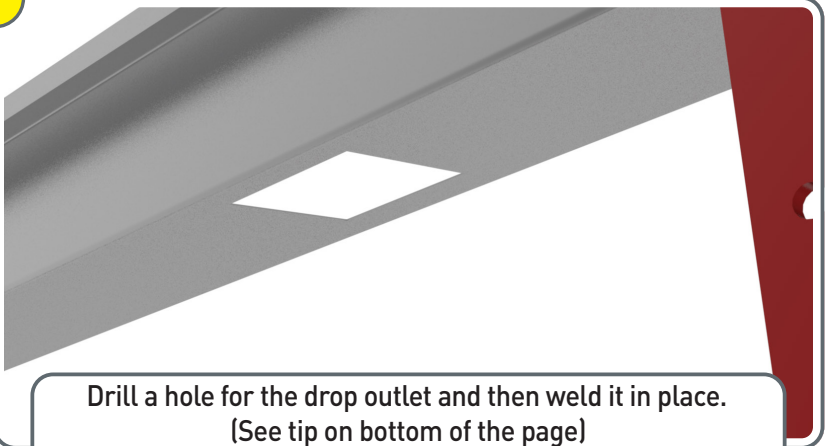
Your first sidewall is finshed !

11

Repeat steps 1 to 9 for the second sidewall.

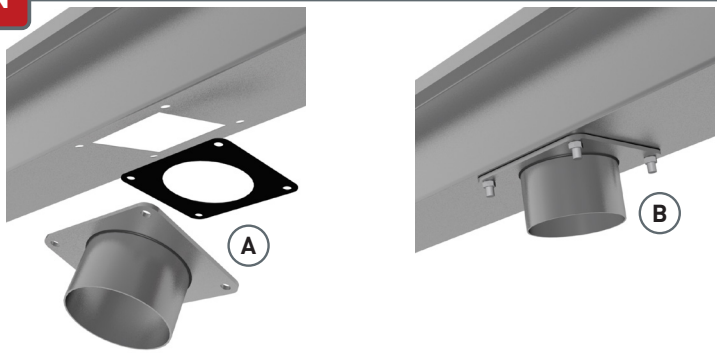
STEEL FRAME ASSEMBLY - PART 3

1



Drill a hole for the drop outlet and then weld it in place.
(See tip on bottom of the page)
As an option, as shown below,
you can also use **bolt-on drop outlet**.

OPTION



Position the **gutter joint** and the **bolt-on drop outlet** (A)

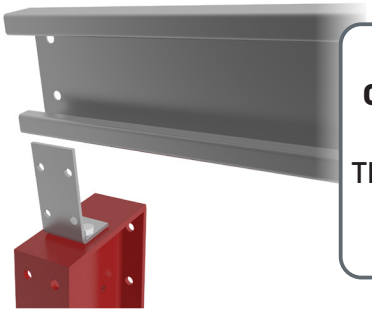
Use the **10 x 30 bolts** to fix the bolt-on drop outlet (B)

Tip: drill your gutters on the ground for greater convenience
Position your drop outlets according to potential
steel poles, drainage, rainwater run-off and slopes..

STEEL FRAME ASSEMBLY - PART 4

This part replaces section 3 page 26
if your building / sidewall does not have gutters.

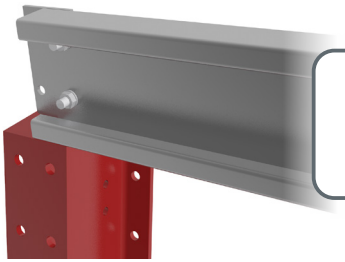
1



Position the
C shaped purlin C160 (or **C190**)
at the top of the 1st column.

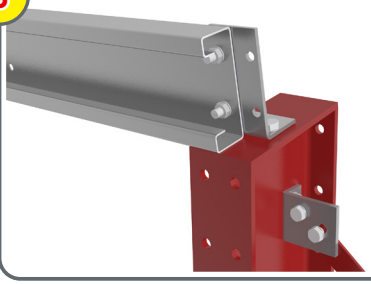
This purlin situated at the bottom of the slop is called a «wall purlin».

2



Bolt the purlin to the bracket of the 1st column with **12 x 30 bolts**.

3



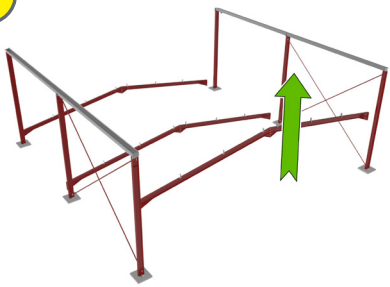
Bolt the purlin (and any reinforcing sleeves) to the bracket of the 2nd column with **12 x 30 bolts**.

4

Repeat steps 1 2 and 3 for each sidewall bay

STEEL FRAME ASSEMBLY - PART 5

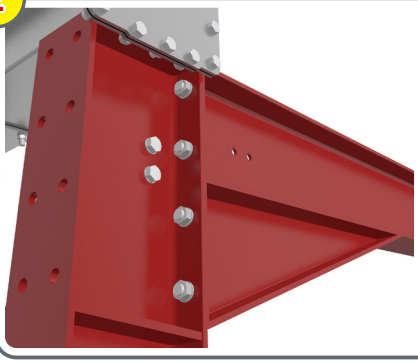
1



Once the columns, cross braces and gutters (or «wall purlins») are up (**compulsory**).

Raise the 1st gable.

2



Once risen, bolt the gable with **16 x 50 bolts**.

3

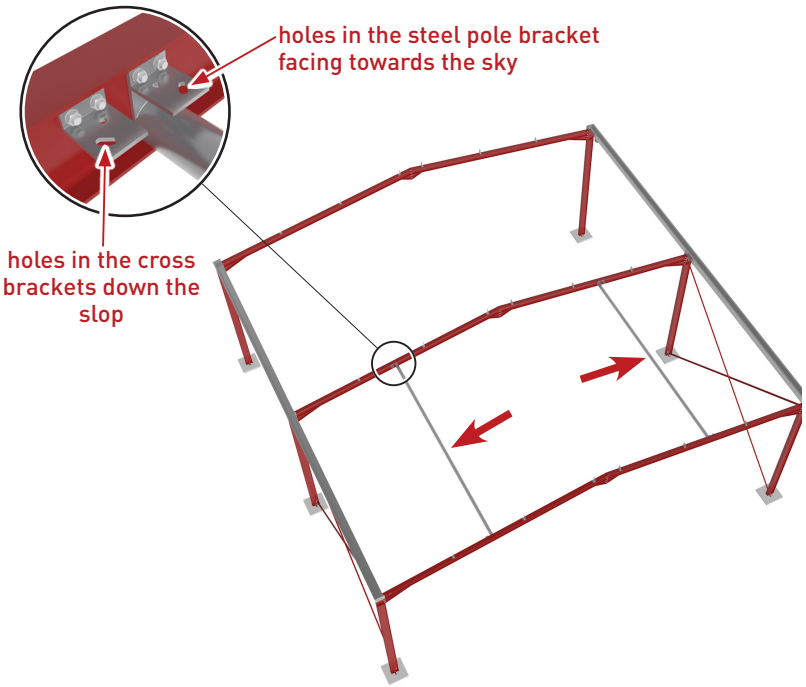
Repeat steps 1 and 2 along the entire length of the building.

If some of your gables have brackets for turnbuckles, it is essential to position these gables in accordance with the plan you have received;

If there is a bay enlarging beam (see page 25), a gable with a bracket for a turnbuckle must be positioned in the centre of the bay enlarging beam.

STEEL FRAME ASSEMBLY - PART 6

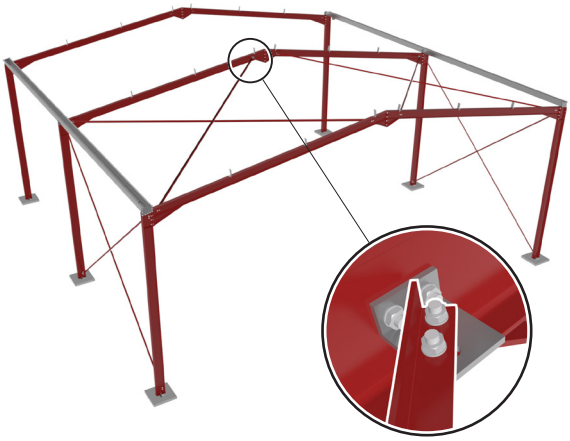
ONLY FOR GABLES WITH STEEL POLES



If your plan shows steel poles in the gables (particularly in the case of a dual sloped roof over 20 m wide), fix the steel pole in the middle of the bay, according to the plan you received, using **12 x 30 bolts**

STEEL FRAME ASSEMBLY - PART 7

1

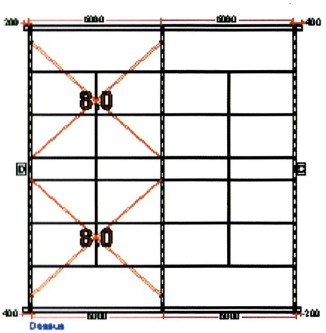


Secure the roof bracing crosses
with **12 x 30 bolts**.

CAUTION ! NEVER remove bracing crosses, even after assembly!

(contact us for any need to remove them)

Bracing crosses must be placed in the same bay as instructed in the plans received.



STEEL FRAME ASSEMBLY - REINFORCING SLEEVE OPTION

If your building was supplied with reinforcing sleeve, see page35 «reinforcing sleeve option».

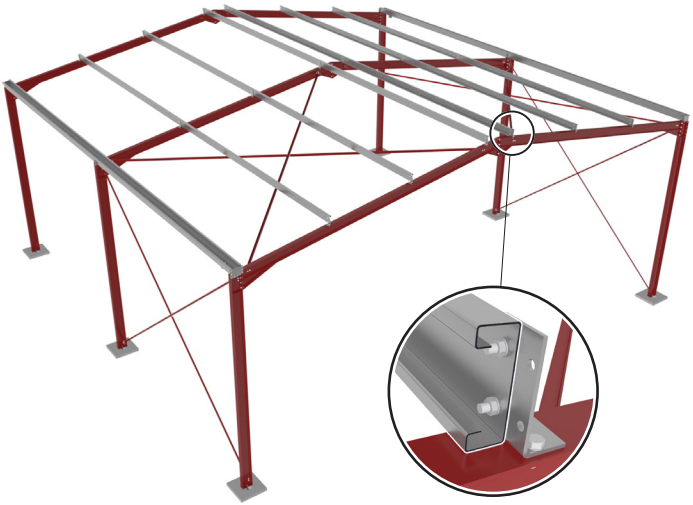
OPTION

Reinforcing sleeves increase the strength of the purlins.

This option is recommended where there is a risk of snow overload.

STEEL FRAME ASSEMBLY - PART 8

1



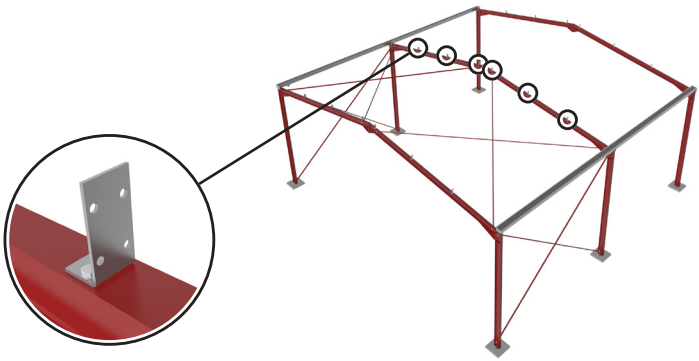
Position the C160 purlins (or C190) on the **purlin cleats** and bolt them with **12 x 30 bolts**.

Do not confuse C160 (or C190) purlins with C140 rails.
Look at the glossary on page 6 (and 10) if in doubt.

STEEL FRAME ASSEMBLY - REINFORCING SLEEVE OPTION

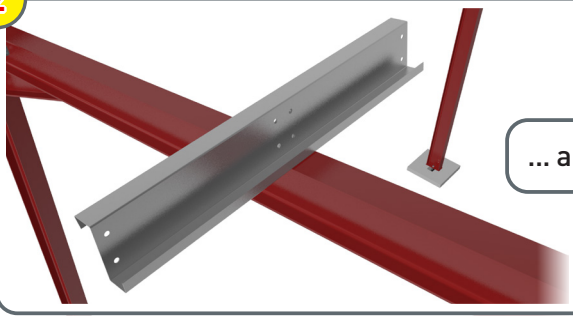
Applicable if your building was delivered with reinforcing sleeves

1



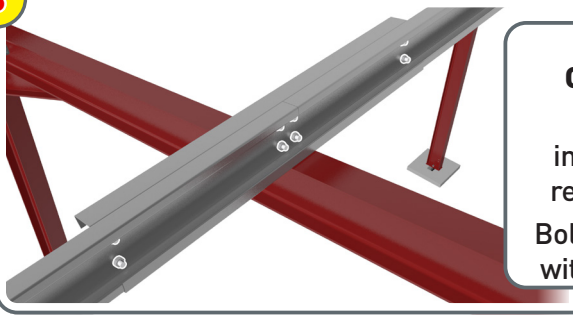
Place on each **purlin cleats** intermediate sections...

2



... a **reinforcing sleeve**.

3



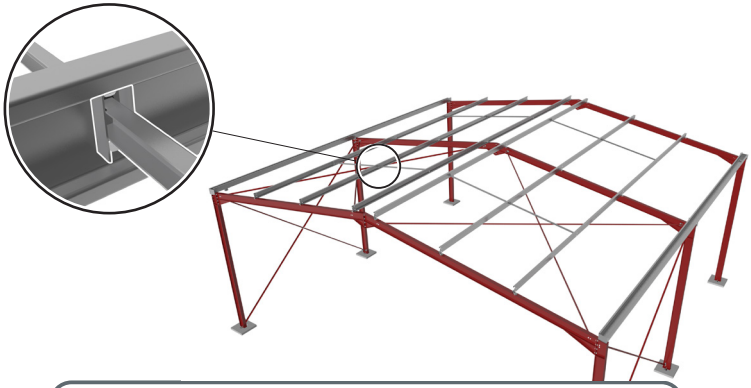
Place two **C shaped purlins** **C160** (ou **C190**) in the groove of the reinforcing sleeves.

Bolt them all together with **8 12 x 30 bolts**.

All of the purlins are pre-drilled at the factory

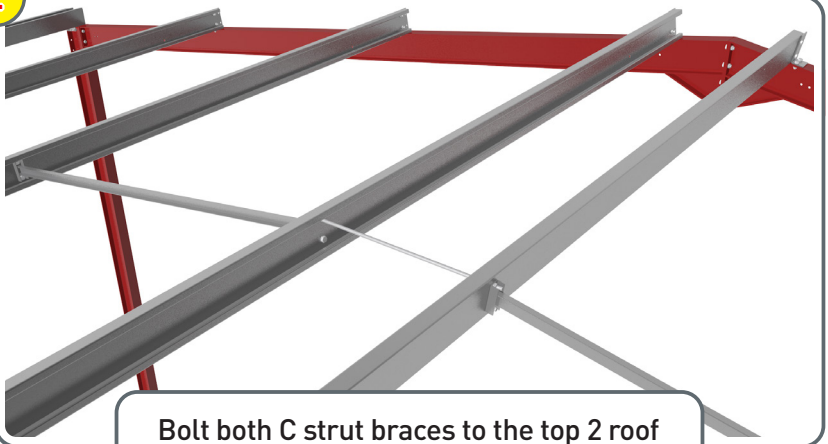
STEEL FRAME ASSEMBLY - PART 9

1



Install the C strut braces in the middle of each row of purlins using **12 x 30 bolts**.

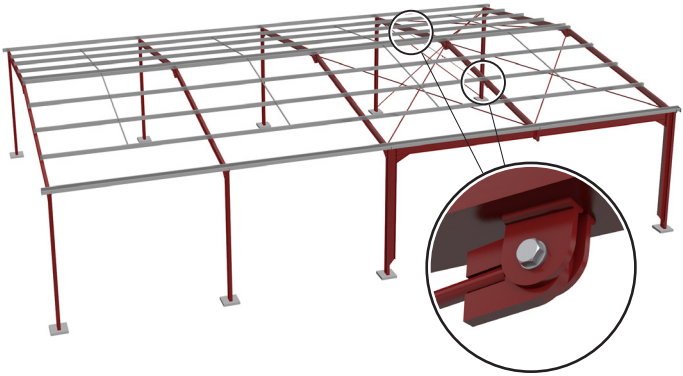
2



Bolt both C strut braces to the top 2 roof purlins using the rod and nut.

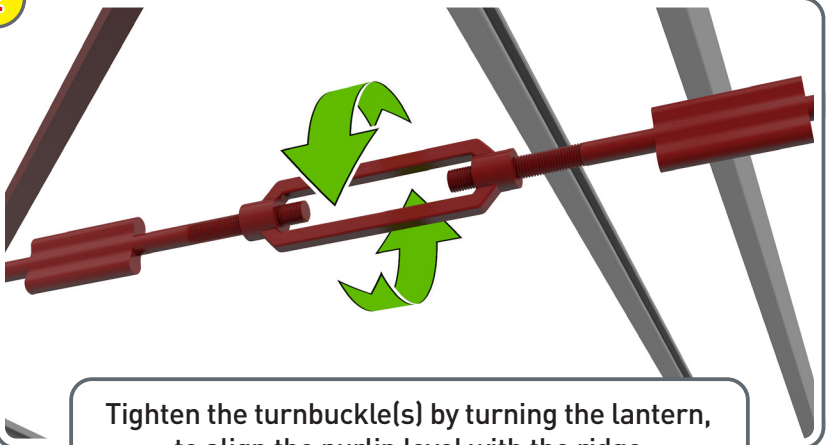
STEEL FRAME ASSEMBLY - PART 10

1



If your building has brackets for turnbuckles, (see bubble at the bottom of the page 31) install the turnbuckle with **18 x 60 bolts**.

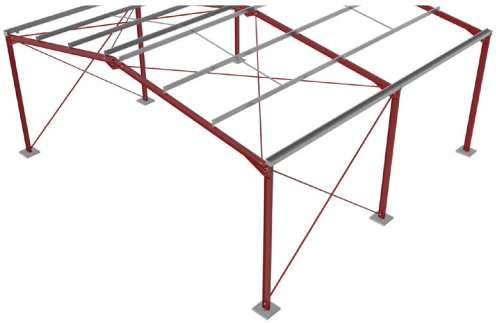
2



Tighten the turnbuckle(s) by turning the lantern, to align the purlin level with the ridge before laying the roof.

STEEL FRAME ASSEMBLY - PART 11

1

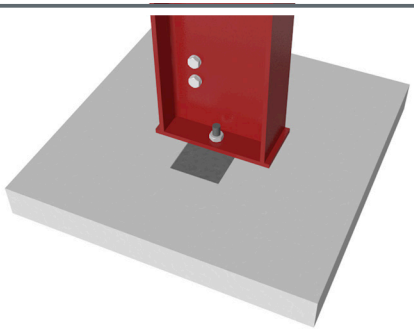


Check the alignment of the columns.

2

Tighten all the bolts in your building,
Don't forget to tighten the **anchoring brackets**.

3

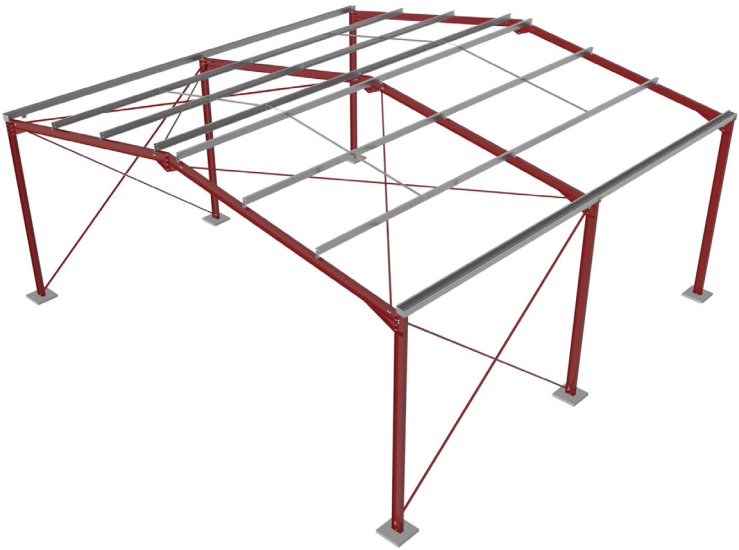


Pour the concrete into the blocks to
cover up the anchoring brackets.

The concrete must be poured into the blocks and left to dry before continuing with the installation.

STEEL FRAMEWORK FINISHED

Congratulations!



Once the concrete has dried, the framework of your building is now up and running!

You can now continue with the assembly of: roofing, wall cladding and accessories.

For an animated explanation of the build,
you can watch our assembly videos*
on our website :
www.screb.com

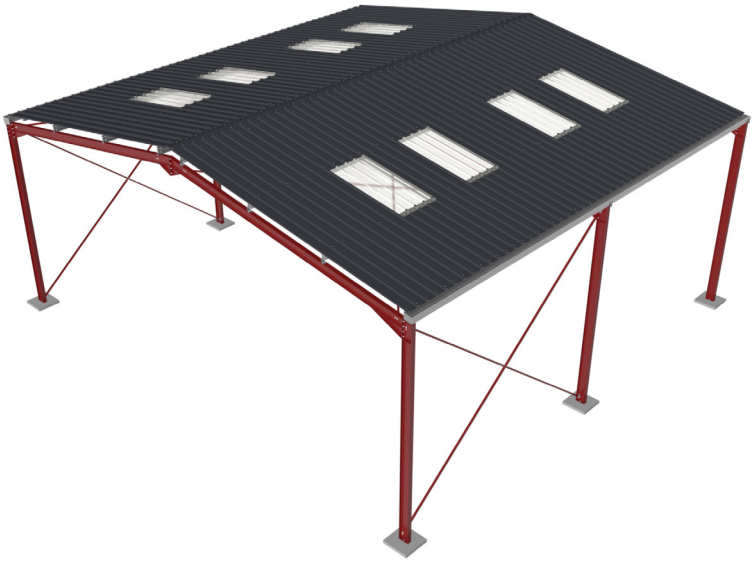
Or by scanning this QR-code :

If you encounter the slightest difficulty,
please don't hesitate to call our technical team
on +33 3 24 30 70 00.

Don't hesitate to make us part of your suggestions!

* In case there is a difference between our assembly videos and this manual,
the instructions in this manual prevail.

SCREB



PART 5

ROOFING

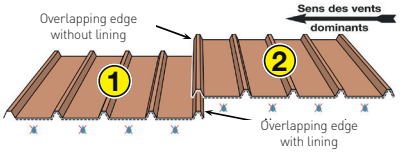
PREPARING ATG-PRO® ROOF SHEETS

Consult manual

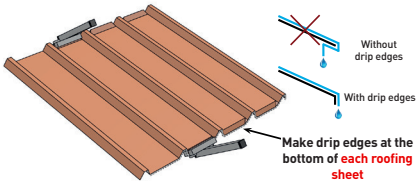
ATTENTION !

To ensure that the roofing sheets ATG-PRO work as they should and guarantee a longevity, it is vital that your building is well ventialted (according to DTU 40.35) and that the building instructions are PROPERLY FOLLOWED.

Respect the direction of installation

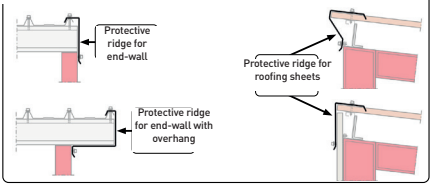


Make drip edges at the bottom of each roofing sheet using pliers provided

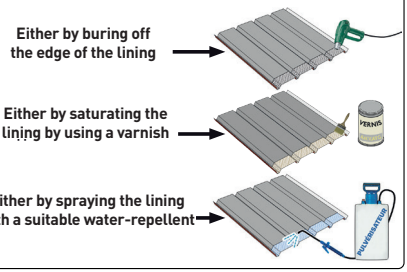


See otherside →

Cover the outside edges of the roofing sheets thanks to a protective ridge



To prevent any risks of water coming back up the roofing sheets, it is recommended to use ATG-PRO coating at the bottom of the sheets in the case of a slight slope or strong winds.



It is the clients responsibility to make sure that each product used is used with its correct purpose (check ATG-PRO booklet)

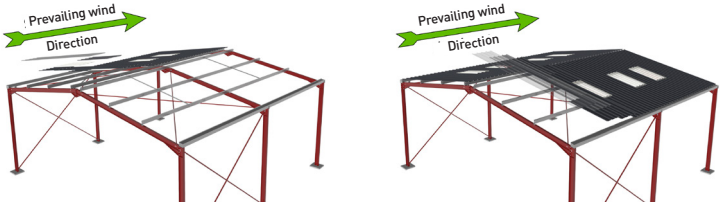
If your building has been delivered with roofing sheets with condensation control **ATG-PRO®** :

Please read suppliers' manual included with your roofing sheets « ATG-PRO® ».

This manual will explain how to neutralise the ATG-PRO® coating to avoid any problems linked to risks of water leaks. This neutralisation must be carried out before fixing the sheets.

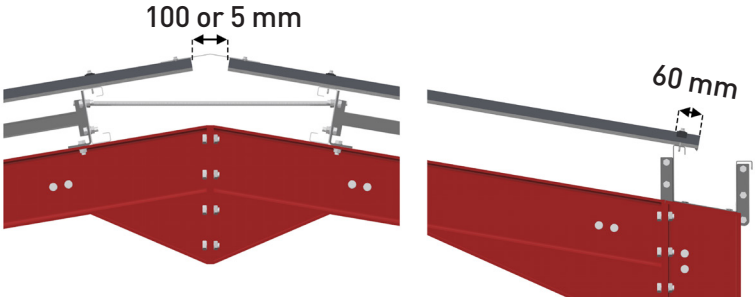
IMPORTANT ROOFING RULES

Prevailing wind direction



Lay the sheets in accordance with the **prevailing winds** to avoid water rising up from the overlaps.

Starting side



100 mm void at ridge if single layer steel sheets.
5 mm void at ridge if insulated steel sheets.
Overhang by **60 mm** over the gutter.

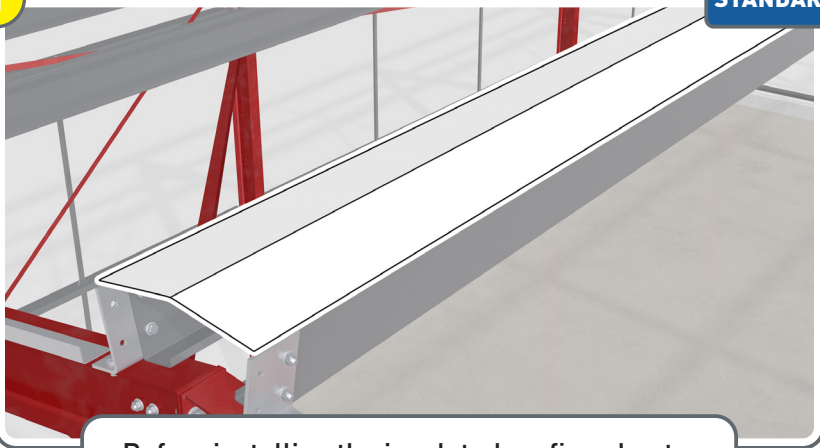
Layout

Before fitting the roofing sheets consult and follow the layout supplied with your building plans.

IN THE CASE OF INSULATED ROOFING

1

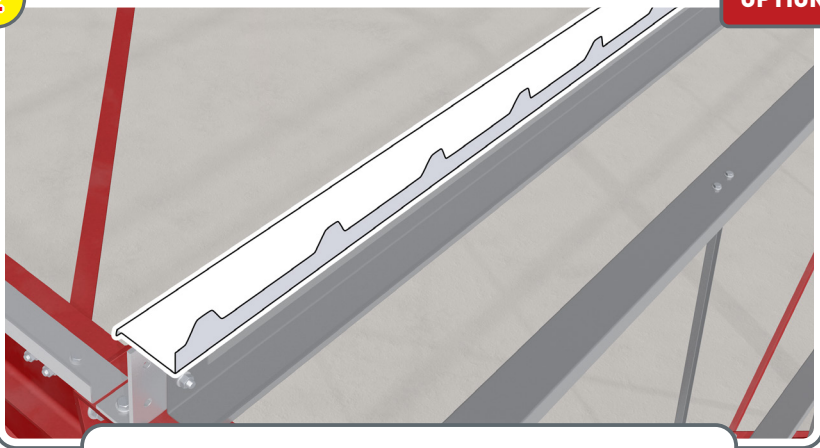
STANDARD



Before installing the insulated roofing sheets, place the **under ridge caps** on the top purlin

2

OPTION

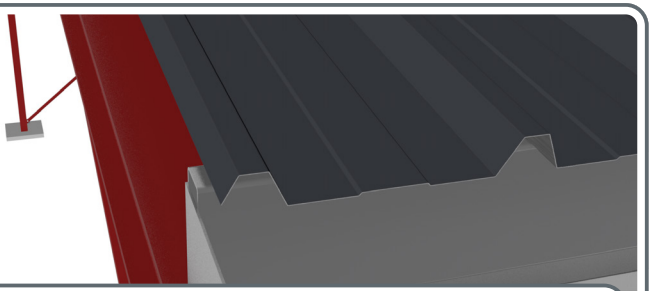


Before installing the insulated sheets place the **closures** on the wall purlins.

The **under ridge cap** and the **closures** can be temporarily held in place with double-sided adhesive tape. They are fixed to the purlins using roofing screws.

ROOF INSTALLATION - PART 1

1



If single layered steel roof sheets (as illustrated) **:**
Position the sheet on the edge of the crossbeam.

For insulated roof sheets :
Start with the «half-sheet» cut specificaly to cover the entire crossbeam (refer to the layout plan).

In any case : respect the starting dimensions on page 43 and always keep parallel to the crossbeams.

2

Secure the metal sheet using **6.3 x 60 Zacro screws**, **jumpers** and rubber **washers**. One screw per groove.

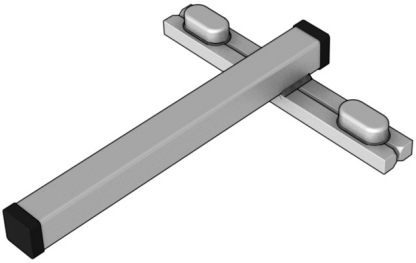
In some cases, you won't need to fasten the sheet to the ridge immediately. They will be used to fix the ridge caps (page 47).

3

Repeat steps 1 and 2 for each sheet.

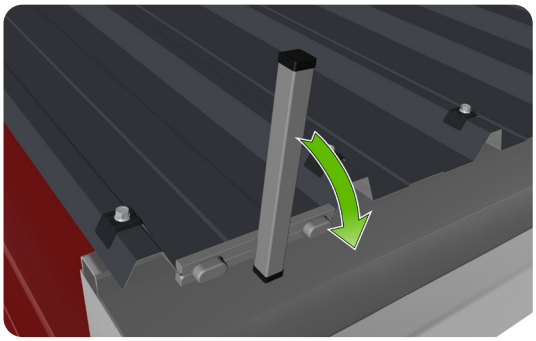
OPTION

This **metal plier** is used for the ATG-PRO® sheets...

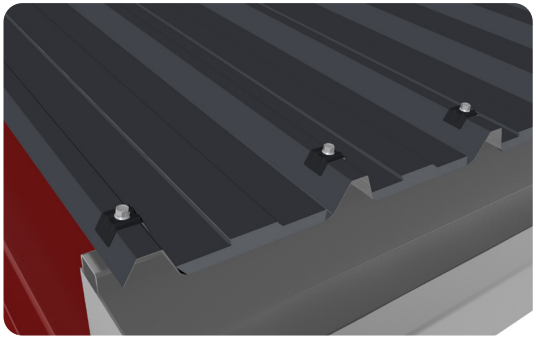


... use it to create drip edges, at the ridge (folded upwards) and at the bottom of the slope (folded downwards), on each sheet to prevent water rising up into the cladding.

1

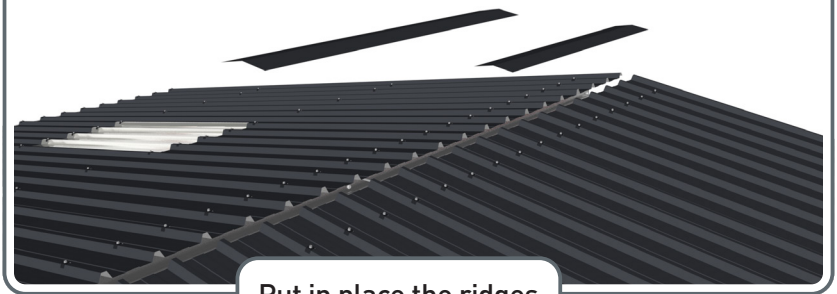


2



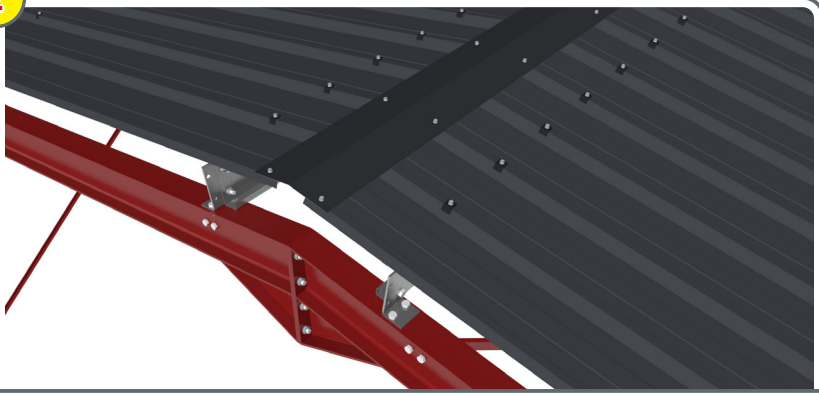
ROOF INSTALLATION - PART 3

1



Put in place the ridges

2



Fix the flat ridge cap with the
Zacro screws 6.3 x 22, 1 screw every 2 grooves.
Ditto for optional ridges (half ridges, serrated or ventilated).

For serrated ridges in the NET/IMA/INE range,
fix in the purlin with Zacro screws + jumpers + rubber washers.

If your roof has gable edges, do not screw the Zacro screws to the ends of the ridge immediately because your gables will slide under the ridge cap.

Your roof instalation is now finished !

FIBRE ROOFING SPECIFICATIONS

Applicable if your building was supplied with fibreboard panels.

1

Because of their thickness, fibreboard panels require to be cut at the corners of overlapping sheets.

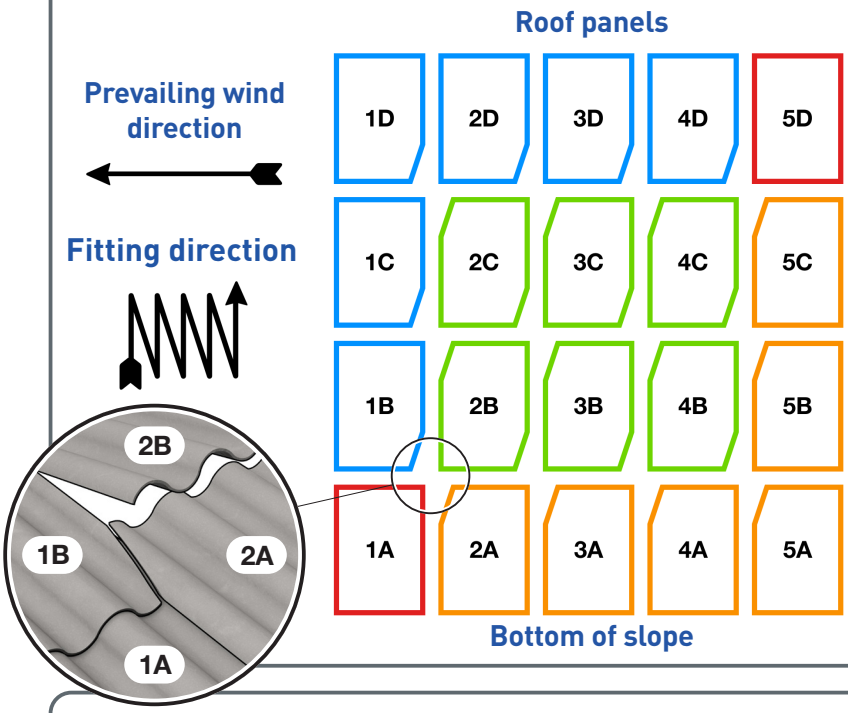
You will need to make the following ...

on the edges : 1 cut
in the middle : 2 cuts
on the sides : no cuts

We advise to make these cuts on the ground (see dimensions page 50).

Fibre roofing cuts - Panel A

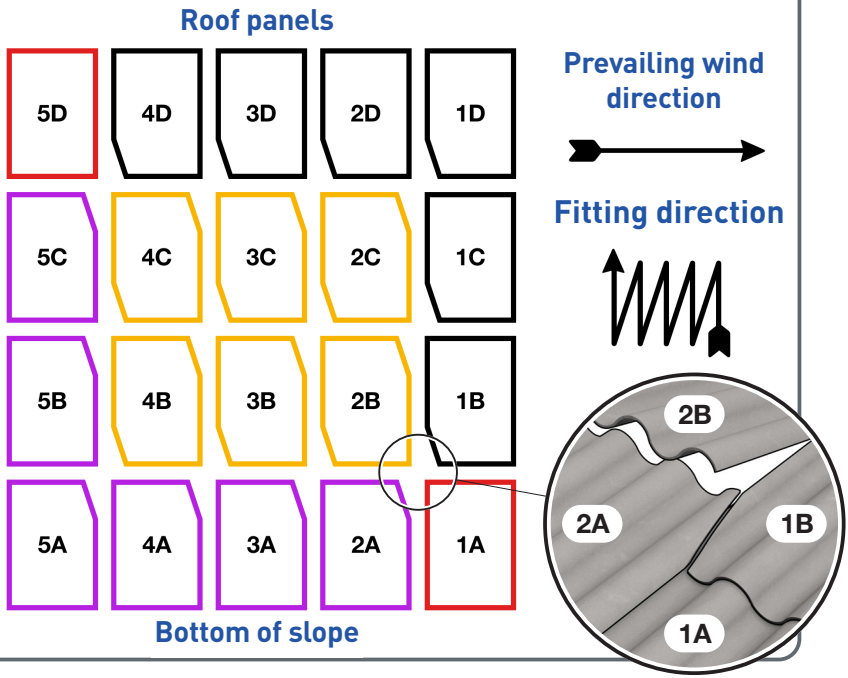
Example of a panel A, 5 panels wide and 4 panels high, seen from above.



On the other side, reverse the cuts (see next page).

Fibre roofing cuts - Panel B

Example of a panel B, 5 panels wide and 4 panels high, seen from above.



No ridge cuts for flat ridges!

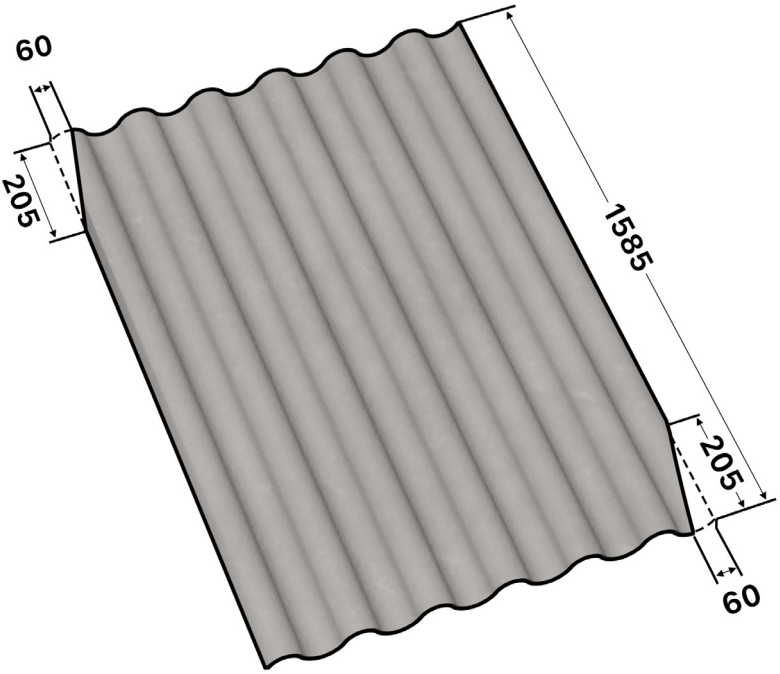
2 Measure the distances between purlins and drill the panels.

on the N°2 and N°5 groove (see diagrams on page 51)
Then fit them in.

3 Secure the panels with **6.3 x 95 screws**.

Tighten them by hand and then 1 / 4 turn : any more and you'll break the panels!

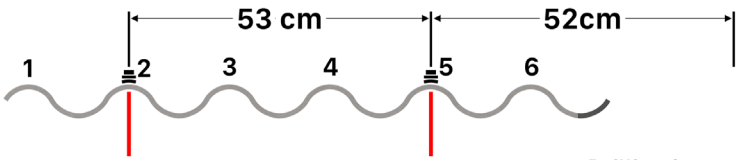
Fibre cutting dimensions



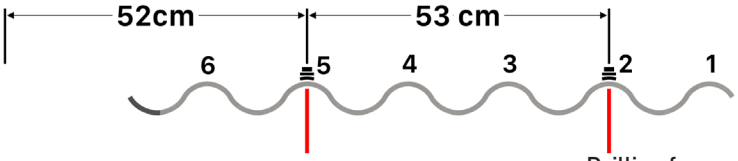
Example of a central plate from panel A, seen from above.
Reverse the cut angles on the other side and panel.

FIBRE ROOF SPECIFICATIONS

Drilling diagrams for fibre



Drilling for pan A

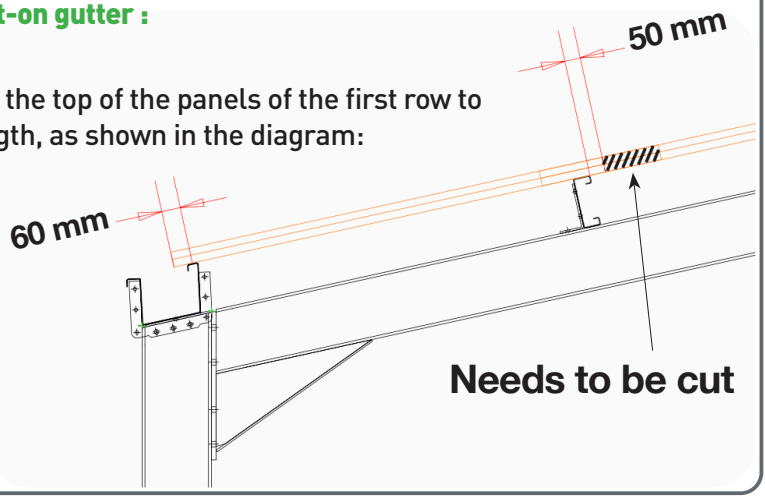


Drilling for pan B

Fibre cut if gutter to be bolted on

Only if your building was delivered with a bolt-on gutter :

Cut the top of the panels of the first row to length, as shown in the diagram:



SPECIAL POLYESTER FIBRE

Applicable if your building was supplied with polyester for fibre.

1

Polyesters for fibre are laid in a similar way to fibre roofing.

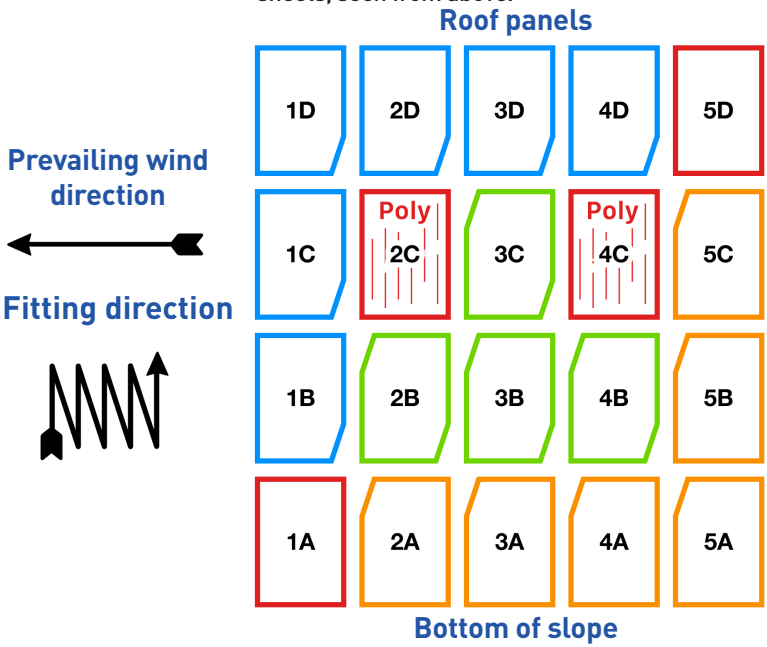
Thinner than fibre panels, they do not require to be cut at the overlaps.

You will need to fix the lower part of the polyester sheet with 3 fixings, on ripples N°1, N°3 and N°5

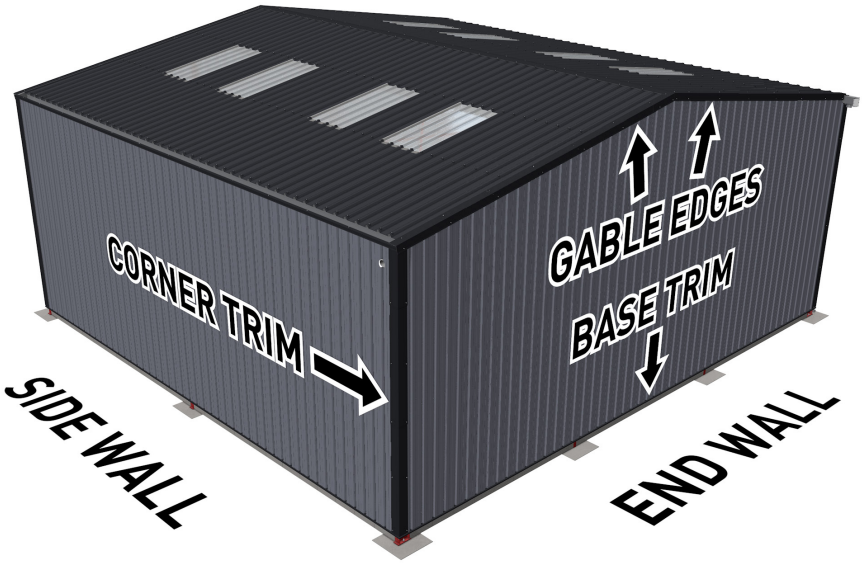
(see diagrams on page 51).

Cutting with polyester fibre - Panel A

Example of a panel A, 5 sheets wide and 4 sheets high, including 2 polyester sheets, seen from above.



Reverse the cuts on the other side.

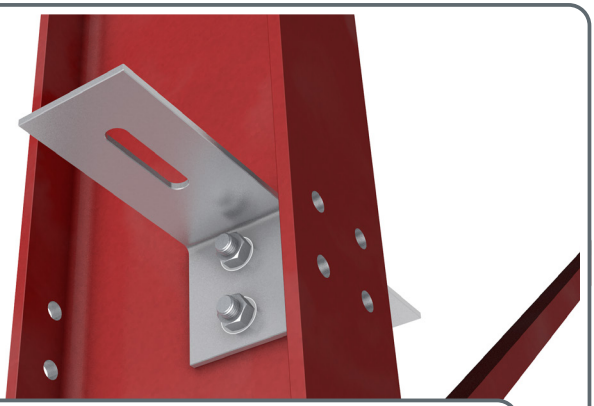


PART 6

CLADDING OPTIONS AND ACCESSORIES

SIDE WALL ASSEMBLY

1



Bolt the **C140 corner brackets** on either side of the posts with **12 x 50 bolts.**

2

Bolt the **C140 rails** to the corner brackets with **12 x 30 bolts.**

Do not confuse C160 (or C190) purlins with C140 rails.

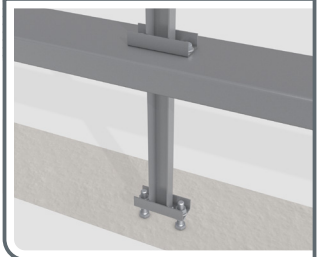
SIDE WALL ASSEMBLY

3

Install all **C140 rails** on the side wall

4

If your building is not insulated :
Position wedges to keep the
the rails perfectly horizontal.

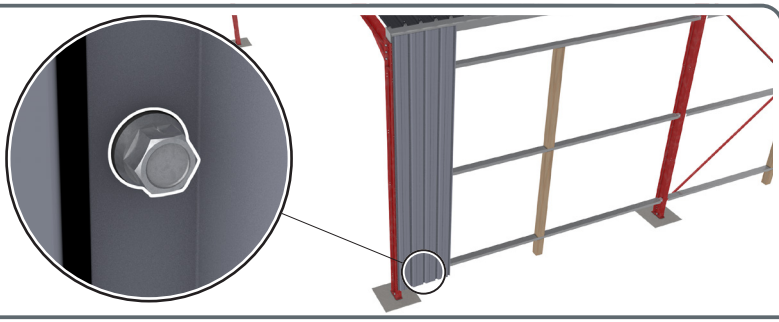


If your building is insulated : Bolt the C strut braces between the rails using **12 x 30 bolts**, according with the drawings.

Place a mini-C strut brace at the bottom. Adjust the rails horizontality with **12 x 50 bolts.**

SIDE WALL ASSEMBLY

5

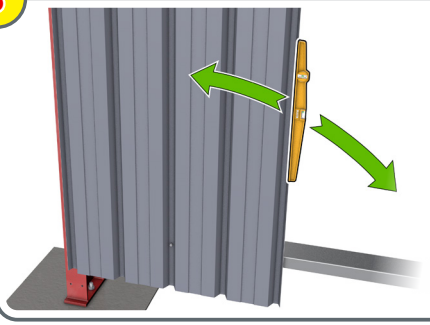


Place the 1st metal sheet in position.

If insulated cladding : place the long base trim (optional) and start with a «half-sheet» to cover the entire post (refer to layout plan).

Install the metal sheet at the bottom, in the **middle groove**, using **6.3 x 25 Zacro screw**.

6

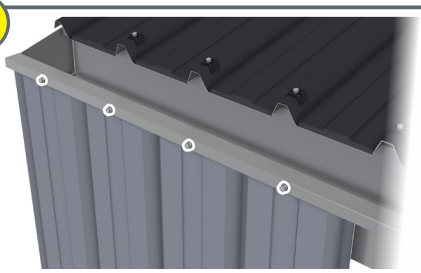


Check that the metal sheet is straight with a level.

Secure the entire sheet with **6.3 x 25 Zacro screw**.

1 Zacro screw per groove on each rail.

7



The top of the wall cladding should be slid in the gutter fold.

Fix the metal sheet with 4 **6.3 x 25 Zacro screws.**

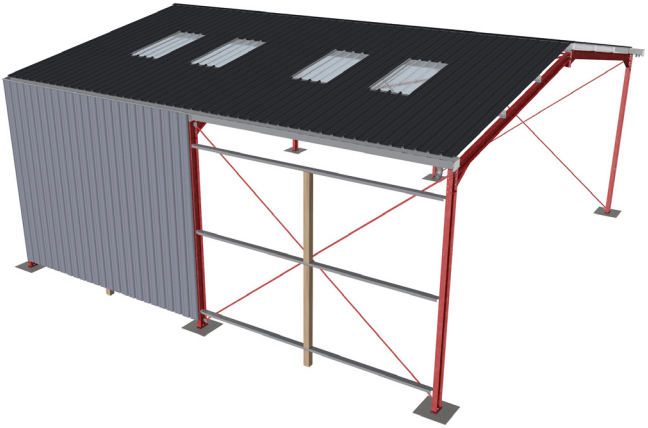
Without a bolt-on gutter, the top of the cladding is fixed to on the C160 (or C190) roof purlin (purlin which replaces the gutter).

SIDE WALL ASSEMBLY

8

Repeat steps **5** **6** and **7** with the 2nd metal sheet

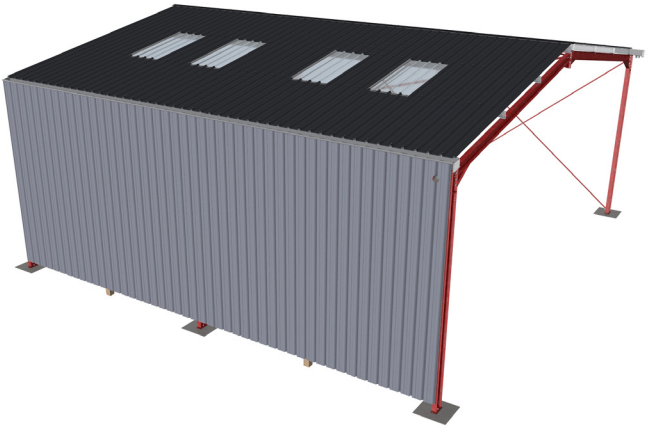
9



And so on, checking the verticality of each metal sheet with a level.

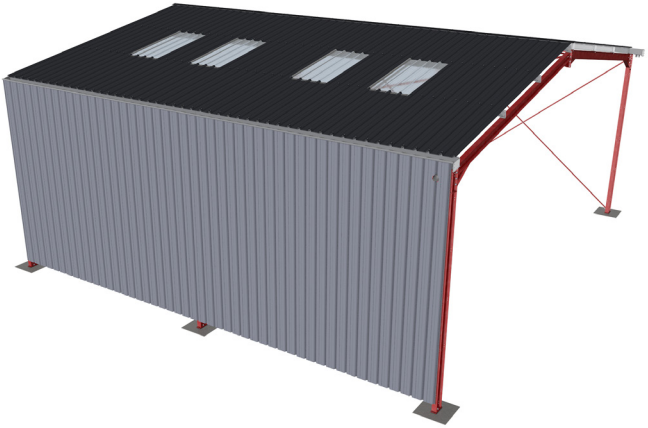
SIDE WALL ASSEMBLY

10



Continue to the end of the side wall

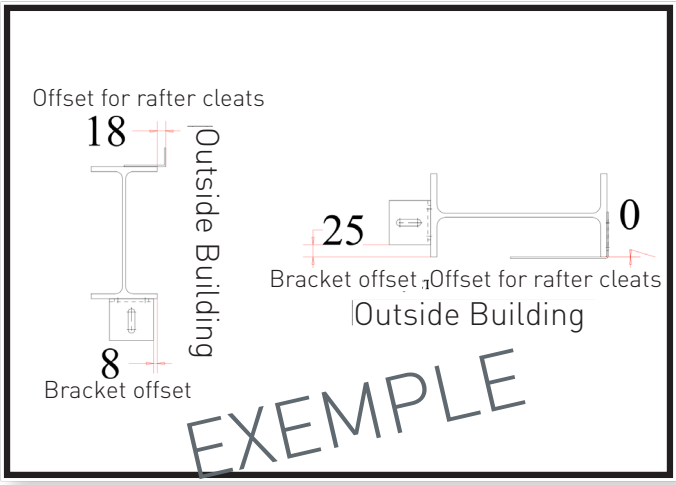
11



You can now remove any wedges you may have used during stage 4. Your side wall is now finished!

END WALL INSTALLATION

Offset plan to follow



If you have ordered end wall cladding,
you will be provided with a plan specifying
the offsets to be followed.

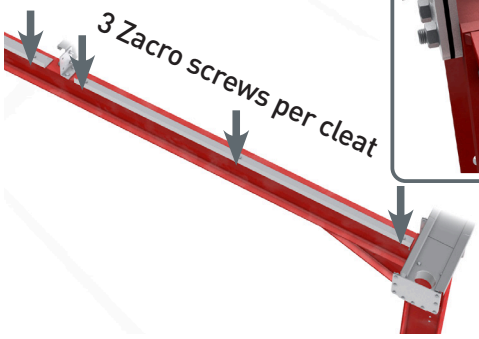
For perfect alignment of the end wall,
it is essential to respect this offset plan.

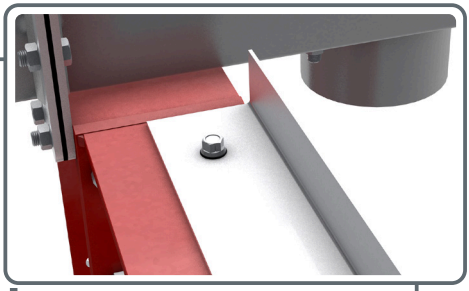
END WALL ASSEMBLY

1

If your posts are set in concrete (as shown)
dig your flowerbeds (60 x 60 x 60 cm minimum)
in accordance with the plan.

2





Fix the **rafter cleats** to the end wall rafter with **6.3 x 25 Zacro screw.**

The positioning of the cleats for rafters in relation to the end wall rafters must comply with the offset plan.

END WALL ASSEMBLY

3

Bolt the **brackets for the end wall posts** to the crossbeams with the **12 x 30 bolts.**

The fixing holes and the position of the brackets in relation to the crossbeams must respect the offset plan.

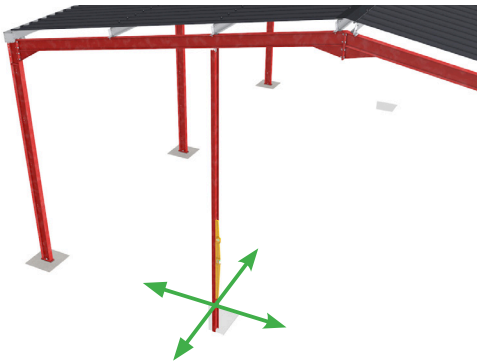
Then bolt the top of the posts to the brackets with **12 x 30 bolts.**

4

If your end-wall cladding has a central post, bolt the top of this post to its support (pre-welded) with **12 x 30 bolts.**

END WALL ASSEMBLY

5



Before embedding the posts in concrete, make sure they are level in both axes, then position the posts

6

Set your posts in concrete (as illustrated).
If your posts have base plates, bolt them to your slab using **anchor bolts** (not anchoring brackets).

END WALL ASSEMBLY

7

Bolt the **C140 corner brackets** to either side of the posts with **12 x 50 bolts.**

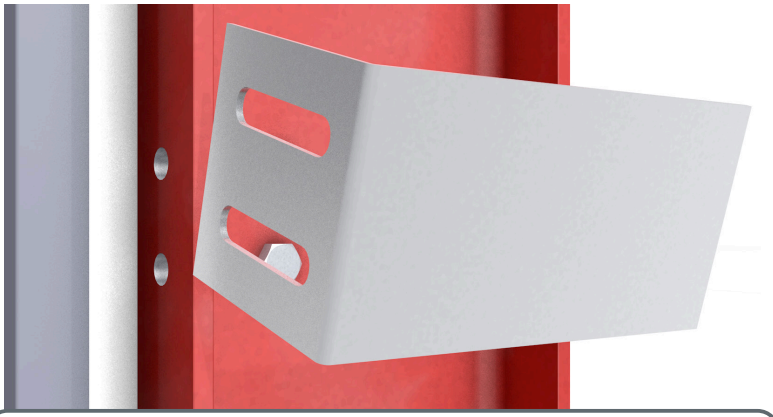
8

Bolt on **C140 brackets** for «**end wall columns**» on the cladding columns using **12 x 50 bolts.**

The fixing holes and the position of the brackets in relation to the crossbeams must respect the offset plan.

END WALL ASSEMBLY

9



If your wall cladding is single layered steel (as shown)...

10

... position the **column cleats** against the cladding columns and bolt them in place using **12 x 30 bolts.**

The position of the column cleats with respect to the posts must respect the offset plan.

In the case of insulated cladding there is no need for column cleats.

END WALL ASSEMBLY

11

Bolt the **C140 rails** to the brackets that are bolted to the columns using **12 x 30 bolts**.
If step **8** has been carried out correctly, your C140 rails will be perfectly aligned with the column cleats.

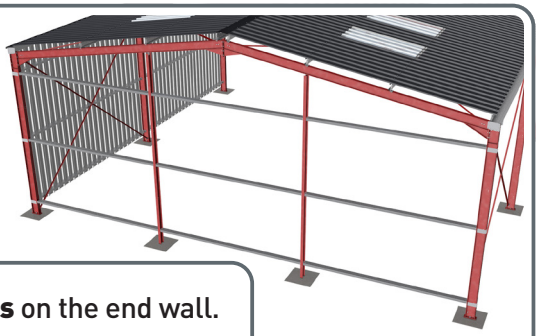
12

Bolt the **C140 rails** to the brackets bolted to the posts using **12 x 30 bolts.**

Do not confuse C160 (or C190) C shaped purlins with the C140 rails.

END WALL ASSEMBLY

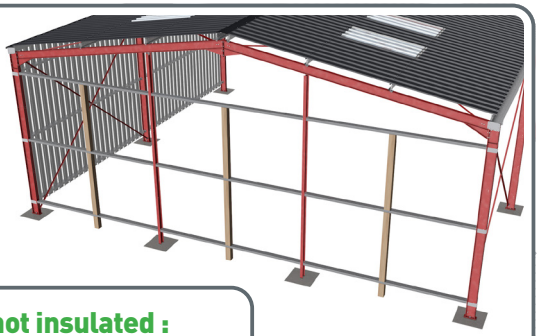
13



Install all the **C140 rails** on the end wall.

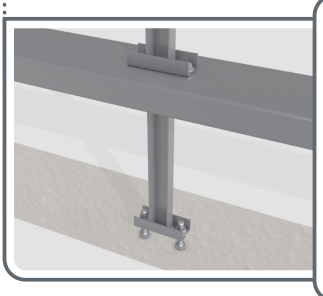
Follow the measurements given in your plans. If necessary, cut and drill the rails to size.

14



If your building is not insulated :

Position wedges to keep the rails perfectly horizontal.



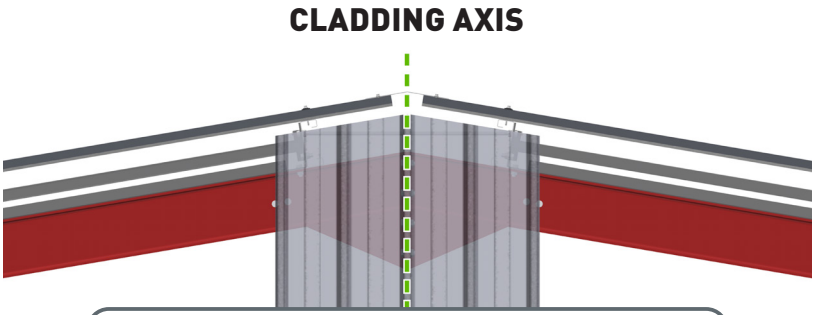
If your building is insulated :

Bolt the cladding C strut braces between the rails using **12 x 30 bolts**, according to the plans you have received.

Place a mini C strut brace at the bottom. Adjust the horizontal position of the rails with the **12 x 50 bolts.**

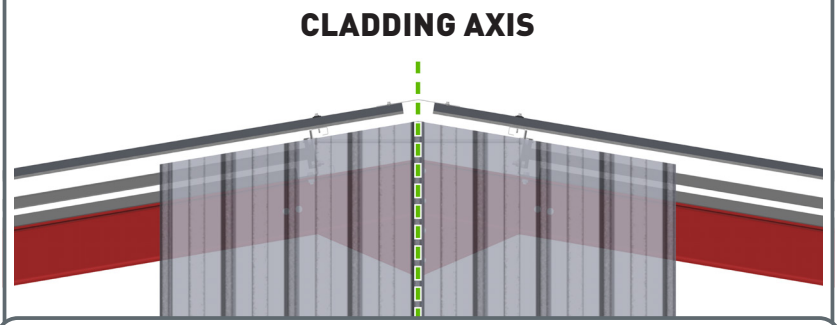
END WALL ASSEMBLY

Situation 1



If your plan shows **an odd number** of end wall cladding panels: fix your first panel in line with the cladding axis

Situation 2



If your plan shows **an even number** of end wall cladding panels: fix your first two panels in place so that the overlaping groove is in line with the cladding axis.

Situation 3

If your building is a single-sloped : follow the layout of your plan.

END WALL ASSEMBLY

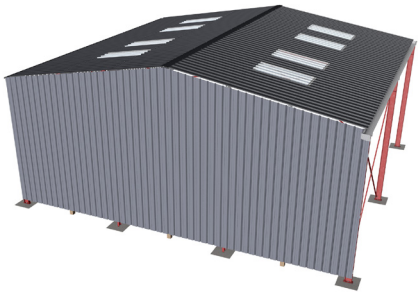
15

Install the panels as described in steps 5 and 6 on page 56.

Fix 1 **6.3 x 25 Zacro srew** per groove on every rail and rafters cleats.

(The wall assembly video on our website shows this step well)

16



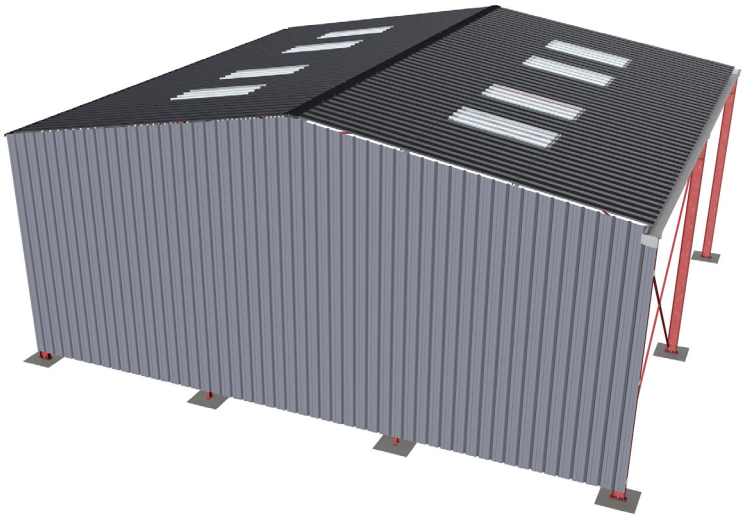
And so on, checking with a level that each panel is vertical before fitting the next. Continue on both sides of the end wall.

Layout and cuts

Consult and follow
the layout, dimensions and cuts
supplied with your plans.

We suggest that you make the cuts after the sheets have been fixed.

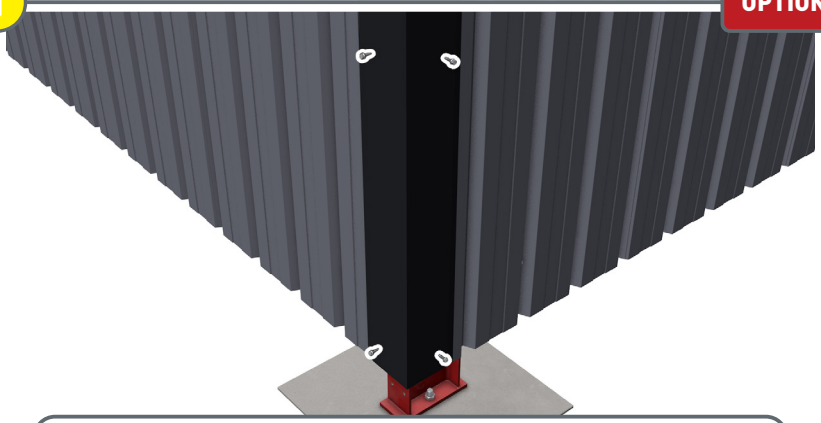
17



You can now remove the wedges from step 14
Your end wall cladding is now finished!

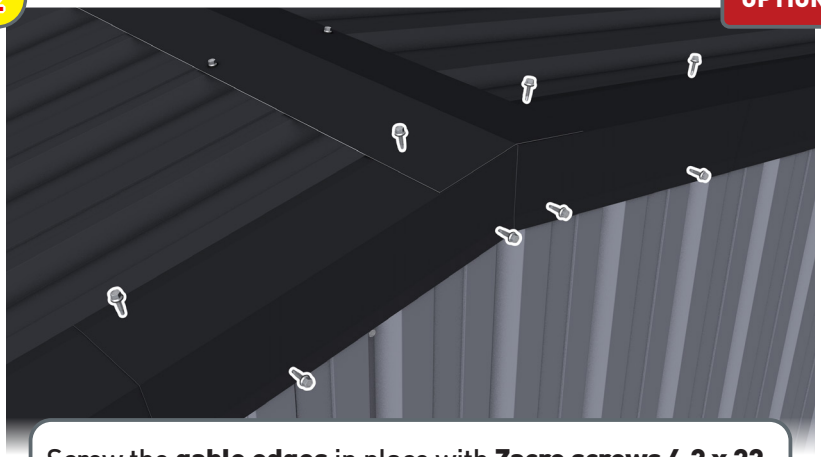
FINISHING COMPONENTS

1 OPTION



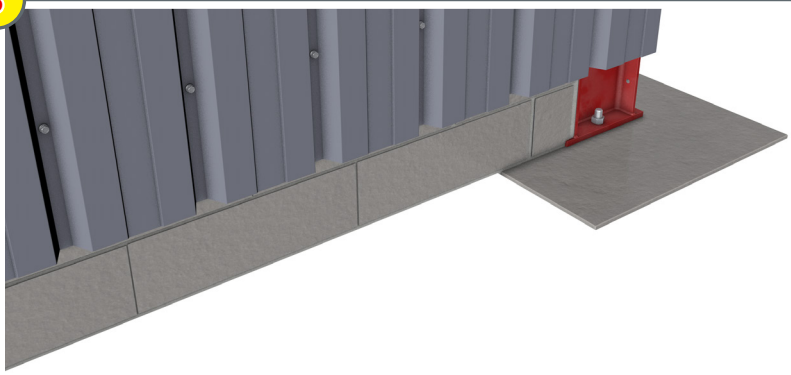
Screw on the **corner trims** using **6.3 x 22 Zacro screws.**
Use 1 Zacro screw per metre per side.
Lay from the bottom up to avoid water leaks.

2 OPTION



Screw the **gable edges** in place with **Zacro screws 6.3 x 22.**
Use 1 Zacro screw per metre per side.
Lay from the bottom up to avoid water leaks.
Slide the gables under the roof panels (stage 2 page 47).

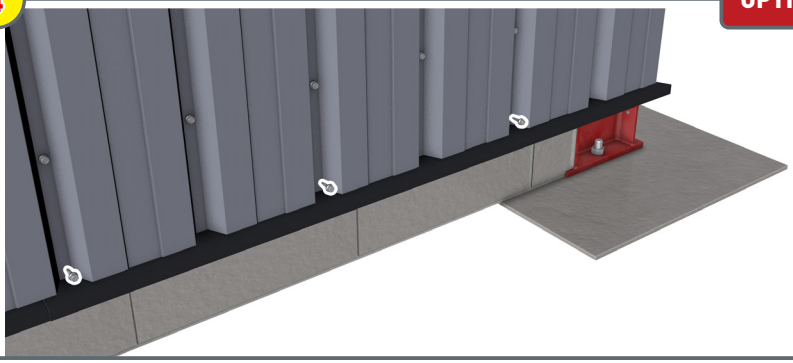
3



You can now build your wall

4

OPTION



Cut the **base trims** that are in the corners at a 45° angle.

If the base trims are single layered metal :

Slide the **base trims** at the bottom of the wall, behind the panels, then screw them in with **6.3 x 22 Zacro screws**.
1 Zacro screw every 50 cm.

If the wall panels are insulated :

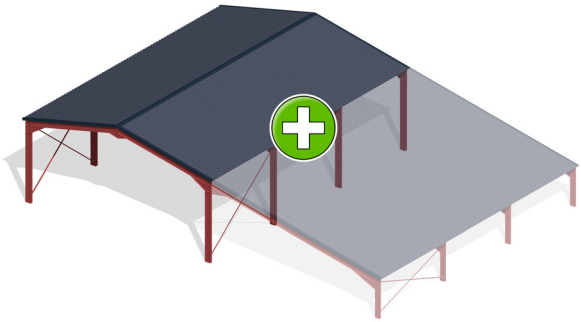
Your base trims have already been fixed by the insulated wall panels attachements. (See stage 5 page 56).

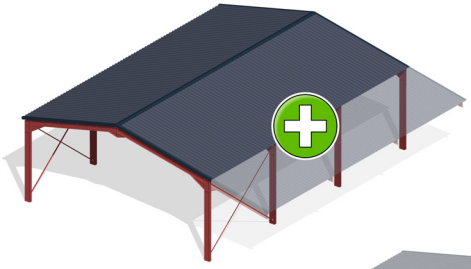
Congratulations your building is now finshed!

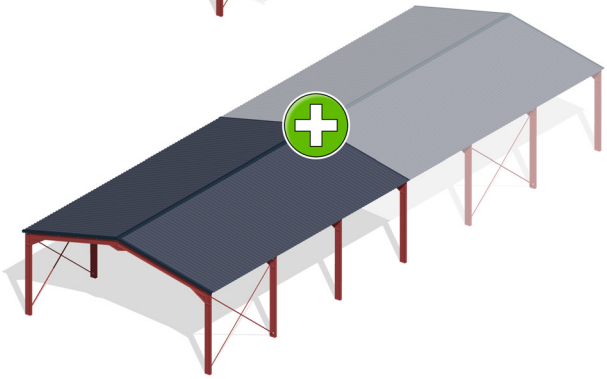
NOTES

WITH

SCREB GO LARGER!







SCREB frameworks are designed so that you can easily add an extension, a few months or even several years after. Contact us on +33 3 24 30 70 00 for more information.