



How to build it

ReBLOCK by ReBLOCK

Assembly principles

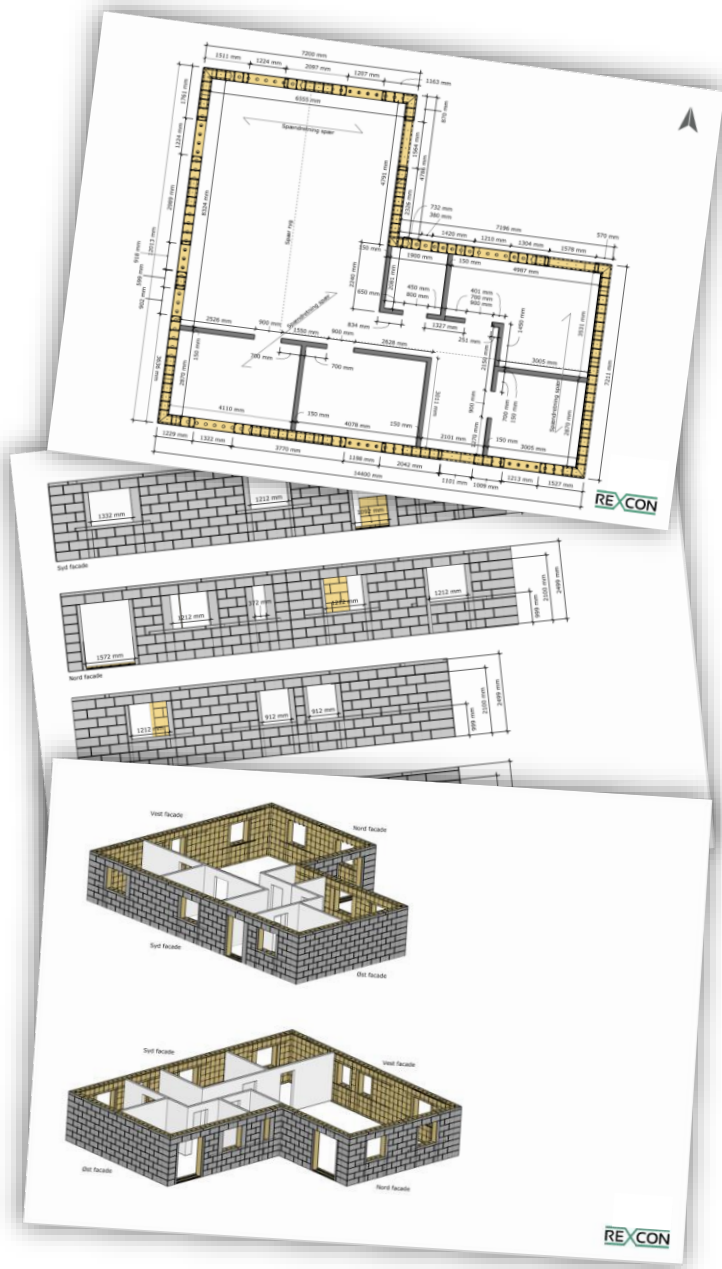
Receiving the ReBLOCK system

Control the received goods for any damage.

Make sure to store the goods completely **dry, ventilated** and **covered** from weather exposure.

Make sure to store the goods on firm, stable and level ground to avoid any tilting of the goods.





Find your unique project drawings

You'll find them in your e-mail inbox.

Make sure all drawings are available.

The content should be:

- (Add on) Plinth plan corresponding to your ReBLOCK project and your choice of outer wall cladding.
- Wall plate plans. Bottom and top plates.
- Elevation drawings of all facades in the project, with numbered components.
- One or more 3D visualizations

Your project unique drawings display numbered components, which makes building your project a breeze.

Wall plates & Roof anchors

Find the plan drawing showing your bottom wall plates.

Lay out your wall plates on top of the plinth/floor construction according to the plan.

Ensure that all dimensions are corresponding to those indicated on the drawing and fit the modular grid of the ReBLOCK system (300x300mm)

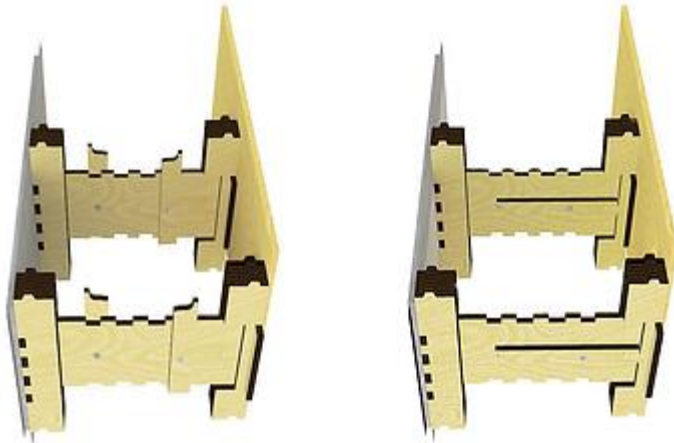
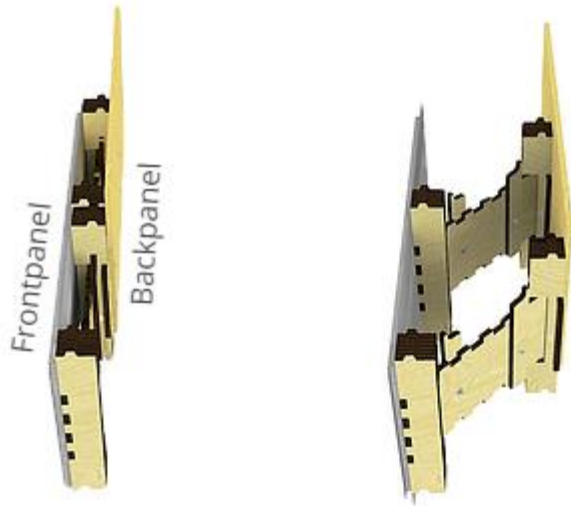
Cut the wall plates to form inner and outer corners. Use the pre-made markings on the wall plates for a perfect fit.

Attach the wall plates to the underlying plinth/floor construction.

Now it is time to coordinate and fixate the roof anchors to the underlying structure. Place the roof anchors at the pre-made holes in the centerline of the wallplate. There is a premade hole for every 300mm. Frequency, location and type of roof anchors must follow the project engineer's guidelines.



Unfold the ReBLOCK's



Place the ReBLOCK in front of you in an upright position. Hold the backpanel firmly with both hands. One hand at the lower edge and one at the upper edge of the backpanel. While the backpanel is facing yourself.

While keeping a firm grip of the backpanel - Quickly tilt the whole ReBLOCK to a horizontal position in a forward motion - DO NOT let go of it, while tilting it forward.

The ReBLOCK should unfold itself by this quick forward motion - If not - Give the whole ReBLOCK a light shake mid air and it should unfold itself fully this way.

Make sure that all internal hinge components unfold themselves to such an extent that all arrow markers at each hinge components become fully visible.

Now rotate the ReBLOCK back again to an upright position.

Make sure to firmly rotate and 'lock' all pivotable arms at each hinge component in each ReBLOCK.

The pivotable arms are to be in a horizontal position to lock the hinge component when installed in a construction.

Placing the ReBLOCK's

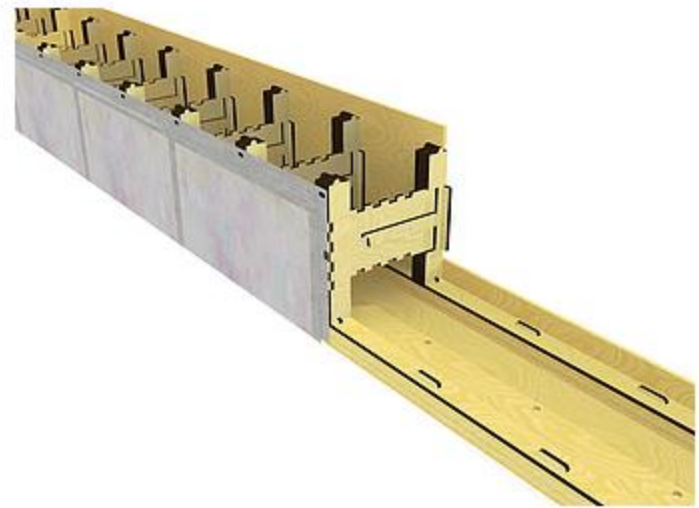
Your project unique facade drawings give you all the information you need from heron. It contains type numbers for all ReBLOCK components included in your project.

Find and match the ReBLOCK types corresponding to your facade drawing.

Place the different ReBLOCK types as indicated on the facade drawings.

Make sure to align the ReBLOCKs placement so they match the markings on the bottom wall plate.

You shall fasten the ReBLOCKs with the screws provided. Fill in all the pre-made holes on the internal as well as the external side of the ReBLOCK.
No more, no less.



Half bond pattern

By following the numbered facade drawings, a half bond pattern should occur in between the individual ReBLOCKs.

It makes all the ReBLOCK components interlock by each other and thereby your construction becomes stable and firm.

If a half bond pattern does not occur.

- Check ...

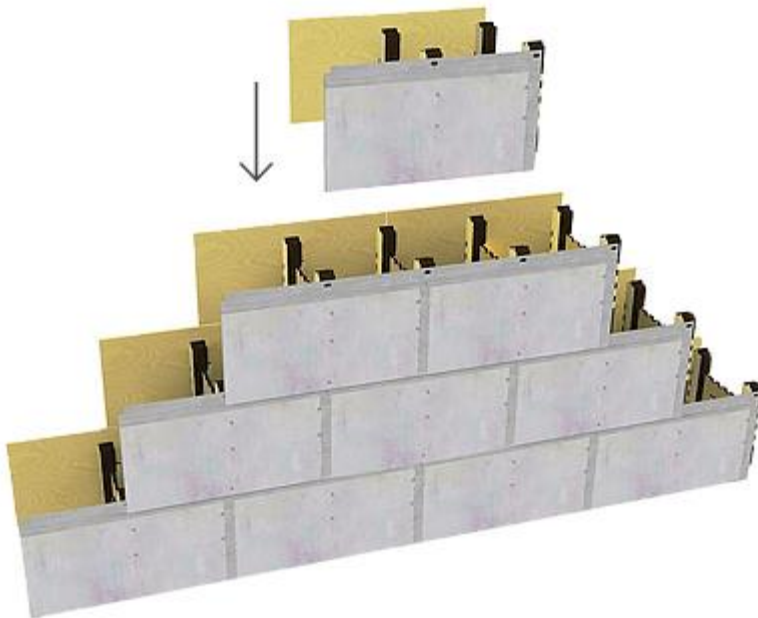
If your work is in line with the drawings provided. Count modules and aligned correct location of components.

- If placement is wrong ...

Simply rearrange the ReBLOCKs to line up with the drawings.

NOTE: Only remove screws from the pre-made holes, if a rearrangement is necessary.

There are exceptions to this half bond pattern rule of thumb. The exceptions usually occur at spandrels or lintels. Make sure to follow the drawings here.



Corners – In- & outwards

All corners joints are assembled with the included CS (Corner Set) components. The CS component set can be used for both in- and outward corner assemblies.

Place the CS components on top of and in alignment with the bottom wall plate corner.

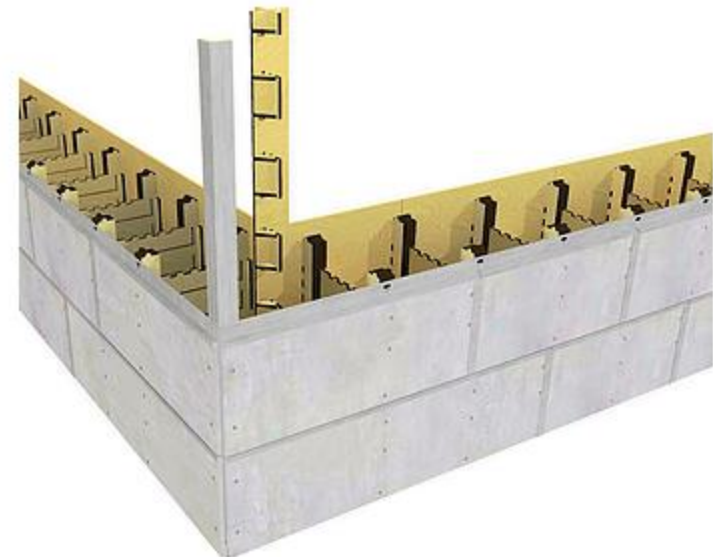
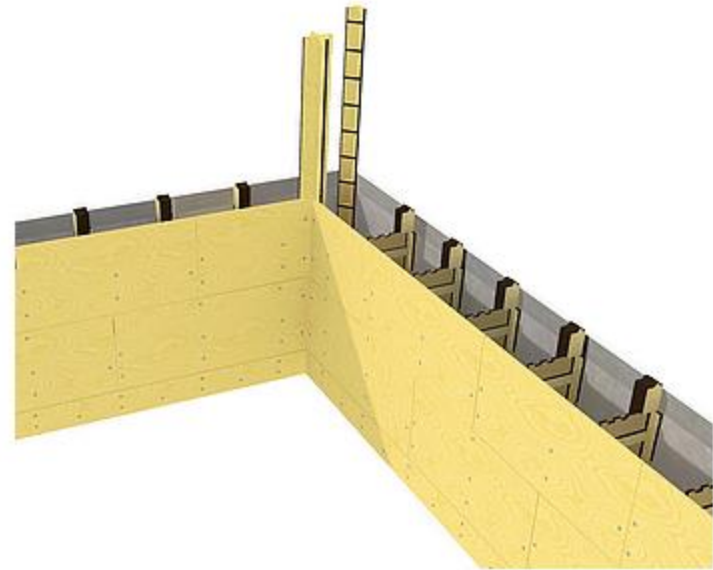
When embedding the included steel drainage profile, make sure it faces towards outdoor exposure – the side of the ReBLOCK with the grey panel.

Use a spirit level to make sure the CS components are mounted at a vertical plane in both directions of the adjacent walls.

Use the screws provided to mount the CS components. Only insert screws into the pre-made holes on the interior and exterior side of the ReBLOCKs when installing the CS components.

Repeat the above procedure when placing several CS components on top of each other.

Remember to ensure a tight overlap on the embedded drainage profiles so water is led away from the ReBLOCK structure.





Door & Window openings

Pay attention to your facade drawings and count your components to make sure the planned openings occur at the right places.

Make sure to use the right types of ReBLOCKs at each side of the openings.

Mounting the roof anchors

The roof anchors bracing strips are installed inside the ReBLOCK components as you build up the ReBLOCK structure.

Make sure they have a free course inside the structure and do not interfere with hinge components in a braced state.

NOTE: The roof anchors will be embedded in insulation material, when filling up the cavity of the ReBLOCK structure. Make sure the bracing strips are not positioned or installed in a way that prevents insulation material from enveloping it.



Sills

A top wall plate is used when creating a sill.

Cut the wall plate to fit into the opening in the wall structure.

Follow the markings on the wall plate for a perfect fit.

Make sure the wall plate fits in between the hinge components closest to the openings edges.

Mount the included support blocks for the sill.

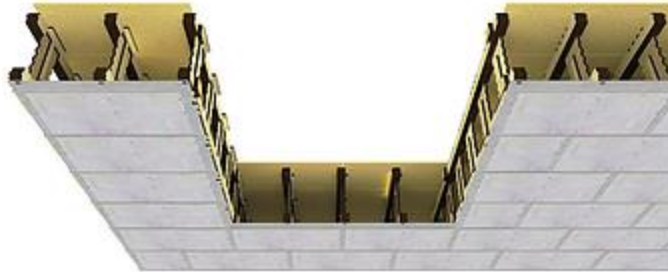
Use the screws provided.

Let the wall plates edges rest on the wall plates support blocks.

Use the screws provided to mount the wall plate component.

Only insert screws into the pre-made holes on the internal as well as the external side of the component.

No more, no less.



Linig components

Lining components come in full heights fit for door openings and in various widths depending on your project design.

Cut the bottom wall plate visible in door openings to fit the depth of the designated lining component.

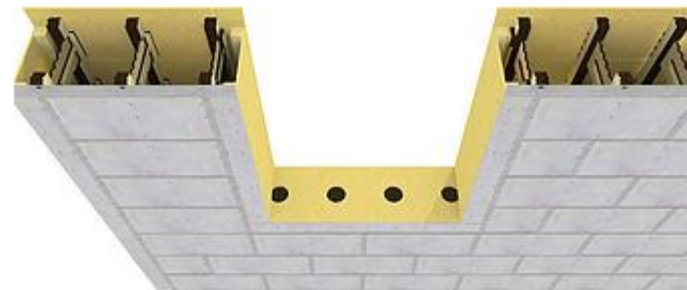
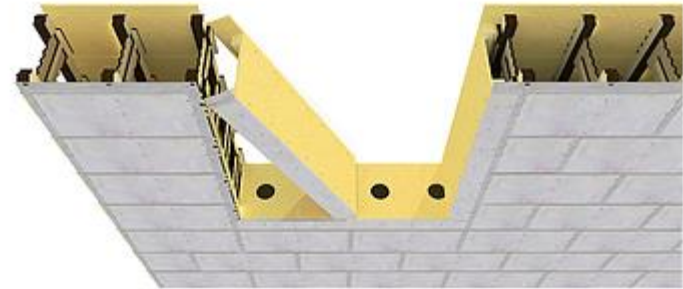
The lining components are to be cut in length when used as window linings.

Place the lining component on top of the sill when making a window opening and prior to laying the lintel to rest on its support blocks.

Use the screws provided to mount the lining component.

Only insert screws into the pre-made holes on the internal as well as the external side of the component.

No more, no less.



Lintels



The bottom wall plates are to be used for lintels.

Cut the wall plates to fit into openings in your wall structure.

Follow the markings on the wall plate for a perfect fit.

Make sure they fit between the hinge components closest to the opening edges.

Mount the included support blocks for both the sill and lintel.
Use the screws provided.

Let the wall plates edges rest on the support blocks.

Use the screws provided to mount the wall plate component.
Only insert screws into the pre-made holes on the internal as well as the external side of the component.
No more, no less.

NOTE: Remember to embed a reinforcing LT component to the ReBLOCKs placed on top of the lintel component.

Top wall plate

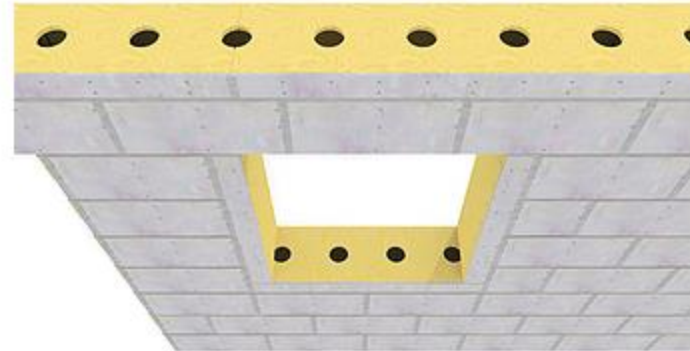
The top wall plate function as a lid on top of a wall structure.

Place the wall plate on top of the wall structure.

Use the screws provided to mount the wall plate component.
Only insert screws into the pre-made holes on the internal as well as the external side of the component.
No more, no less.

Cut the wall plates to form inner and outer corners. Use the pre-made markings on the wall plate for a perfect fit.

NOTE: Remember to bring up the roof anchors bracing strips at this state. Bring them up through the pre-made openings in the wall plate for further fixation to e.g. the trusses.



How to insulate it

- by the blow-in method

The ReBLOCK system is designed for loose fill insulation such as wood or paper fiber insulation.

We advice ONLY to use cellulose based insulation due to its humidity regulating capabilities which insure a healthy and sound environment for our biobased construction system.



Wood fiber insulation
Cellulose based



Paper fiber insulation
Cellulose based

The blow-in method

Is carried out by specially trained contractors with specialized machinery capable of injecting the exact amount of insulation material required for your project.

Through a flexible supply hose the contractor can ensure that the entire structure is correctly filled with insulation material.

The ReBLOCK systems top wall plate component comes with pre-made supply holes for the injection of insulation material.



The circular capabilities of loose fill insulation

The same machinery which injected the loose fill insulation inside the wall structure at first, is also capable of removing it again.

It is done by putting the machinery in reverse and 'vacuum clean' the insulation material back up again and preserve it for later reuse.

This makes sense in case of a move, a rebuild, an extension or a reduction, a change in your openings or the like in your ReBLOCK wall structure.

Why waste materials you've paid for once ? – Reuse it !