

Dry lining

Innovative reinforcement and decorative panels for drywalls

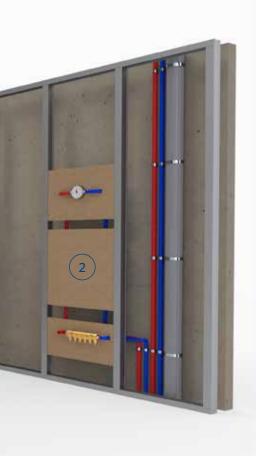




Reinforcement panels

Reinforce your walls faster, improve the impact resistance and work safery without risk of splinters. Add extra load-bearing capacity and robustness to drywalls with reinforcement panels that are quick and easy to install. The use of fine wooden chips ensures a smooth surface, no splinters and high screw tightness and withdrawal strength.





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Decorative finished panels

Finish wall linings and partition walls with innovative decorative wood-based panels. Choose Clicwall and reduce installation time thanks to use of dry materials in convenient format with an easy to install click profile.



Clicwall Paint

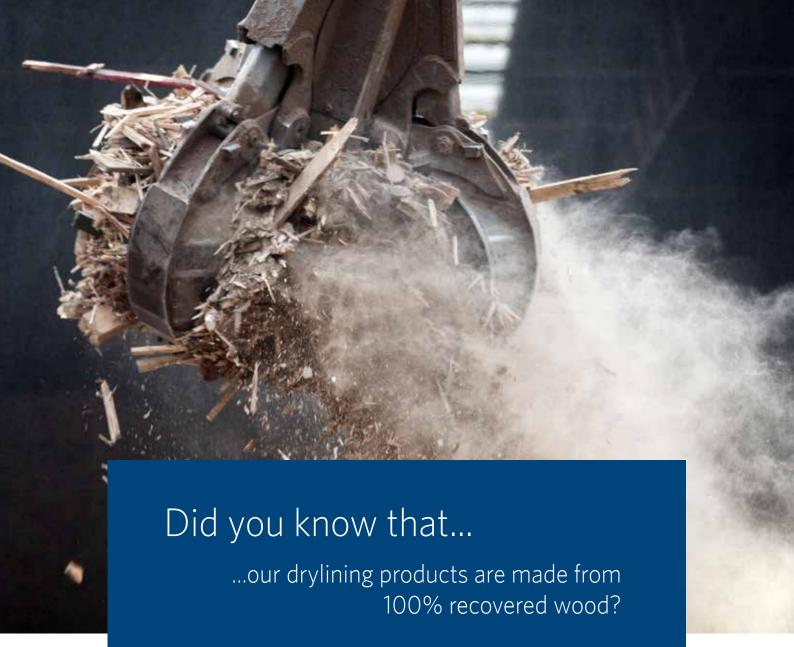


Clicwall



Melamine finished panel





PRE-CONSUMER WOOD

Our decorative finished panels in MDF are produced from 100% pre-consumer wood. This is wood and waste wood that has not yet had a product life. It is a by-product of activities such as sustainable forestry and verge maintenance, or from saw mills and the wood-processing industry. The wood would otherwise have been lost.

POST-CONSUMER WOOD

We use more than 90% post-consumer wood to produce our reinforcement panels. This wood has already had a product life, and may have come from the construction and demolition sector, businesses or domestic households. The other 10% is pre-consumer wood.

GREEN ENERGY

Wood dust that is produced by our production processes is reused as a renewable fuel for the dryers. In addition, we also operate two energy plants where non-recoverable wood is converted into green heat and electricity.

Reinforcement panels

Impact-resistant and without splinters

Installing reinforcement panels increases the wall stability, load-bearing capacity and acoustic comfort of wall linings and partition walls. The racking panels reinforce the wall element for mounting objects such as wash basins, kitchen cabinets and multimedia devices. The reinforcement panels, which are made from small wooden chips, are quick and easy to install, with no risk of splinters. Installing wall linings and partition walls with these reinforcement panels gives a more rigid, impact-resistant wall surface with increased load-bearing capacity and improved resistance to impact loads.



High bearing capacity and screw tightness



Quick and easy installation



Smooth surface without splinters







Qualirack TG



Reinforce drywalls in dry lining faster, with greater impact resistance and work without splinters. Qualirack TG reinforcement panels increase the wall stability, load-bearing capacity and acoustic comfort of wall linings and partition walls. The compact wooden chips in the core create a robust, impact-resistant reinforcement with high screw withdrawal strength. The fine top finishing ensures a smooth surface and no

splinters for fast finishing. The accurately milled profile ensures quick, easy installation and a nice connection at the seam. The high-quality and sustainable construction panels are produced from 100% recovered wood. The Qualirack TG P4 structural and racking board is suitable for use as a reinforcement panel in wall linings and partition walls in dry conditions, service class 1.

PROPERTIES



Robust and impact-resistant



Screw-tight



Smooth surface without splinters



Uniform surface quality



Quick and easy installation



Increased airtightness



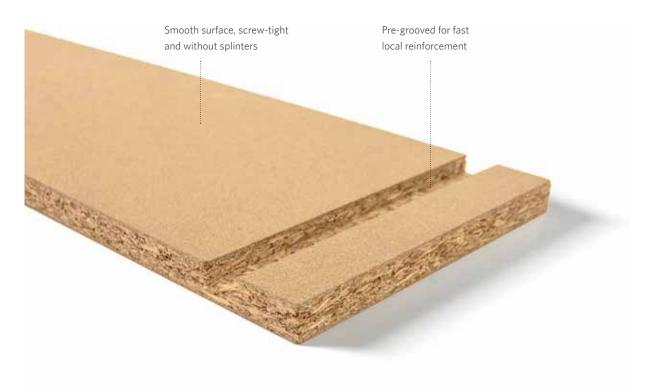
Tongue and groove on 4 sides



Dry conditions, service class 1



Qualirack Solidfix



Pre-grooved reinforcement bands, cut to small, convenient formats, provide quick and easy installation of local reinforcement for wall linings and partition walls. Thanks to the pre-milled groove, the Qualirack Solidfix reinforcement band is recessed into the supporting structure. The fine top finishing

ensures a smooth surface, no splinters and high screw tightness. The reinforcement bands are available in a range of convenient formats tailored to the type of reinforcement required. The Qualirack Solidfix P4 structural and racking board is suitable for use in dry conditions, service class 1.

PROPERTIES



Pre-grooved and pre-cutted



Smooth surface without splinters



Uniform panel quality



High load-beraing capacity



Quick and easy installation



Screw-tight



Dry conditions, service class 1





Sanipan is a pre-drilled reinforcement panel, suitable as rear wall panel for wall-hung toilets in dry lining construction. The pre-drilled openings in Sanipan ensure quick installation and easy finishing. The finely sanded surface also ensures that the wall panel can be finished with either paint or tiles. The panel is cut to size, format 1200×1230 mm, suitable

for wall-hung toilet systems. The compact top layer of woden chips ensures an even surface, no splinters and high screw tightness. The high-quality and sustainable Sanipan panels are produced from 100% recovered wood. Sanipan is a P5 structural board suitable for use in humid conditions, service class 2.

PROPERTIES



Tileable surface



Pre-drilled for wall-hung toilets



Quick and easy installation



Local reinforcement



Finely sanded surface



Humid conditions, service class 2



Decorative finished panels

Quick, easy and immediately finished

Finish wall linings and partition walls with innovative decorative wall panels. Choose Clicwall and reduce installation time thanks to use of dry materials, the convenient format of the panels and an easy to install click profile. Available with an immediate decorative finish or choose Clicwall Paint with a surface that can be easily painted or wallpapered.



Impact-resistant and scratch-resistant



Fast, dust-free installation



Immediately finished







Clicwall



Extra capacity is in demand everywhere – in care centres, offices, schools and other buildings. At the same time, time pressure is more critical than ever. The Clicwall drywalling system allows you to erect wall linings and partition walls in no time. The MDF-based wooden wall panels with innovative click profile are installed quickly and with no dust. They are also finished with an impact-

resistant, low-maintenance melamine top layer. The area can be used straight away, as soon as installation is complete, ensuring that no time is lost jointing or sanding. Clicwall can be installed five times faster than conventional drywall coverings. The panels are also available in fire-retardant and moisture-resistant versions.

PROPERTIES



Immediately finished



Fast and easy installation



Limit dirt, dust and cleaning up



Optionally fire-retardant



Optionally moisture-resistant



Dry conditions, service class 1

Clicwall Paint



Tired of having to wait for your filler to dry? Planning to install a finishing panel that you can finish straight away? Clicwall Paint gives you all of these benefits, and more. The finishing film allows you to install your wall panels and finish them straight away, either with a layer of paint, wallpaper, fleece or even digital prints.

This melamined, non-structural MDF panel with Uniclic profile has a high-quality finishing film that offers outstanding adhesion and a clean paint finish. Clicwall Paint is suitable for dry conditions, service class 1, primarily for wall linings and partition walls.

PROPERTIES



Finish with paint or wallpaper



Fast and easy installation



Limit dirt, dust and cleaning up



Optionally fire-retardant



Optionally moisture-resistant



Dry conditions, service class 1

Melamine finished wall panels



Melamined, immediately finished wall panels suitable for use in modular system wall construction, in line with the "circular" philosophy. Our finishing panels are combined into sleek, flexible wall systems that can be installed or expanded easily and cost-effective. Our wall panels are available as standard in clear white (Front White – decor

0025 or Basic White – decor 0020), with a pearlised structure TST or as a ready-to-paint finish with a finishing film (decor 0050). Formats 1185×3050 mm and 1185×2800 are perfect for use in system walls. The finished wall panels in melamine are suitable for use in dry conditions, service class 1.

PROPERTIES



Clear white (decor 0020 or 0025)



Dry conditions, service class 1



Ready-to-paint (decor 0050)

Drywall accessories

WINDOW AND DOOR FINISH



Window finish with aluminium corner profile



Window finish with aluminium L-profile



Window finish with MDF and window frame



INSIDE AND OUTSIDE CORNER FINISH

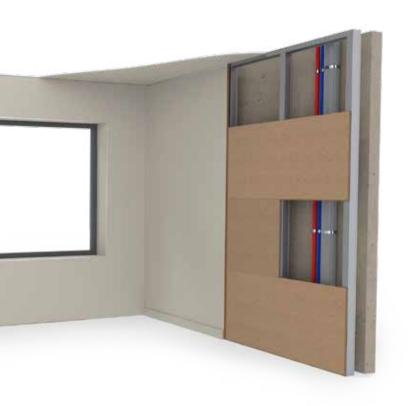


Aluminium external corner profile



Aluminium internal corner profile

FLOOR CONNECTION FINISHING



CEILING CONNECTION FINISHING



Ceiling finish with two aluminium L-profiles.



Raised vinyl floor



Decorative skirting board mounted under Clicwall



Decorative skirting board mounted in front of Clicwall

Fire safety

When a fire breaks out, every second counts. The slower the fire spreads and the slower the smoke develops, the more time there is to limit damage and to evacuate. There are two important pillars to fire safety: **fire reaction and fire resistance.**

What is fire reaction?

Many people who perish in a fire do so because of suffocation or rapid spread of the fire. The fire reaction of a product determines its contribution to these factors.

CLASSIFICATION

Seven main classes according to the European standard:

- A1 No contribution to the spread of fire
- A2 Virtually no contribution to the spread of fire
- B Flammable with very little contribution to the spread of fire
- C Flammable with little contribution to the spread of fire
- D Flammable with average contribution to the spread of fire
- E Flammable with (very) high contribution to the spread of fire
- F Potentially flammable, no performance requirements

Smoke intensity

- s1 No or little smoke development
- s2 Average smoke development
- s3 Heavy smoke development

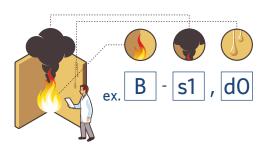
Flammable droplets/parts

- dO No droplet formation
- Flammable drop formation no longer than a
- prescribed time
- Flammable drop formation

FIRE-RETARDANT CLICWALL

Decorative finished panels have an important impact on the spread of flames from an incipient fire.

Fire-retardant Clicwall FR panels, with a red core, have reduced flammability, ensuring a positive reaction to incipient fires.





What is fire resistance?

Fire resistance refers to the capacity of a construction element to retain its supporting function, integrity and/or thermal insulation for a specified time in the event of fire. The higher the fire resistance of a construction element, the better capable the element is of limiting the spread of fire to other areas.

SOME OF OUR TESTED ASSEMBLIES



30' partition wall El30 Wooden frame

- 1 Clicwall 10 mm
- 2 Rockwool insulation (RockSono Solid 211): 60 mm - 45 kg/m³
- 3 Substructure: wooden studs



60' partition wall EI60 Metal stud

- 1 Clicwall FR 10 mm (Euro class B-s1,d0)
- 2 Antivlam 12 mm
- Rockwool insulation (RockSono Base 210): 40 mm 35 kg/m³
- 4 Substructure: metal studs

Load-bearing capacity

In addition to their contribution to acoustic comfort, reinforcement panels also help to improve the load-bearing capacity of wall linings and partition walls. Local reinforcement bands or large-format wall panels enable mounting of wall cabinets, multimedia devices such as televisions and sanitary equipment.

Load types

Shear force $(F_{//})$



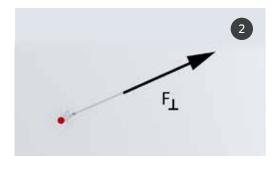
The weight of items such as mirrors and paintings effects a shear load on the panel. The load is a downwards oriented and the centre of origin of the load acts on the surface of the panel.



Tensile force (F₁) 2



The load of items such as clothes rails and washing lines effects a tensile load on the panel. The load is a horizontally oriented, directing away from the panel, and the centre of origin of the load acts on the surface of the panel.



Load tables

Shear force $(F_{//})$ and tensile force (F_{\perp})

The table below shows the maximum load-bearing capacity for reinforcement and decorative finished panels with shear force and tensile force for each fastening screw.

Decorative finished panel	Reinforcement panel	Shear force (F _{//})	Tensile force (F ₁)
Clicwall 10 mm		50 kg	70 kg
	Qualirack 12 mm	50 kg	100 kg
Clicwall 10 mm	Qualirack 12 mm	70 kg	160 kg

The following values are the result of tests with Würth $4.5 \times 45 \text{ mm} \ \emptyset \ 8.9 \ fastening screws (ref. 019004545) and apply solely to this type of fastener of the following values are the result of tests with Würth <math>4.5 \times 45 \text{ mm} \ \emptyset \ 8.9 \ fastening screws (ref. 019004545) and apply solely to this type of fastener of the following values are the result of tests with Würth <math>4.5 \times 45 \text{ mm} \ \emptyset \ 8.9 \ fastening screws (ref. 019004545) and apply solely to this type of fastener of the following values are the result of tests with Würth <math>4.5 \times 45 \text{ mm} \ \emptyset \ 8.9 \ fastening screws (ref. 019004545) and apply solely to this type of fastener of the following values are the result of the result of$



Product reference Würth 4.5 x 45 mm - Ø 8.9 (ref. 019004545)

Fasteners:

To take full advantage of the load-bearing capacity of Clicwall and Qualirack TG 12 mm, the full-thread Würth 4CS fastening screw assembly made from galvanised steel must be used. This full-thread screw with countersunk head is ideal for fastening fittings or cabinet connectors to UNILIN reinforcement and decorative finished panels, in dry conditions. Thanks to the RW drive, there is perfect force transmission and the screw can be better positioned and stabilised. The sleek fit with the bit enables one-handed working.

The aforementioned load tables are based on internal test configurations. The forces are provided for information for preparatory studies, drawings or price indications. The data are not a substitute for a complete stability study by an accredited engineering office or architect and cannot be used as reference in structural studies. UNILIN division panels and its suppliers accept no liability for the information in these studies.

Technical guide: Qualirack TG

1. General

Qualirack TG reinforcement panels increase the load-bearing capacity and the impact resistance of wall linings and partition walls. In addition, the panels also help to improve acoustic comfort. Local reinforcement bands or large-format wall panels enable mounting of wall cabinets, multimedia devices such as televisions and sanitary equipment.

2. Application

An application is assigned to every internal room, i.e. those with dry conditions, service class 1 such as living rooms, bedrooms, halls or rooms in humid conditions, service class 2 such as bathrooms.

Dry conditions

The vast majority of internal rooms are categorised as service class 1. In these rooms, there is typically a humidity level of 30 - 65% at a temperature of 20°C. For this application, Qualirack TG can be used as a reinforcement panel, finished with a decorative panel product of choice, such as Clicwall or plasterboard.

Humid conditions

In rooms with service class 2, such as bathrooms, the relative humidity is typically as much as 85%. Due to the high humidity, Qualirack TG cannot be used for reinforcement in these rooms.

If Qualirack TG is still the preferred option for this application, there should be close liaison with the manufacturer of the finishing layer as to the extent to which the high humidity in the room can reach the underlying layers. The manufacturer should then ensure a watertight barrier so that the Qualirack TG reinforcement panel is exposed to only those conditions that apply to service class 1 at a maximum.

3. Storage

Transport the panels carefully and after opening the packs of tongue and groove profiles, protect them with cardboard, cloth or shrink wrap to prevent damage and ensure smooth installation of the panels.

- Store the panels horizontally in a dry, well-ventilated room with a relative humidity of 40 - 60%. Ideally, this room should be the room in which the panels will be installed.
- During transport, storage and while on site, the panels must be protected against direct exposure to water, including rain and snow, with a plastic film or tarpaulin. Ensure adequate ventilation to prevent condensation.
- Direct contact with the ground must be avoided by using dry stacking blocks or pallets. If there is a risk of damp ground, a watertight film must be laid over the ground before stacking, e.g. polythene.
- Ensure that the panels are properly supported so that they cannot sag, and don't allow the panels to be loaded on the corners or edges.
- Qualirack TG in standard size can be carried by one person, taking into account a
 maximum lifting weight of 25 kg. However,
 to prevent damage to the edges, the panels
 should ideally be carried by two people.

Service class	Relative humidity at 20°C	Internal moisture content, chipboard	Panel type
Service class 1 (dry conditions)	30 - 65%	4 - 11%	P4 (Qualirack TG)
Service class 2 (humid conditions)	65 - 85%	11 - 17%	P5 (Durelis TG)
Service class 3 (wet conditions)	>85%	>17%	/

4. Fasteners



The following parameters may play a role in selecting the right fastner type:

Metal structure (metal stud)

- A HiLo screw thread is recommended. The double screw thread ensures good grip and goes in easily and, importantly, quickly. The coarse pitch ensures that the screw turns less quickly.
- A self-tapping screw is most suitable so that the screw thread can tap into the sheet steel and secure the attachment.
- A countersunk screw head ensures that the head is properly countersunk into the wood for a neat surface finish.
- Use a suitable metal screwdriver bit that can transfer a higher torque to the screw without damaging the bit or the screw itself. This helps to extend the service life of the screw and simplify installation.
- The length of the screw is determined according to the thickness of the reinforcement panel, the sheet steel and the length of the screw thread. The screw should ideally protrude two to three screw threads past the sheet steel.



Wooden structure

- Chipboard screws are recommended for fastening to wooden structures.
- A screw thread with milling ribs or dips ensures that the head is properly countersunk into the wood for a neat surface finish.
- The length of the screw should ideally be 45 mm at a minimum.



Chipboard screw (0165114545) Diameter: 4 mm - length: 45 mm

5. Installation instructions

Wooden panels, including Qualirack TG, OSB and plywood encounter dimensional changes under the influence of changing temperature and humidity. These panels need to acclimatise adequately so that the panel is installed in a moisture content equilibrium as close as possible to the expected moisture content during final use. Any expansion must be compensated with expansion joints.

- The building must be windtight and raintight before commencing installation.
 All wet work where a moisture/humidity loading could be released, such as screed floors and plastering, must be carried out and then dried thoroughly before Qualirack TG reinforcement panels are installed.
- The conditions in the installation area must be matched to the conditions during end use in terms of temperature and humidity. Always ventilate sufficiently.
- Place the packaged panels in the installation area two to three days before installation, ensuring that they are protected from the weather.
- Open the film so that the panels can acclimatise.
- Lay the substructure for the Qualirack TG reinforcement panel firmly, aligned and square.

- At the perimeter of the Qualirack wall, ensure a horizontal and vertical expansion joint of at least 2 mm per running metre panel. To this, place the panel on spacers; you should also use these at the sides and the top. Include an additional, intermediate expansion joint if the wall is longer than 10 m, e.g by deduplicating the supporting structure.
- The panels should be nailed or screwed.
 Choose the fastener according to the guidelines, or consult your trusted supplier or manufacturer.
- Place the panel transverse to the structure and screw it tight at the top and in the middle of the panel so that position is fixed.
- For small width panels (610 mm), it is recommended that there are at least three fastening points per support, and four for wider panels.



Technical guide: Qualirack Solidfix

1. General

Qualirack Solidfix reinforcement bands guarantee quick and easy installation thanks to a clean, premilled groove. The panel is recessed into the supporting structure, allowing the interior space to be used optimally. The P4 structural Qualirack Solidfix panels are suitable for use in dry conditions, service class 1. See section Qualirack TG – Application for further information on service class 1. Observe the storage and installation conditions in the Qualirack TG section.

2. Installation instructions







1 Fasten an L-profile to the back

- Cut an L-profile at the same height as the Qualirack Solidfix panel.
- Fasten the profile with a 1 mm overlap at the back and opposite side of the grooved side, in order to compensate for expansion.
- Use self-tapping screws (see Qualirack TG fasteners) and screw 10 mm from the top and bottom, with a minimum of three screws with a max. 250 mm distance between them.

2 Position the panel between the metal studs

- Hook the groove of the Qualirack Solidfix panel into the lip of the C-shaped metal stud profile.
- Align the panel with the next C-metal stud profile.
- Slide the panel up and down to the desired position.

3 Fasten the reinforcement panel in place.

- Fasten the L-profile with a self-tapping metal screw (13 mm) every 250 mm.
- Fasten the grooved side through the end of the C-metal stud profile with 25 mm self-tapping screws, fasten 10 mm from the top and bottom, with a minimum of three screws with a max. 250 mm distance between them.

Technical guide: Sanipan

1 General

Sanipan is a pre-drilled and moisture-resistant reinforcement panel suitable for use as a rear wall for wall-hung toilets in humid conditions, service class 2 (see Qualirack – Application for further information on service class 2). The finely sanded surface of Sanipan ensures that the surface can be finished easily with either paint or tiles.

2. Tile finishing instructions

User manual

Place the packaged panels in the installation area two to three days before installation, ensuring that they are protected from the weather. The conditions in the installation area must be matched to the conditions during end use in terms of temperature and humidity. Always ventilate sufficiently.

Preparation

- Before tiling Sanipan, a primer must be applied to the panels. Apply a liquid adhesive emulsion/primer with a brush. Press in thoroughly.
- Lay a row of tiles on the floor. Insert joint crosses between the tiles and determine the width of the tiles plus joint.
- Ensure that the remaining space is evenly distributed on the left and right. Never place a full tile in the corner; if there is a deviation in the wall you will have small fitting pieces or joints that are too large.
- Place the full left and full right tile against the wall and knock a vertical bar along the left and right tiles.
- Do the same horizontally, fasten a level horizontal slat for the upright tiles with joints.

Gluing the tiles

- Use a watertight paste tile adhesive that is suitable for wood.
- Spread out the tile adhesive with a notched trowel, no thicker than 3 mm. Work in 1 m² areas one at a time.
- Use sealing sleeves around pipe apertures and seal the corner and floor connection.
- Lay the tiles in the tile adhesive one by one with a slight rotating movement. Press them down firmly.
- Use joint crosses for the joints.
- Use a level to check each row of tiles while the adhesive is still soft; check with an aluminium bar if the surface is smooth.
- Wait until the adhesive has hardened before removing the bars.
- Then, cut the tiles to size with a tile cutter and lay them.

Joints

- Once the adhesive has cured (see the product description), which is usually after 24 hours, the joint crosses can be removed.
- Use a fine joint mortar for the joints.
- Apply the grout with a cloth or joint spatula with rubber crossways over the joints.
- Clean the surface with a moist cloth when the mortar is nearly dry. Now sweep over the joints crossways and rinse the cloth at regular intervals.

As we have no control over the correct finish in accordance with the specifications, UNILIN Panels accepts no responsibility for the method used for finishing, nor guarantees the finish itself.

Technical guide: Clicwall

1. Storage and installation conditions

Store the panels flat to prevent distortion.

- Allow the panels to acclimatise for at least 48 hours in the unopened packaging and at normal room temperature in the area in which they will be installed. Remove the packaging on the day of installation. After opening the packaging, ensure that the panels remain covered until the time of installation.
- Open the packaging and install the panels in the final phase of building works. Windows and external doors should be in place already to ensure that a controlled room temperature and humidity can be guaranteed.
- Keep the area and walls dry with a relative humidity of 50 - 60%, keep the room temperature between 15 and 20°C. Clicwall panels are not suitable for installation in damp and/or humid areas, in extremely dry areas or in areas with extremely high temperatures.
- Mount the wall panels on a vertically and horizontally smooth and dry substructure.
- Avoid using excessive water while cleaning Clicwall. Specifications for proper maintenance can always be found on the website.

2 Installation instructions

2.1 Installing the vapour barrier

TIP: When renovating, use a vapour barrier between the exterior wall and Clicwall, this way you risk on condensation behind the wall lining. Consult your architect or engineering office for correct installation. Ensure adequate ventilation in the room.

2.2 Installing the substructure

Install a substructure before mounting Clicwall. Position it securely, flat and perpendicular for a perfect end result. Select one of the four substructures (2.2.1 - 2.2.4) below. Combinations or alternatives are possible, please contact UNILIN, division panels.

Metal substructure



Wood substructure

2.2.1 METAL SUBSTRUCTURE 1



- Spacing: 600 mm.
- **Tip:** Standard metal stud 75 x 50 mm or 50 x 50 mm

2.2.2 WOODEN SUBSTRUCTURE (2)



- Spacing: 600 mm.
- Tip: Studs 92 x 45 mm

2.2.3 WOODEN GRID 3

- Horizontal spacing: 600 mm.
- Vertical spacing: 400 mm.
- **Tip:** Flat uprights 92 x 22 mm in combination with battens/ceiling laths 45 x 22 mm.

2.2.4 WOODEN STUDS STRAIGHT ONTO WALL 4

- Spacing: 400 mm.
- Tip: Place the battens/ceiling studs 45 x 22 mm directly on the wall. Always ensure that ventilation under the substructure is possible. Example with a filler batten.







Wooden studs straight onto wall

3. Installing Clicwall panels

3.1 Fastening systems

Tip: Fasten the Clicwall with screws 1, staples 2 or assembly kit 3. Combinations or alternatives are possible, please contact UNILIN, division panels. Position a screw, staple or polymer dot at least every 400 mm. The dotted line shows where you need to screw and/or staple. Ensure that the staples and/or screws are fully in the groove.

Do not apply heavy force to the joint during fastening, this prevents the panel from being pulled inwards. Be careful not to damage the groove when you fix Clicwall to the substrucScrews: SPAX or CSK screws 3.5 x 16 mm



Staples: min. width: 10 mm, min. length 15 mm.



Assembly kit: based on MS polymers



3.2 Expansion joint

Provide an expansion joint at the top and bottom of at least 6 mm. Finish the expansion joints with Clicwall accessories, as outlined above.

TIP: Temporarily slide a piece of Clicwall (10 mm) under the panel during installation.



Leave 1 mm per running meter at the sides of the wall.

TIP: Allow the longest wall to hide behind the shorter wall. This gives the longest wall more space in which to move and reduces the visible joint in the corner.



Also provide an extra expansion joint every 8 metres. Conceal the dilatation joints with the aid of the T-profile $(3000 \times 12 \times 10.5)$.

3.3 Positioning Clicwall panels

FIRST PANEL

Begin at the corner of the wall and position the first panel. This panel may have already been cut with a straight edge. Place the panel with the straight edge in the corner so that you can click the next panel into the groove. You should fasten the panels to the substructure every 400 mm in the corner as well. Are you using screws? Fasten the first panel in the corner, through the panel. Are you using an MS polymer assembly kit? Temporarily place a slat for clamping the first panel until it has dried.

SECOND PANEL

Position the second panel in a corner with respect to the wall and turn it towards the wall until it clicks into the first panel 1. Nowalso fasten the second panel via the groove to the substructure. Repeat this procedure for each panel until the wall is completely covered.



Finish with the previously cut-to-size end panel whose tongue side clicks into the adjoining panel. This way, the straight edge ends up in the corner. Cut the panel if necessary, ensuring the requisite clearance.

4. Finishing inside and outside corners

Choice of flexible corner profiles (4.1) in internal and external corners, joint sealing (4.2) in internal corners, an aluminium internal corner profile for internal corners (4.3) and aluminium external profiles for external corners (4.4).

4.1 Flexible corner profiles

Use a flexible profile (2750 mm) in a suitable design for the finishing of internal 1 and external corners 2. These flexible corner profiles are also available with a paint-able finishing film.

4.2 Sealing the joint

Leave the joint open in the internal corner, then fill with sealant and smooth out.

4.3 Aluminium internal corner profile

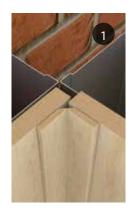
Choose aluminium internal corner profiles (2785 mm) for the most aesthetic finish for an internal corner 3. Apply MS polymers to one side of the profile and slide the profile into the expansion joint as shown in the figure. The MS polymers fix the profile to one panel, ensuring that there is still clearance in the corner

4.4 Aluminium external corner profile

Choose aluminium external corner profiles (2875 mm) for the most aesthetic finish of an outside corner 4. Carefully and smoothly finish the substructure for a perfect corner joint.

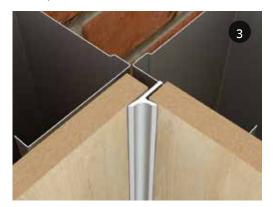
TIPS:

- Profiles may be obtained in alternative lengths on request.
- Wear gloves to avoid injuries from the sharp edge after mitre sawing.
- Acceptable tolerances: up to 1.5 mm
- Always cut parallel along the guide so that you have a straight clean cut.





Internal corner and external corner with flexible corner profile



Aluminium internal corner profile

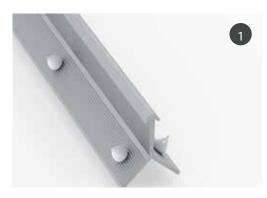


Aluminium external corner profile

Method for positioning the aluminium profile in the external corner and U-construction:

- Cut the attachment panels (left and right of the corner) at 45 degrees.
- Cut the aluminium profile to length (= the height of the panel minus the skirting board height).
- Apply thin dots of MS polymers on the left and right sides of the inner ribs (fixed to the substructure) and outer ribs (fixed to the panels) of the aluminium profile
- Slide the aluminium profile onto the tongued panel. Click the Clicwall panel with the attached aluminium profile into the previous panel and press it against the substructure 2.
- Place a piece of skirting board under the aluminium profile in order to position the aluminium profile at the correct height from the floor
- Leave a piece of skirting board under the aluminium profile and glue the aluminium profile with masking tape to the Clicwall until the MS polymer has cured. Remove the tape when the assembly kit has reached its full adhesion. See the specific data for each type of MS polymer/ assembly kit.
- Now slide the second mitre-cut panel, with the groove, onto the aluminium profile.

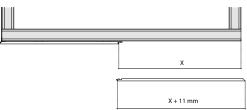
 Secure the aluminium profile with tape too until the MS polymers have cured 4.
- Press the second Clicwall panel against the metal stud. Ensure that the panel is positioned perpendicular, then fix to the substructure.
- For a single external corner, you can construct the rest of the wall on top.
- For a U-construction, measure the distance between the next corner and the shoulder (net size) of the positioned Clicwall panel exactly = X.
- Add 11 mm to this. Cut the next panel to X
 + 11 mm for a perfect external corner.
- Then repeat the corner bonding procedure.











5. Incorporating windows and doors

You can incorporate windows and doors by applying the standard method or you may opt for a finish that uses Clicwall panels. Consider a result as shown in the illustrations.

5.1 Finishing with Clicwall

Cut strips from a Clicwall panel to use as the finishing for the window or door opening. Let the vertical Clicwall wall panel come up as far as the cut strips. Use flexibles 1 or aluminium L-profiles (min. 10 x 15 x 1.5) 2 as a finish.

For a more aesthetic finish, doors and windows can also be incorporated with the aid of the aluminium Unilin profile 3. In this case, follow the same approach as for external corners and U-constructions (see 4.4).

5.2 Finishing with MDF

If you choose to use MDF, the Clicwall wall panel does not come up as far as the MDF frame. Use window or door frames as a finish or opt for aluminium profiles with a minimum width according to the thickness of the MDF used.



Window finish with flexible corner profile



Window finish with aluminium L-profile



Window finish with aluminium Unilin profile

6. Instructions for finishing with Clicwall Paint

Clean and dry Clicwall Paint so that it is free of grease and dust before finishing. Thanks to the paint-bearing film, you can finish with paint, non-woven wallpaper or digital print.

4.1 Wallpapering

Use wallpaper glue or vinyl glue for wallpaper edges and non-absorbent substrates before papering the Clicwall.

4.2 Painting

- Always consult the usage and safety instructions for the products and materials used
- Position the Clicwall perfectly flat according to our installation instructions so that the seams cannot be seen or felt.
- Use solvent-based paint: first apply one coat of insulating acrylic primer and one or two finishing layers afterwards, depending on the intended finish.

Apply the primer – mat or satin – with a roller or brush and allow it to dry for 24 hours.

Explanation: The finishing layers are made with a water-soluble acrylate dispersion. They must be low-stress and non-porous with a cover of at least Class 2 in accordance with DIN EN 13300 and a washability Class 1 in accordance with DIN EN 13300. Allow a drying time of 24 hours between the two finishing layers.

4.3 Digital printing

If you'd like to use a wall finish with your own design, you can print the Clicwall Paint with a digital print of your choice. You can request contact details for providers from UNILIN, division panels.

UNILIN, division panels

UNILIN, division panels, part of the UNILIN group, has been supplying innovative wood solutions for construction and interior projects since 1960. Our chipboard, MDF, HDF, HPL and melamine boards find their way into commercial outlets in wood and building materials, industrial processors and DIY chains worldwide.

We develop solutions tailored to your needs with creativity as our engine and innovation as our driving force. In addition, we continuously invest in product design and new technologies. That makes us a leading international player today, and a lasting partner in our industry.

Our 1,300 employees give their best every day in our production facilities in Belgium and France. Together we produce 2.1 million m³ of panel material every year.

