

Concrete Cover

Facade system from Komproment
Installation / Technical Data





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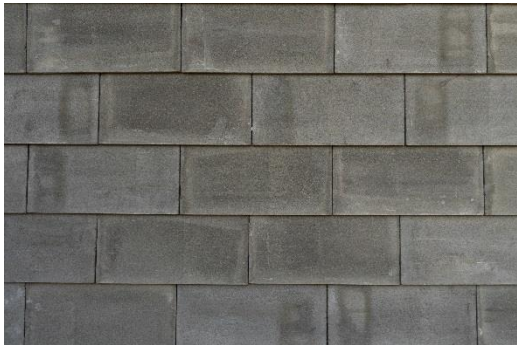
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Concrete Cover from Komproment

The Concrete Cover facade comes in 4 beautiful Nordic-inspired colours.

The cement clinkers are simple to adjust and mount on a simple inorganic mounting system consisting of horizontal aluminium laths and stainless steel mounting clips.

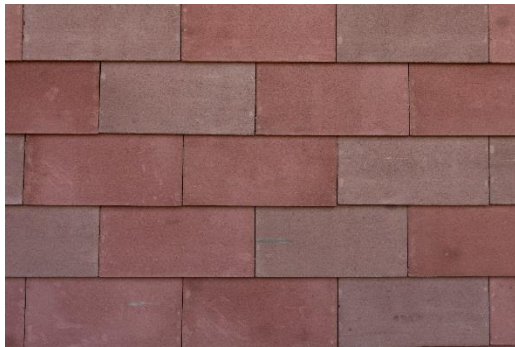
Colours and surfaces



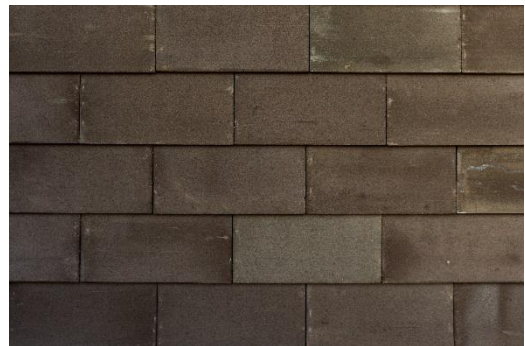
Standard colour: Concrete
Item no.: 46-1-1



Special colour: Anthracite mix
Item no.: 46-1-40 (2% pigment)
Item no.: 46-1-41 (3% pigment)
Item no.: 46-1-42 (5% pigment)



Special colour: Red mix
Item no.: 46-1-20 (2% pigment)
Item no.: 46-1-21 (3% pigment)
Item no.: 46-1-22 (5% pigment)



Special colour: Brown mix
Item no.: 46-1-30 (2% pigment)
Item no.: 46-1-31 (3% pigment)
Item no.: 46-1-32 (5% pigment)

Concrete is a natural product, and variations in colour and composition can occur. Pictures and product samples should therefore always be considered for guidance only.

Cement facades will always have small or large areas with lime bloom. This is a natural part of the concrete design, but it is typically limited/lessened over time and has no influence on the product's lifetime.

Component overview

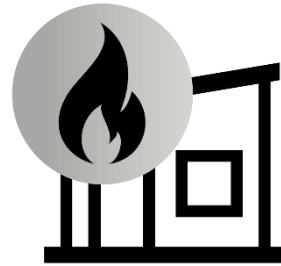
Product No.:	Product Information:	Application:
53-2-1844	Aluminium batten Alloy: EN AW 6060 T6 /AMgSi Length: 3000 mm	Horizontal aluminium batten.
53-1-34	Mounting clips Material: Stainless – A2	Mounting clips for mounting on aluminium lath. Always minimum 2 pcs. per concrete element
	Starting/top lath Material: Aluminium Length: 3000 mm	Used as starting lath and as top lath.
53-1-272	Special screw with drilling tip 4.8 x 20 mm, SPH2 Stainless – A2	Screw for securing aluminium lath in aluminium batten. 2 pcs. per intersection. (lath/batten)
53-2-1732	Special screw with drilling tip 4.8 x 28 mm, SPH2 Stainless – A2	Screw for fastening upper row of concrete elements and upper row under windows etc.
53-1-255	Aluminium spacer Alloy: EN AW 6060 T6 /AMgSi Length: 3000 mm	Vertical aluminium spacer /wash batten. Ensures free passage behind the facade (for ventilation and water).
53-1-24	Heat-treated spacer Material: Heat-treated wood Length: Saw falling lengths	Vertical wood spacer / wash batten. Ensures free passage behind the facade (for ventilation and water).
53-1-30	Ventilated mouse guard Material: Perforated aluminium Length: 2000 mm	Mounted onto the spacer along the foundations. Protects against entry of pests behind the facade.
33-5	Komproment façade adhesive Quantity: 290 ml cartridge Colour: Black	Used where extra securing of the concrete elements is needed. Always ensure a clean and dry surface when gluing concrete elements together.
53-3-14	Ring shank nails 2.8 x 65 mm Material: A4 stainless	Nails for securing aluminium battens in wooden spacers with an underlying wooden construction. Min. 2 nails per crossing.
53-1-26	Framing nails (ring nails) 2.8 x 80 mm Material: A4 stainless	Nails for securing wood/aluminium spacers into an underlying wooden construction. Nail every 220 mm.

*Flashing shown in our drawings and descriptions are suggestions/examples and are not stocked goods.

Documentation

Fire

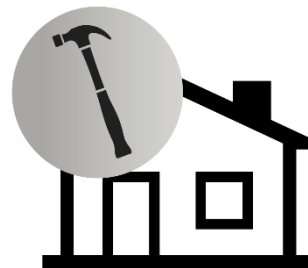
Always refer to the latest/currently applicable version of the Building Regulations.



Installation

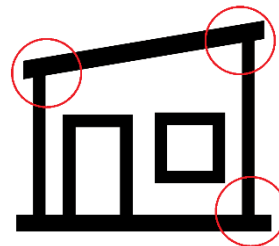
Installation must always be carried out in accordance with the latest version of the installation instructions and the applicable detail drawings. The latest version can be found at www.komproment.dk.

Also, see the mounting film on our website www.komproment.dk.



Detail solutions

Always refer to the latest version of the "Concrete Cover Detail folder". The latest version can be found at www.komproment.dk. For DWG format, please contact Komproment at teknik@komproment.dk.



Maintenance

A correctly assembled Concrete Cover facade from Komproment normally requires little or no maintenance. However, we still recommend an inspection of the facade, as it can be affected by external factors. Find maintenance guidelines at www.komproment.dk.



Receiving, Storing and Handling

Receiving procedure

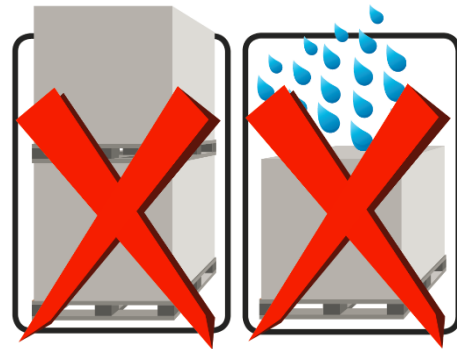
An acceptance control must be performed immediately after the goods have arrived at the building site. If there are no objections to the consignment note before it is signed, the goods are accepted in the condition they arrive in and in the quantity stated on the enclosed packing slip.



Storing and handling

All components should be kept dry and protected against theft at the building site.

Pallets must always be stored on a level surface and must not be stacked.



Lime deposits

Concrete facades will always have small or large areas with lime bloom. This is a natural part of the concrete design, but it typically shrinks/lessens over time and has no influence on the product's lifetime.



Disposal after use

Concrete Cover is designed to be taken apart and can be easily disassembled and reused. See the accessories overview on page 4 to carry out the correct sorting of waste.



Mounting principles

Facade

Concrete Cover is designed for use on facades. Concrete Cover is mounted on aluminium laths as a ventilated rain screen according to the two-step principle.

Flatness tolerances for the underlying structure

Always check the underlying structure before mounting spacers and battens. Straightness requirement on the underlying structure, vertical and horizontal, tolerance: +/- 3 mm, measured with straightedge over 2 m.

Attachments

Attachment to the bearing construction is not a part of this manual and must always be documented and dimensioned to the project at hand, according to the applicable norms and legislation.

Mounting the concrete elements

The concrete elements MUST be mixed from multiple pallets to achieve the desired play of colours. (Min. 4–6 pallets)
All elements must be mounted on the aluminium lath using at least 2 clips.

Recommended bond: Wild bond.

Machining the concrete elements

To ensure the best results, it is important to have the right equipment for fitting the concrete elements. We always recommend that the concrete elements are cut using a wet cutter with a diamond blade.

When drilling holes in the concrete, use a stone drill or a diamond drill. Do not use an impact drill!

Important! Immediately remove dust from drilling and cutting to prevent it from “burning” into the surface.

Safety

As with all building materials, the safety precautions for the machining of products from Komproment are subject to the provisions in the Working Environment Act.

In connection with machining (cutting, sanding, drilling), the concrete elements can produce dust.

It is recommended to:

- Avoid breathing in the dust by using a tool with a dust filter
- Avoid contact with eyes and skin by wearing personal protective equipment
- Avoid breathing in dust by wearing personal protective equipment
- Ensure adequate ventilation at the workplace

Details

The drawings are not drawn to scale and are shown as principles. All structures must be designed for the individual buildings. Komproment cannot be held responsible for project design or for project details, which are the responsibility of the architect and/or consulting engineer supervising the project at all times.

The dimensions provided are for guidance and must be checked at the building site.

Tightness of the rain screen

Concrete Cover is categorised as an “open rain screen” according to Byg-Erfa experience sheet (21) 171127.

Concrete Cover

Concrete Cover is a facade system of concrete elements and an inorganic substructure.

The facade system consists of the following:

- Concrete elements – 12.21 pcs./m²
- Horizontal aluminium laths – 5.13 m/m² (lath spacing 195 mm)
- Mounting clips – 24.42 pcs./m² (2 pcs. per cement clinker)

The rain screen must be ventilated with the help of vertical battens made of wood or aluminium.

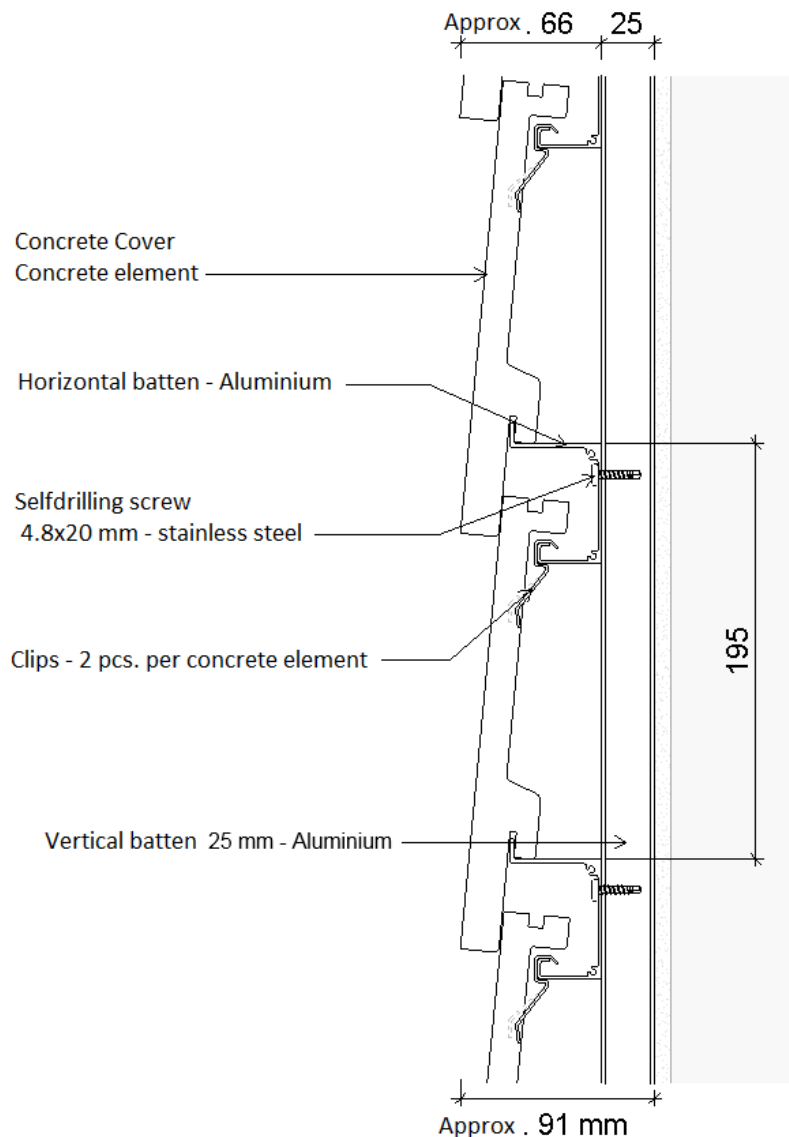
Recommended bonding: Wild bond

Batten distance: 195 mm

Facade depth: approx. 91 mm (including 25 mm battens) as illustrated below.

All concrete elements must be mounted with min. 2 clips.

The top row of concrete elements and other finishing elements, under windows etc. are screwed into the end lath.



Principal details

Spacers

The wooden spacers from Komproment are heat-treated. The heat treatment is a chemical-free wood protection that improves the wood's properties in terms of decay and weather resistance.

The aluminium spacer from Komproment is a 100% inorganic spacer made from seawater-resistant aluminium.

The system laths must always be mounted on 25 mm battens, to ensure sufficient ventilation behind the façade flashing.

The spacers are mounted vertically onto the facade, max. C/C 600 mm.

Start at foundation

The first lath is placed so the concrete elements have the desired distance to the terrain. (The facade covering should be at a suitable distance from the terrain. Recommended = min. 150 mm).

Place a starting profile, which balances the thickness of the concrete elements 162 mm below the first lath, measured from top edge to top edge.

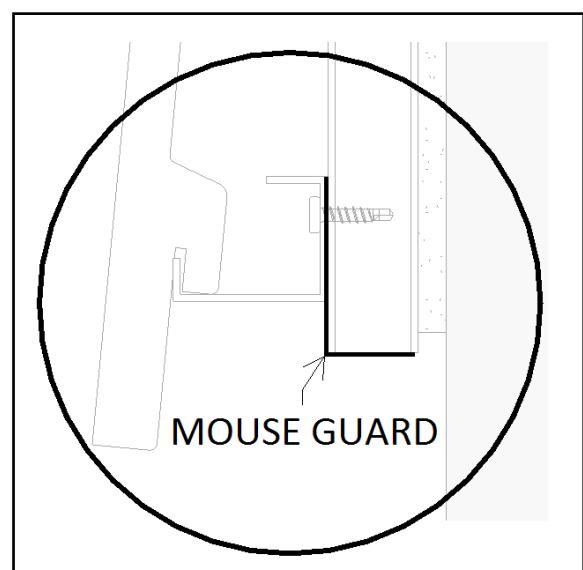
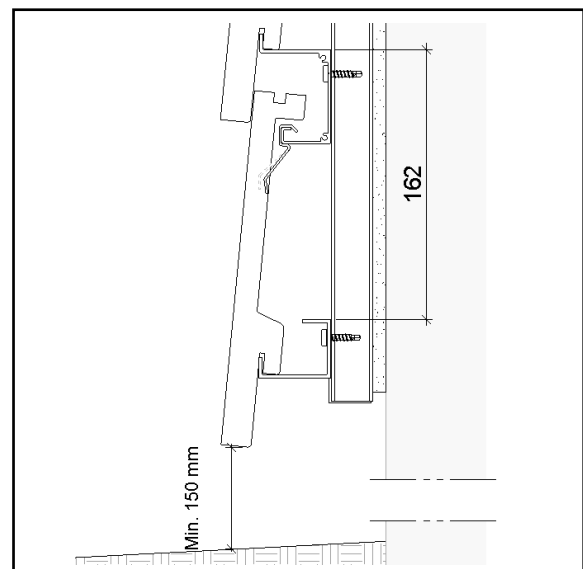
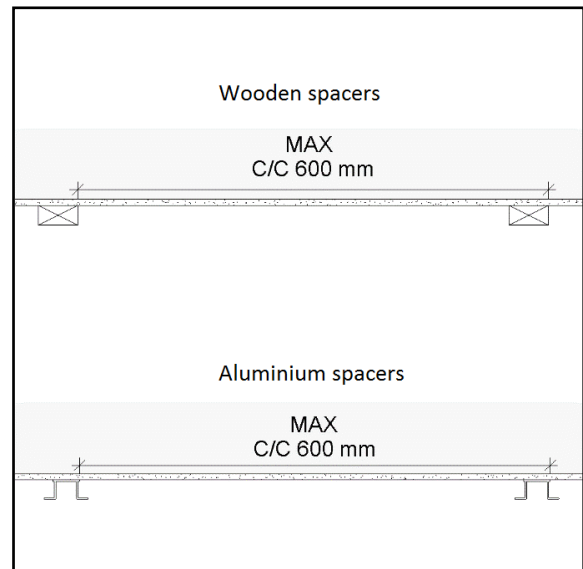
Under the starting lath, place the ventilated mouse guard profile, which serves to prevent pests from penetrating the facade.

Mouse guard

The mouse guard profile is designed to prevent pests from penetrating the facade.

It is important to mount the mouse guard solidly against or under the starting lath, to ensure that pests cannot penetrate the facade.

The mouse guard is made of perforated aluminium, which also ensures ventilation of the facade.



Outside corners

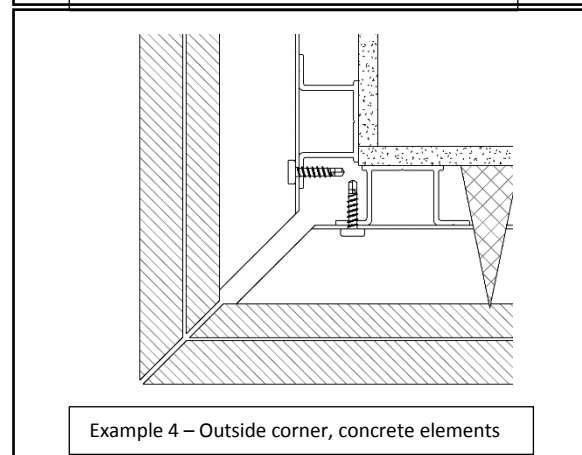
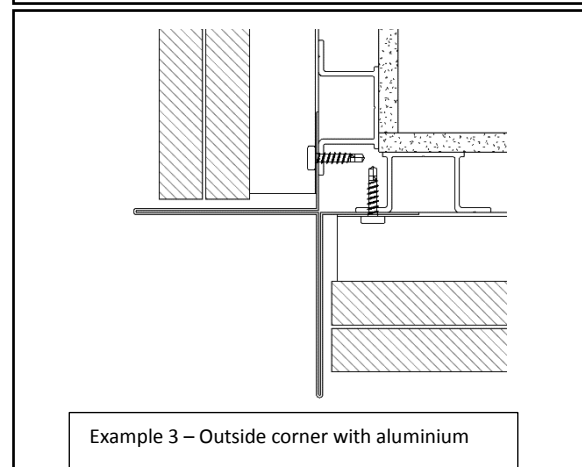
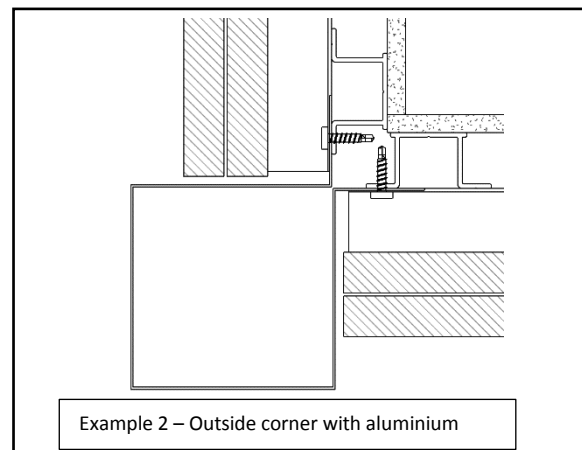
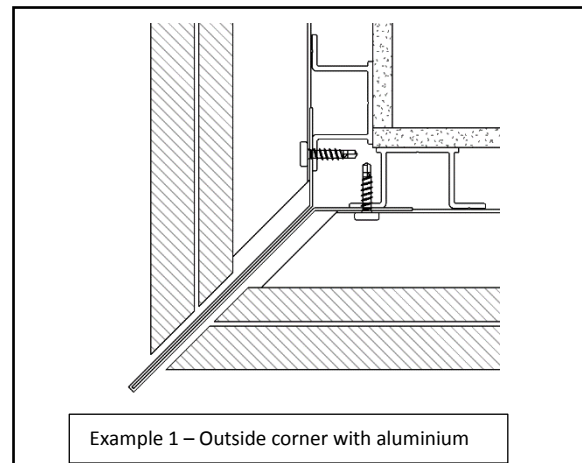
Aluminium flashings for outside corners are mounted on the spacers.

Nail or screw the flashings in place every 220 mm along the full length. The concrete elements and aluminium battens are fitted/mounted with approx. 5 mm distance to the aluminium flashing.

Example 1: Concrete elements are bevelled in toward the flashing.

Examples 2 and 3: Concrete elements are cut straight in toward the flashing.

Example 4: The concrete elements are bevelled together to the outside corner, without the use of aluminium flashing. It is ideal to make templates, so all concrete elements are cut with the correct bevel.



Picture of example 4, corner without aluminium flashing

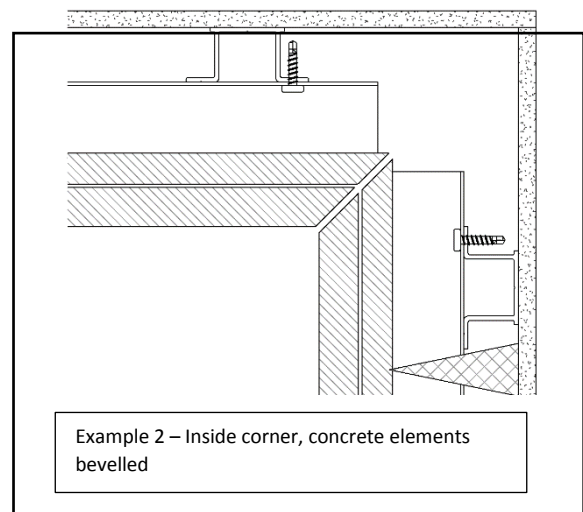
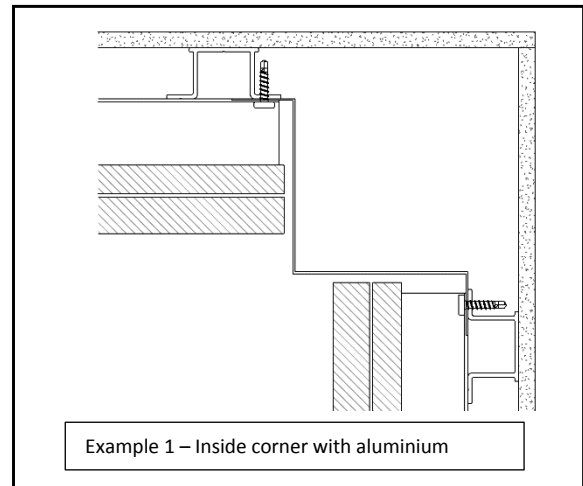
Inside corners

Aluminium flashings for inside corners are mounted on the spacers.

Nail or screw the flashings in place every 220 mm along the full length. Concrete elements and aluminium battens are fitted/mounted with approx. 5 mm distance to the aluminium flashings.

Example 1: Concrete elements are cut straight in toward the flashing.

Example 2: Concrete elements are bevelled together in the inside corners, without the use of aluminium flashing. It is a good idea to make profiles, so all concrete elements are cut with the correct bevel.

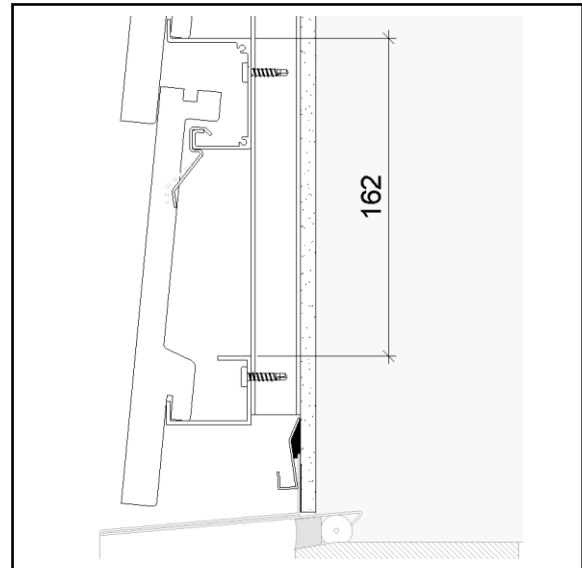


Finishing with concrete elements above window

Above the window, mount a starting lath, so the facade covering has min. 10 mm distance to the window flashing. Cut the concrete elements where necessary.

With whole elements, place a starting profile, which balances the thickness of the concrete elements 162 mm below the horizontal standard lath, measured from top edge to top edge.

The starting profile is positioned project-specific if it does not fit with whole concrete elements. The starting profile can be flipped/turned, so it fits better with smaller concrete elements. See solutions in the detail folder.

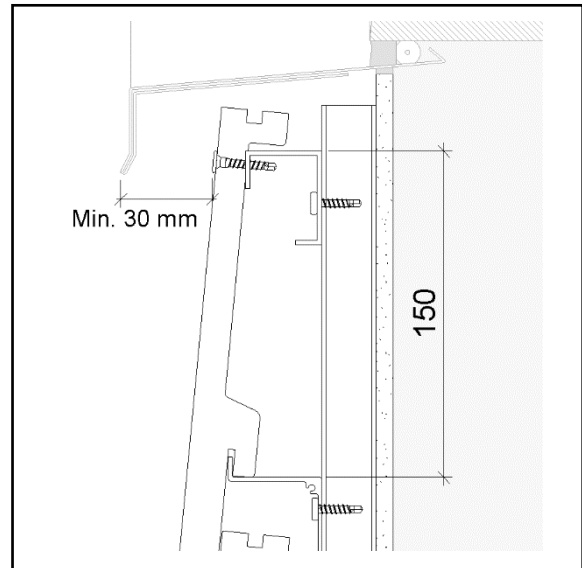


Finishing with concrete elements below window

General: Below the window, finish concrete elements/laths/battens with min. 10 mm distance to the external sill profile. Furthermore, the external sill profile must extend 30 mm beyond the facade covering.

For finishing with whole concrete elements under the window, place the finishing lath 150 mm over the standard lath. Drill one \varnothing 6 mm hole in the concrete element and screw it tightly to the finishing lath with one self-drilling 4.8 x 28 mm screw per element.

When finishing with a fitted concrete element, place the finishing lath and space it out to ensure the proper angle of the concrete element.

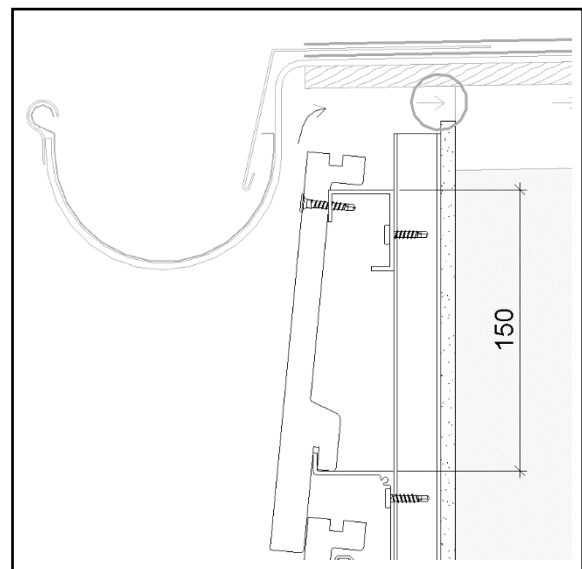


Finishing at the top (eaves/gable etc.)

General: Concrete elements/laths/battens are finished with min. 10 mm distance to flashing at the top. Furthermore, ventilation of the facade and, where relevant, roof construction must be ensured.

For finishing with whole concrete elements, place the finishing lath 150 mm over the standard lath. Drill one \varnothing 6 mm hole in the concrete element and screw it tightly to the finishing lath with one self-drilling 4.8 x 28 mm screw per element.

When finishing with a fitted concrete element, place the finishing lath and space it out to ensure the proper angle of the concrete element.



Abutting joints of aluminium profiles

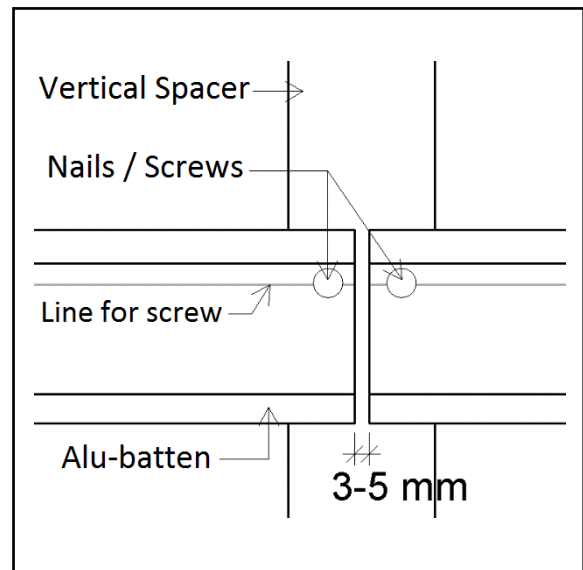
Horizontal aluminium battens

The horizontal aluminium battens are always joined over a spacer, keeping a min. 3-5 mm distance between the profiles for aluminium tolerance.

Fasten the aluminium batten using nails/screws at the top of the batten in the factory-made threads, at all intersections of the battens (max. C/C 600 mm).

At edges (corners, sides of windows etc.) the aluminium lath may not be corbelled out more than 250 mm over the side of the batten.

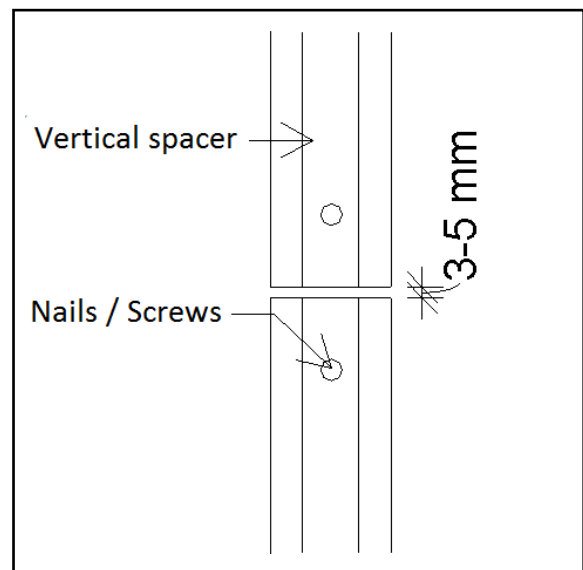
Aluminium battens are always finished with min. 10 mm distance to flashing etc.



Vertical aluminium spacers

The vertical aluminium spacers are always joined with min. 3-5 mm distance between the spacers for aluminium tolerance.

Aluminium spacers are always finished with min. 10 mm distance to flashing etc.



Technical data

Technical data	
Product name	Concrete Cover
Colours	1 standard colour – 3 special colours; see page 4.
Surface	Concrete
Quantity per pallet	Contact Komproment
Weight per pallet	Contact Komproment
Dimensions	Concrete Cover: 215 x 420 x 18 mm
Tolerance cement clinker	As per data sheet, found at www.komproment.dk
Lath distance	195 mm
Consumption/m2	12.21 pcs./m2 – at lath distance of 165 mm
Weight per pce.	3480 g ± 348 g
Weight per m2	47 kg/m2 ± 4.25 kg (cement clinker, horizontal aluminium laths, clips)
Weight aluminium lath	0.56 kg/m
Water absorption	8 % (EN1338)
Mounting	Concrete elements MUST be mixed from multiple pallets to achieve the desired play of colours. (Min. 4–6 pallets) All elements must be mounted on the aluminium lath with at least 2 clips. Min. element width when fitted = 100 mm
Recommended bond	Wild bond
Note!	Concrete facades will always have small or large areas with lime bloom. This is a natural part of the concrete design, but it typically shrinks/lessens over time and has no influence on the product's lifetime.

General information

Technical support

If you need advice and/or technical support, you can always count on our assistance when you need it.

Komproment can help with:

- Getting started on installation at the outset of larger projects
- Input for the documentation
- Other problems/issues.

For technical support, contact us by calling:

+45 96520710 or by email to

teknik@Komproment.dk

Opening hours, Monday to Thursday:

8:00-16:00 and Friday: 8:00-15:30.

Sales

For general information and advice on a specific project, contact our sales team on tel: +45 96520710 or by email to salg@komproment.dk

Opening hours: Monday to Thursday: 8:00-16:00 and Friday: 8:00-15:30.

Sales and delivery terms and conditions

In addition, always refer to our sales and delivery terms and conditions, which can be found on our website – www.komproment.dk