

Dumaclin

EN

No warranty if these instructions are not followed

The installation is similar for the 3 different types of exterior wall cladding **T08** (185 cm) – **T09** (170 cm) – **T10** (150 cm)



Click system exterior wall cladding

APPLICATION

Dumaclin has been designed for the covering of insulated and ventilated façades, on gables and sections of façades for newbuild and renovation projects.

Dumaclin may be applied to Class I (*) buildings at an altitude of up to 1000m and on all façade structures whether concrete, stone or wood framework, flat and vertical, stable and in good condition, whether insulated or otherwise, of a height of max. 8m – max. 2 floors (1)- and at a distance of 4m vis-à-vis the limits of the plot. (neighbouring façade). Dark shades – except for white/cream/light grey – are not recommended on south-facing façades.

(*) Decree of 22.10.2010 and 19.07.2011

We recommend that you avoid a **Dumaclin** installation at an ambient temperature of below 0°C and above 30°C.



STORAGE and TRANSPORT

Dumaclin should be stored in a dry, well ventilated area away from rain and direct UV rays, flat or on a support inter-axis of max. 60 cm. Transport, handling and storage, always horizontal.

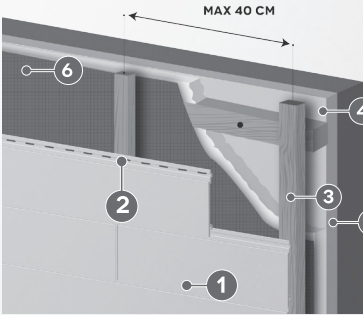
TOOLS



SECTION



Dumaclin is worked like wood using traditional tools. Hand saw with small teeth or circular saw with hollow teeth of type sharp flat gap of 10 mm. Electric tools will be connected to an appropriate vacuum cleaner or failing this an anti-dust mask of type FFP2 (EN149 :2001) is recommended. Protect your eyes using safety goggles during installation.



EXTERIOR WALL CLADDING CONCEPT

- 1 **Dumaclin cladding**
- 2 Fixing screw 3.5 x 35 authentic STAINLESS STEEL A2
- 3 Support lathing min. 28 x 45 mm, spacing 40 cm(*).
We advise to put a ventilation profile onto the support lathing.
- 4 Primary rafter structure 50 x 80 mm minimum flush with the thermal insulation
- 5 Insulation layer, thickness in accordance with thermal requirements
- 6 Rain barrier membrane

(*) see structure advice below

STRUCTURE

Dumaclin boarding is always installed on a primary rafter structure that interlocks with the load bearing structure via fittings as a function of the quality of the structure and of wind exposure.

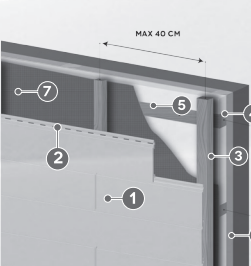
- Implementation in accordance with the Specifications of CSTB 3316-V2
- Wood in accordance with standard NF EN 13183 and Class C18 – NF EN 338
- Individual sections chosen in accordance with standard NF EN 13183-2
- Wood given flame-retardant treatment with a max. degree of humidity of 18%
- The framework must be fixed in place using anchors and screws that are adapted to the load bearing structure and in accordance with CSTB 1661 – V2
- The support lathing – final support of **Dumaclin** boarding – must be fixed to the primary structure in the direction perpendicular to the direction of the boards and fixed onto each intersection using two A2 stainless steel wood screws.
- The finished surface of support lathing must be flat with a gap of max. 2mm between adjacent rafters or 10 mm under a ruler of 2m (*)

The inter-axes of the primary structure's rafters are limited to max. 60 cm. The support lathing inter-axis is max. 40 cm in case of light shades – the shades white (852)/ cream (840)/ Light grey (841) – and limited to 30 cm for all other shades.

INSULATION

Thermal Regulations 2012 are to be checked. Apply insulation in rigid panels classed in the «non-hydrophilic» category according to DTU 20.1 and in fire classification M0 or polyurethane panels with fire classification M1, in accordance with specifications CSTB 3316-V2. Insulator with ACERMI certification. A rain barrier is recommended and in any case compulsory in the event of the application of **Dumaclin** on a wooden framework – see DTU 31.2.

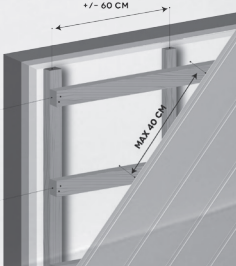
APPLICATION OPTIONS



Horizontal application

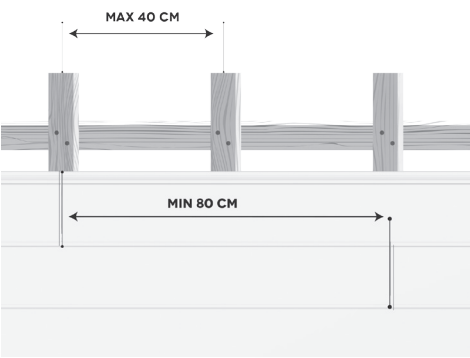


Vertical application

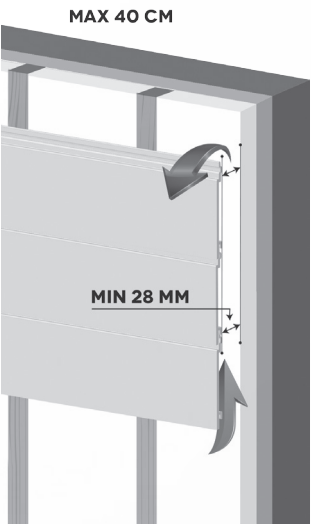


Vertical/ diagonal application

DISTRIBUTION OF BOARDING



VENTILATION



An air space must be provided between the bare exterior of the façade or insulation and the rear of the **Dumaclin** cladding of at least 28 mm – i.e. support lathing with a thickness of 28mm – if light shades – white (852) /cream (840) / light grey (841) – and at least 38 mm – i.e. lathing of 38 mm – for all other shades.

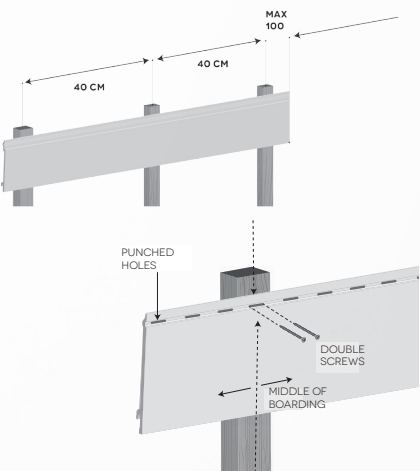
Check that the bottom and the top of each **Dumaclin** façade surface and the top and bottom of the openings is kept unobstructed – at least 100cm²/m but at the same time protected by the hole of an anti-rodent ventilation grid.

Support lathing of 38mm is in any event required in case of application of insulation with an aluminium skin.



A poorly ventilated façade can cause substantial dilation phenomena, which can result in irrevocable warping of the **Dumaclin** boarding.

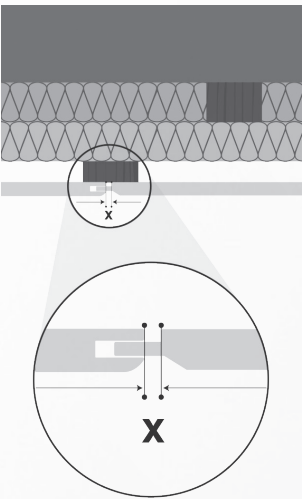
FIXATION OF BOARDING



The **Dumaclin** boarding is fixed fully invisibly to each support lathing using only authentic A2 stainless steel flat head screws 8mm – 3.5 mm x 35 mm. always in the centre of the pre-perforated hole except for the fixing in the middle of the boarding using 2 screws.

Do not tighten the screws for a free movement of the boarding.

BOARDING ABUTMENT



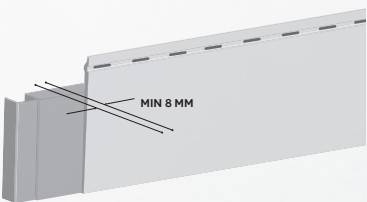
Dumaclin boarding has unique patented coupling that offers a change in dimensions due to the fluctuation in temperature for the boarding installed. The abutment best takes place at the level of a lathing. The coupling is separated by at least 80 cm in a staggered arrangement. In the event of abutment off-set to the lathing, a gap of max. 10 cm is acceptable.

The butt joint is as a function of the ambient temperature during assembly

3mm if ambient temperature = 20°
8 mm if ambient temperature = 5° C.



DILATION



Leave a spacing of 8 mm between the far end of the boarding and the stop at the interior of the installed multifunction cover rails.

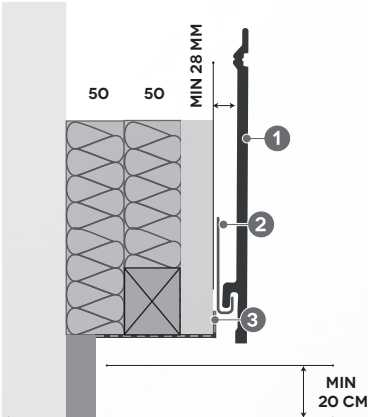
PRECAUTIONS

Dumaclin cladding is not considered as structural elements, so be sure to check your structure before installing your **Dumaclin** cladding. Do not install **Dumaclin** cladding next to a heat source and keep a distance of at least 30mm around a chimney. We advise you not to install **Dumaclin** cladding below 0°C and above 30°C

The (re)painting of cladding is not recommended.

FINISHING DETAILS

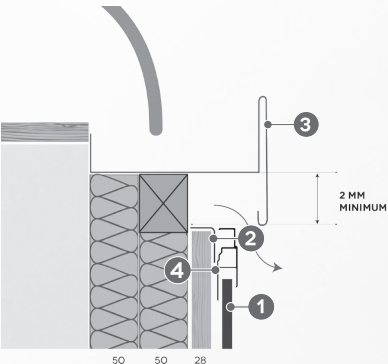
Lower finish with starting profile



- 1 **Dumaclin** cladding
- 2 Aluminium starting profile
- 3 Anti-rodent ventilation grid (except for **Dumaclin** sales plan)

Protect the air space using a ventilation grid. Assembly begins at the bottom of the façade via an adapted aluminium profile. Install perfectly at the horizontal level. Fixing every 30 cm using stainless steel countersunk screws. Application of the first board with its hook in the starting profile.

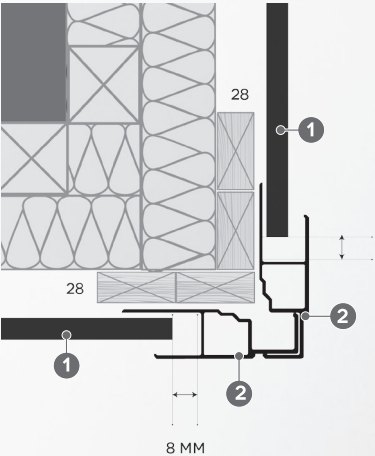
CONNECTION OF THE ROOF



- 1 **Dumaclin** cladding
- 2 Anti-rodent ventilation bracket
- 3 Zinc roof finish profile (outside the **Dumaclin** offer)
- 4 MULTI profile adapted to the shade of **Dumaclin** cladding

The wood frame and the insulation ends at the lower end of the roof lintels. A roof finishing profile (outside the **Dumaclin** offer) must be installed after positioning the ventilation bracket. A MULTI profile is positioned using a space of 10 mm vis-à-vis the galvanised roof finishing profile.

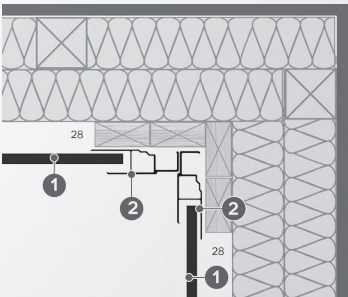
OUTER ANGLE



- 1 **Dumaclin** cladding
- 2 MULTI profile adapted to shade of **Dumaclin** cladding

Two coupled MULTI profiles will have to be positioned on the angle and should each be fixed to the structure every 30 cm using stainless steel screws.

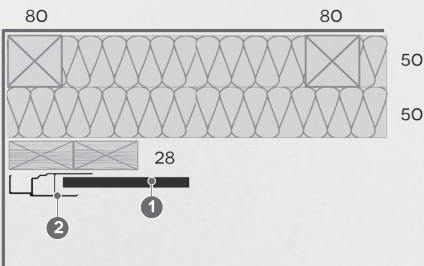
INTERNAL ANGLE



- 1 **Dumaclin** cladding
- 2 MULTI profile adapted to the shade of **Dumaclin** cladding

Two MULTI profiles will be positioned on the angle and fixed to the structure every 30 cm using stainless steel screws.

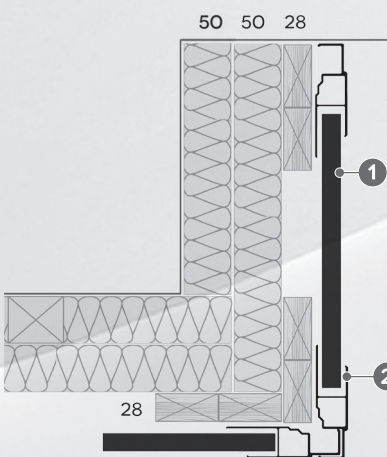
LATERAL FINISHING STOP



- 1 **Dumaclin** cladding
- 2 MULTI profile adapted to the shade of **Dumaclin** cladding

Each far end of the cladding surface must be fitted with a MULTI profile

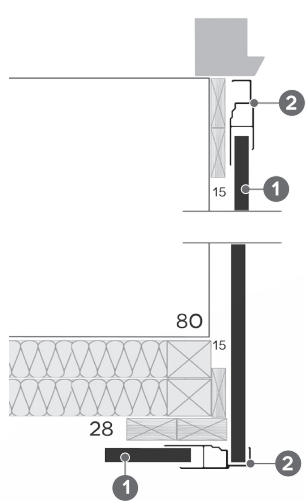
LATERAL FINISH WITH RETURN



- 1 **Dumaclin** cladding
- 2 MULTI profile adapted to the shade of **Dumaclin** cladding

A single cladded façade calls for a special finish in order to close the sides. Install two MULTI profiles and a MULTI profile on the outer angle, fixed every 30 cm using stainless steel screws. Finished using the ends of boards between MULTI profiles on the return.

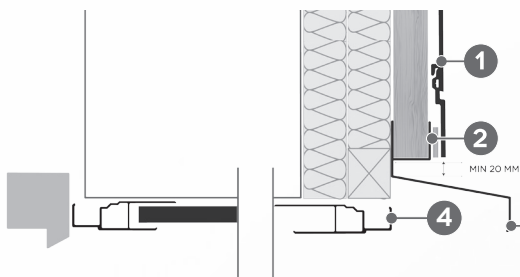
WINDOW FRAME FINISH – LATERAL SIDE



- 1 **Dumaclin cladding**
- 2 MULTI profile adapted to the shade of **Dumaclin** cladding
- 3 Aluminium threshold
- 4 Support lathing (reduced)

One MULTI profile should be placed on each strut of the window frame and should be screwed onto the support lathing (probably with a reduced thickness). Stop the MULTI profiles flush with the low level of the lintel. Make sure that the hook of the MULTI fully passes the alignment of the lathing installed on the window frame returns. Install the boarding ends in the return of the bare window frame against the chassis or using a MULTI profile.

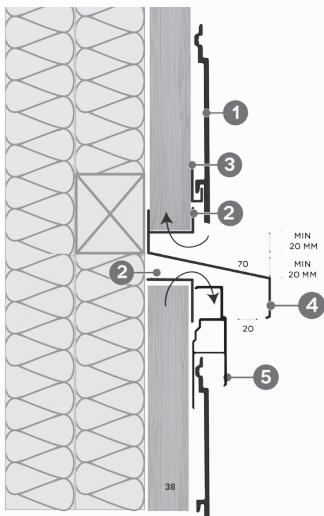
WINDOW FRAME FINISH – LINTEL POSITION



- 1 **Dumaclin cladding**
- 2 Anti-rodent ventilation grid
- 3 Drip strip profile
- 4 MULTI profile adapted to the shade of cladding **Dumaclin**

The rafters and support lathing should end flush with the existing lintel. An anti-rodent profile should be installed on the low parts of the support lathing. A drip strip profile should be positioned flush with the bottom of the support lathing, with a length that exceeds the vertical MULTI profiles already installed. Finish the interior of the frame using the MULTI profiles installed on the wooden support of reduced thickness. The direct boarding above the lintel risks an adjustment in height as well as insertions for the passage of the drip strip profile.

HORIZONTAL CONNECTION BETWEEN FLOORS



- 1 **Dumaclin cladding**
- 2 Anti-rodent ventilation grid
- 3 ALU starting profile
- 4 Drip strip profile
- 5 MULTI profile adapted to **Dumaclin** cladding shade

We recommend a break in the façade covering between floors. The support lathing should be separated by a distance of 20mm to ensure the perfect ventilation of the upper floor surface. An aluminium weatherboard profile should be installed before continuing to install **Dumaclin** cladding on the upper floor surface. Continue to apply the boarding on the upper floor surface via clipping in the recess of the weatherboard profile.

MAINTENANCE



Dumaclin cladding keeps its appearance over time without maintenance, but in some regions – due to the atmosphere or to pollution – a minimum amount of maintenance may be required. Easy to clean using water and a soft detergent, followed by a rinse with clean water. Detergents with a base of ammonia or chlorine such as bleach should not be used. In the event of heavy soiling, rinsing is recommended using a high-pressure cleaner – max. 100 bar with a 50 cm nozzle for high-pressure cleaning. It is not recommended to apply abrasive or corrosive products and ketonic or aromatic solvents such as benzene, acetone, kerosene, white spirit or similar.

TIPS

Make your selection of **Dumaclin** shade always from a **Dumaclin** palette of recent standard shades available from your **Dumaclin** distributor, as the shades in the catalogue are never 100% compliant. Your project should be ordered in one go as a slight difference in colour may occur if there are a number of different production batches. Try to use packets from the same production batch to avoid any possible variations between batches. Any possible differences in shade or imperfections should be observed before the installation and should be reported to us immediately.

CUSTOMER SERVICE

For a quote, to place an order or for documentation or a sample, please contact our technical department

Tel 00 32 50 72 90 11
Email: info@dumaplast.be
Our office is open from 9am to 12pm and from 2pm to 5pm
TECHNICAL DEPARTMENT
We are at your disposal with a technical department that is able to answer your questions on products, application methods and the layout of your projects.

Dumaclin is a private label created by the KREAFIN Group

The properties of the products extruded by API EXTRUSION SA represent the mean values obtained using generally recognised test methods that are subject to normal manufacturing tolerances. API EXTRUSION reserves the right to change product characteristics without prior notice and the right to make any changes it deems necessary for the improvement of manufacturing processes at any time. The information, technical details and application instructions in this brochure – along with those in our other communications – are based on our best information and knowledge, in accordance with the intended application. Our recommendations for use should be checked for their suitability and compliance with the needs, specifications and any applicable laws and regulations. For the applications or other conditions for use of our products, please contact our Façades Technical Department. Check with our technical department whether you have the latest version of our documentation or application instructions.