

Continuous support systems

ADEKA



Museum, Morez (France) - Architect(s): Reichardt-Ferreux - Contractor(s): Nouveau

- Aesthetic aspect of diamond shaped elements, ADEKA offers long term waterproofing and perfect architectural harmony
- Based on an innovative installation concept using an integrated locking key
- Very easy and fast installation
- Range of pre-formed accessories for standard flashing.

A Umicore brand



The sole purpose of this document is to describe the main technical characteristics of VM ZINC® products manufactured by Umicore.

The specification and installation of these products are the sole responsibility of the architects and building professionals who must ensure these products are used in a way suited to the end purpose of the construction and that they are compatible with other products and techniques used.

The specification and installation of the products implies respecting the standards in force and the manufacturer's recommendations. In this regard, Umicore publishes and regularly updates specification and installation manuals for specific geographic areas and provides training courses. All the information on the latter can be obtained from the local VM ZINC® team.

Umicore can not be held responsible for any specification or use of its products that has not respected all these standards, recommendations and practices.

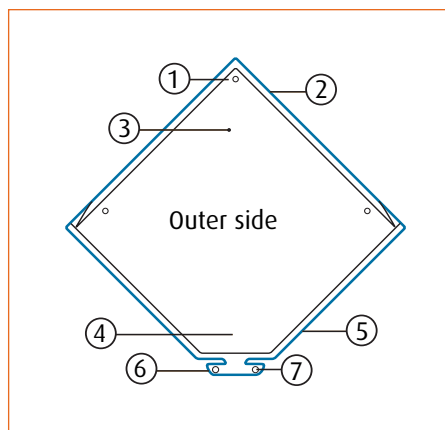
Description of the system

ADEKA is a patented roof and façade system based on small pre-formed QUARTZ-ZINC and ANTHRA-ZINC elements featuring a unique locking key. This ingenious easy to install system allows long term waterproofing. ADEKA is a complete system which includes a full range of flashings to handle all situations.

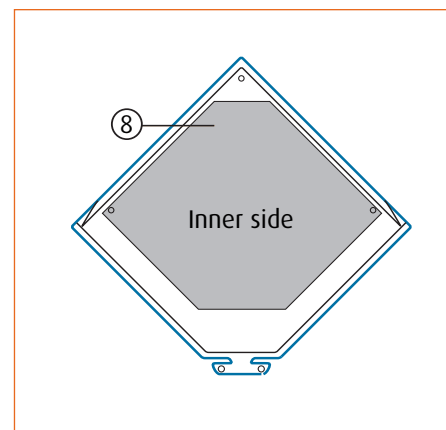
It can be used for roofs with slopes of 25% (15°) or more.

Less than 10 ADEKA elements are needed to cover 1 m² and the easy assembly (no mechanical tools necessary) of ADEKA improves zinc-laying time.

ADEKA front



ADEKA back



- 1** Screw location
- 2** Head upstand
- 3** Alignment mark
- 4** Installation mark
- 5** Bottom downstand
- 6** Locking key
- 7** Key insertion guide
- 8** Polystyrene backing

ADEKA is a lozenge-shaped element measuring 40 x 40 cm.

They are weather resistant thanks to the 5 cm overlap, raised edges at the top and dropped edges at the bottom.

A polystyrene wedge is bonded to the underside of the ADEKA and ensures the rigidity of the panel.

Surface aspects	QUARTZ-ZINC	ANTHRA-ZINC
Thickness		0.65 mm
Useful dimensions		400 X 400 mm
Centre to centre		205 mm
Weight kg/m ²		7.5 kg
No. elements/m ²		≈ 8.8
Packaging		24 ADEKA / 2.7 m ² pack

■ Recommended fixings

Fastener for ADEKA: wood screws 300 Series Stainless Steel. All fasteners have to be seated in pre-punched holes in order to eliminate the risk of contact and abrasion between the fastener head and the panel.

Area of application

■ Type of roofs and facades

Flat roofs and facades.

■ Climates

Low altitudes: no restriction.

Mountain areas: supplementary waterproofing necessary. For buildings higher than 30 meters with high windload, please consult VM ZINC®.

■ Pitches

Minimum pitch $\geq 15^\circ$ (25%).

■ Support

It must be rigid and continuous for all parts where VM ZINC® is installed: under sheets as well as under all box gutters, flashing. There should be no more than a 5 mm difference in height (flush tolerance) between its components at their junction.

There should be no protruding elements on the support, e.g., screws or nails that could damage the underside of ADEKA.

The support must also meet loading requirements in compliance with the national code of practice, have a minimum pull-out strength of 50 daN for each screw, provided that the entire support transmits the cumulated load to the structure.

Private house, Stoumont (Belgium)
Architect(s): F. Leonard
Contractor(s): Pascal France



Installation

ADEKA elements are quickly and easily installed, starting from the bottom and working up, using three screws in pre-drilled rimmed holes. The bottom row is held in place with a locking key fitted under adjacent ADEKA elements. The best way is to work with different ADEKA packs, in order to blend any colour variation and then to mix elements side by side. Any colour variation will then slowly disappear after the installation.



■ Laying procedure

- Mark out lines on the deck every 56 cm (or 28 cm) at right angles to the baseline. These will be used to line the ADEKA elements up with the alignment guide on each element.
- Begin laying from the eaves up, folding the locking key under the fold of the eaves flashing.
- Insert the ADEKA element via locking key into the appropriate grooves in the lower elements.
- Then fix each ADEKA onto the support using 3 VBA 4/35 screws (supplied) in the pre-drilled holes.
- Around flashing, ADEKA elements may be cut to size using shears.
- In some cases, you will need to drill additional screw-holes into re-sized ADEKA elements.
- Waterproof by placing a neoprene washer on the screw.
- ADEKA cut to size elements can also be fixed using one clip or several additional clips.
- Cut away the polystyrene wedge when elements overlap with flashing accessories.



Theatre, Barcelona (Spain)
Architect(s): X. Vicenc, M. Battle, M. Goni, J.M. Regas
Contractor(s): Sanyest



Private house, Les Rousses (France)

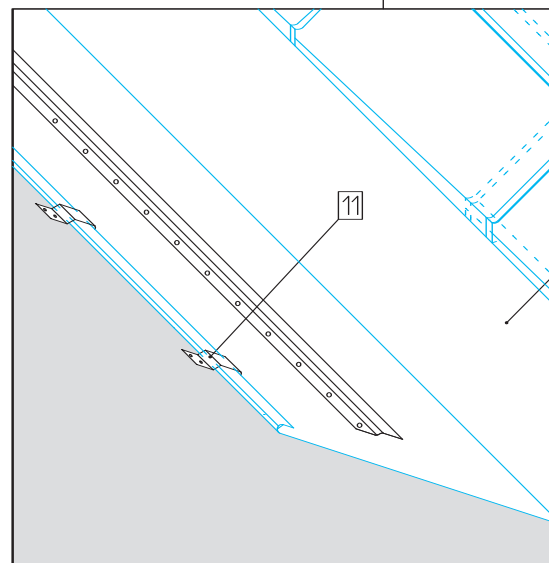
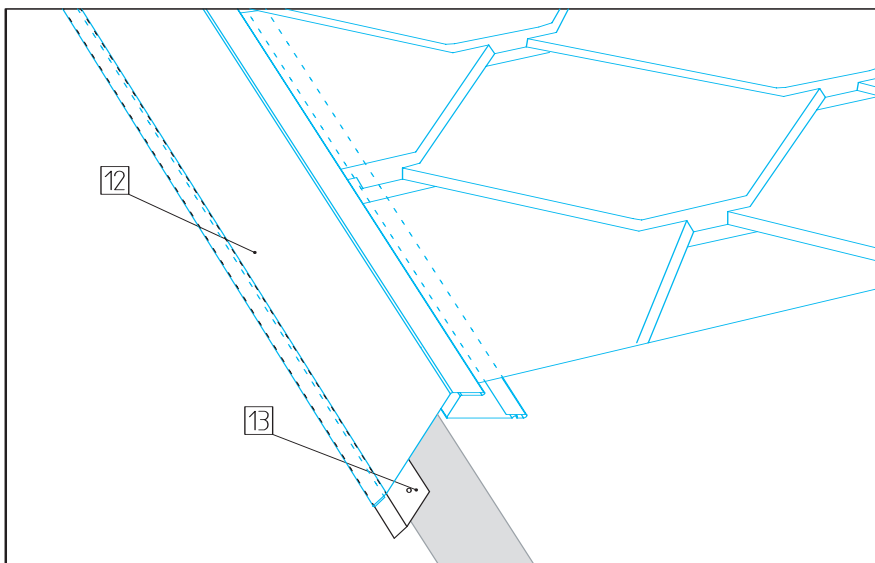
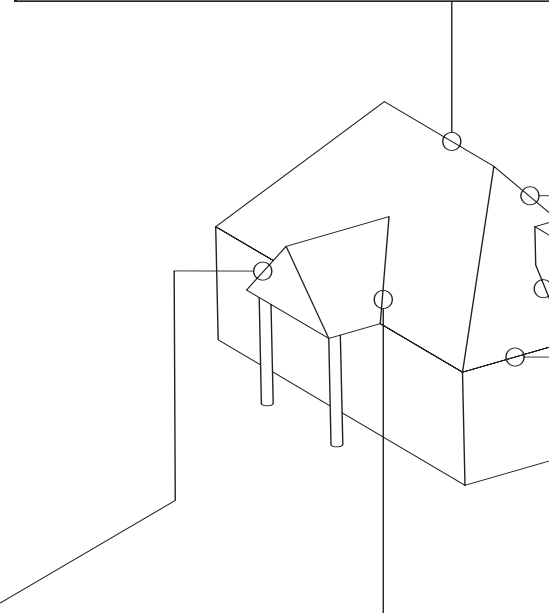
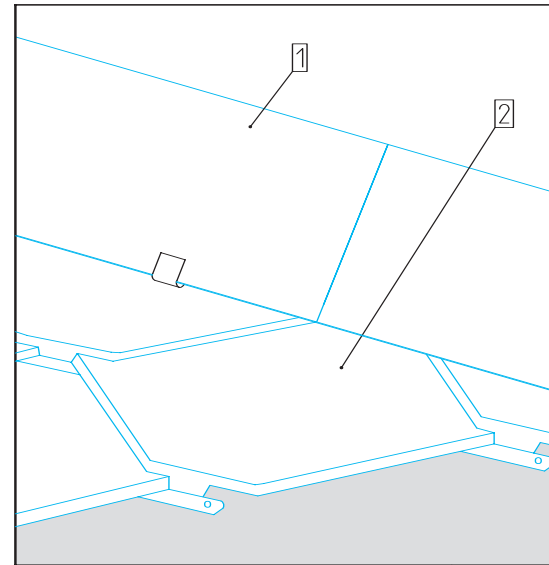


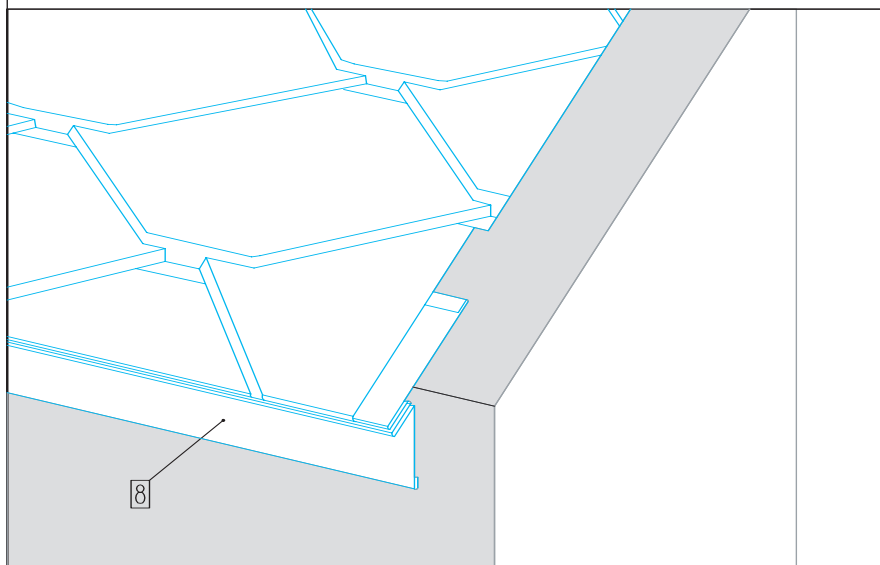
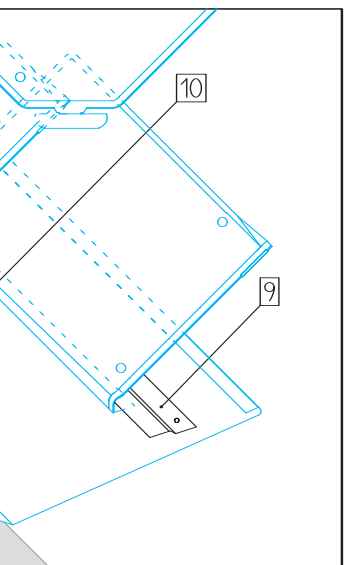
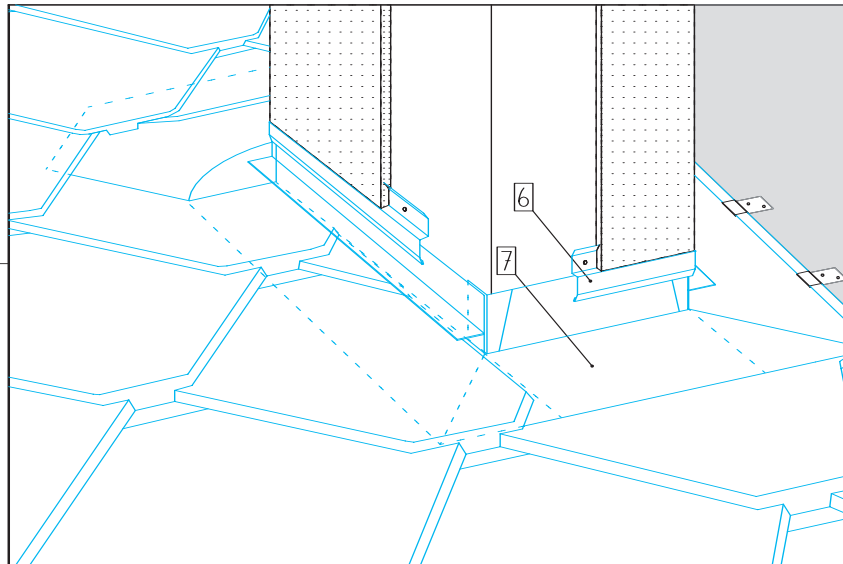
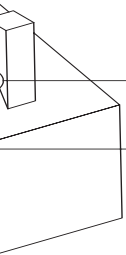
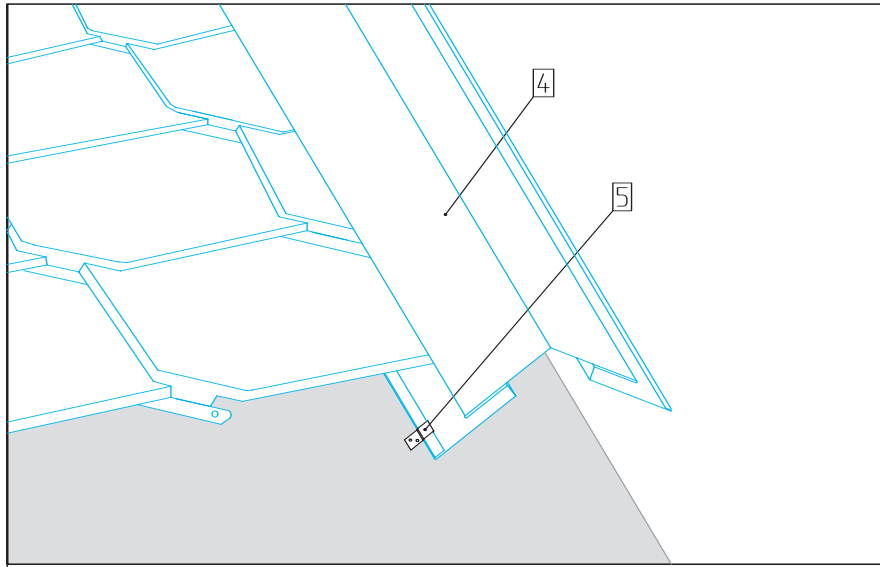
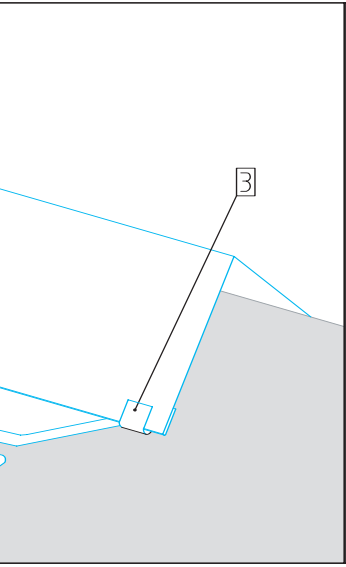
Private house (Denmark)

Details

Roofing

- 1** ADEKA ridge flashing
- 2** ADEKA tiles
- 3** Securing clip
- 4** ADEKA hip flashing
- 5** Fixing clip
- 6** Fillet support
- 7** Zinc flashing
- 8** Eaves flashing
- 9** Galvanized steel fixing strip
- 10** Valley
- 11** Galvanized steel fixing clip
- 12** VM ZINC® edge flashing
- 13** Galvanized steel strip

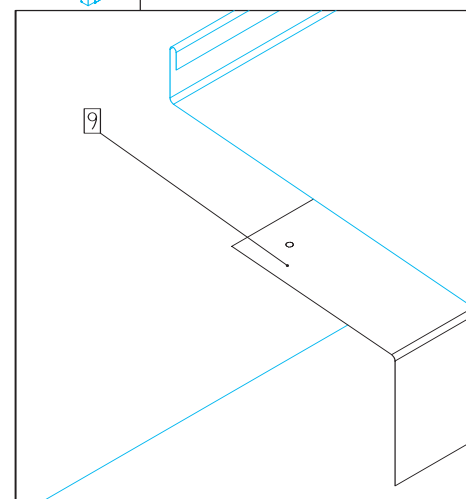
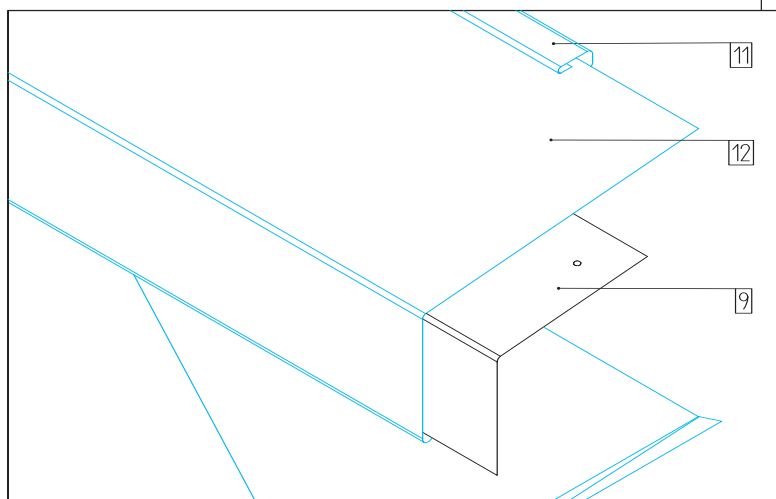
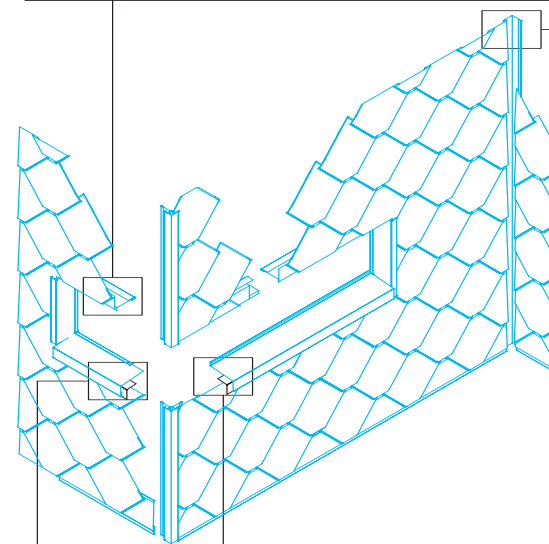
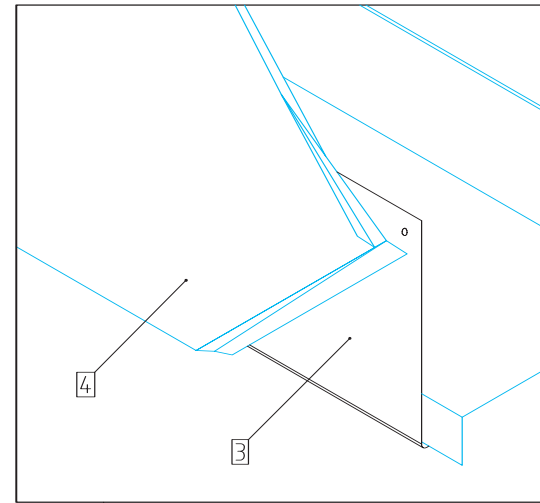




Details

Facade

- 1 Folded strip
- 2 VM ZINC® window flashing
- 3 Galvanized strip
- 4 ADEKA tiles
- 5 VM ZINC® corner flashing
- 6 Galvanized sheet clip
- 7 ADEKA acute angle corner flashing
- 8 ADEKA flashing (apron)
- 9 Galvanized strip
- 10 VM ZINC® window sill flashing
- 11 Folded strip
- 12 VM ZINC® window flashing

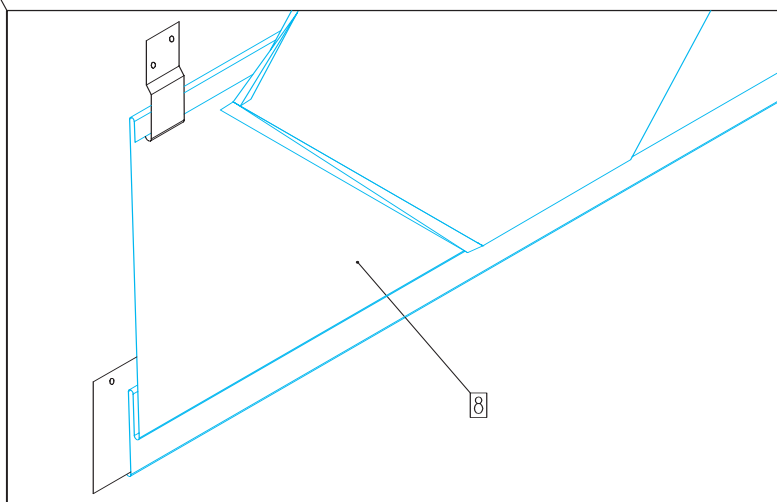
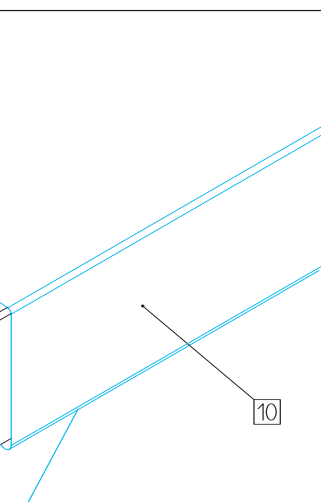
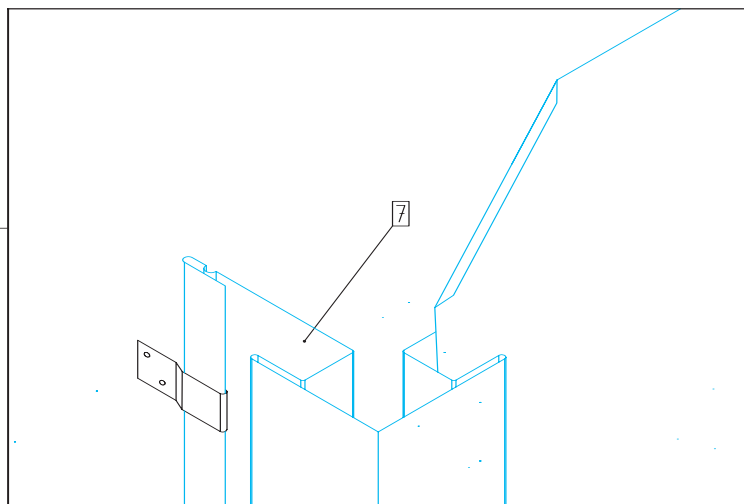
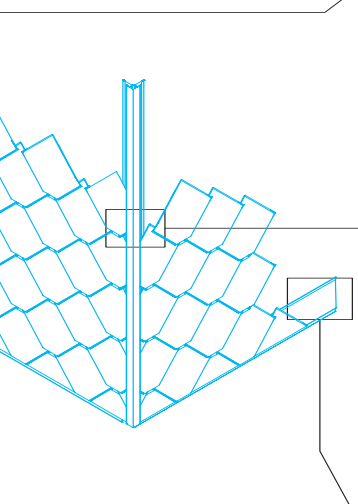
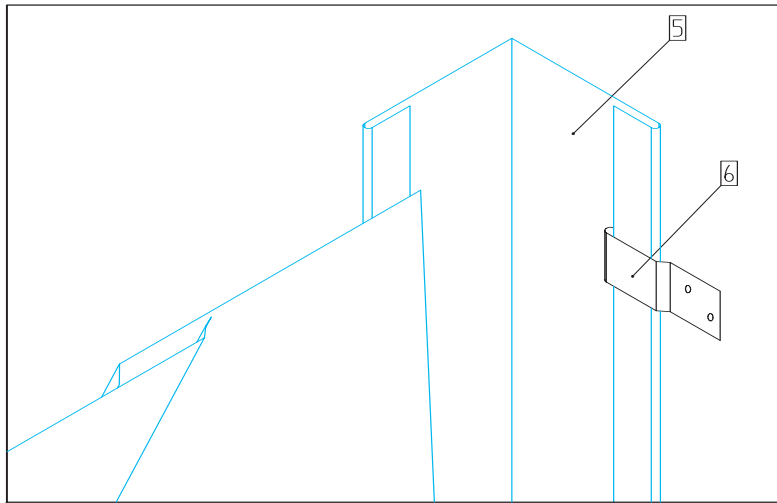
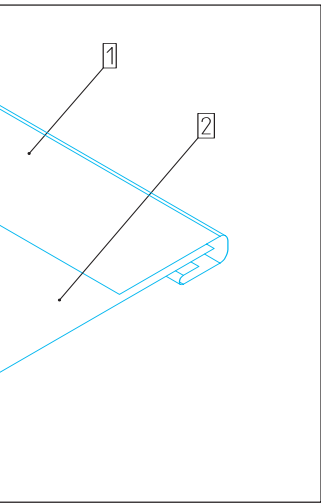


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