

Installation instructions

STOMIX balcony system PROFI variant

Current information can be found at www.stomix.cz

1. Conditions for use

- 1.1 The permissible temperature of the air during application and curing materials is +5 to +30 °C.
- 1.2 Freshly applied substances must be protected from exposure to wind, rain or drying out too quickly due to solar radiation.

2. Preparing the substrate (reconstruction)

- 2.1 Prior to the actual reconstruction of loggias, balconies or terraces an assessment is made regarding the walls, ceilings, and ends of existing structures. Deteriorated or damaged concrete sections are cleaned with the BetaFORM ® system.
- 2.2 Existing metal parts - such as handrails, must be thoroughly cleaned of rust, receive double anticorrosive coatings. This is always the preferred solution - using a new railing design, respecting the particular angle backing down from the facade and the anchoring of supporting pillars in the front or from below the balcony - loggia boards.
- 2.3 In the case of using the original railings, it is recommended that they are dismantled and reassembly should take place after the completion of work on the balcony - loggia board.
- 2.4 The existing catchment layer must be removed.
- 2.5 The balcony - loggia board will be assessed in terms of flatness. The recommended flatness is 3 mm / m. If necessary to flatten with a suitable material with the consistency of at least 250 kPa.

3. Preparation of substrate (new construction)

- 3.1 Balcony - loggia board will be assessed in terms of flatness. The recommended flatness is 3 mm / m. If necessary to flatten with a suitable material with the consistency of at least 250 kPa.
- 3.2 Any local disparities are offset by a suitable material with the consistency of at least 250 kPa.
- 3.3 Priority will be elected to the anchoring rails supporting pillars to the front or underside of the balcony - loggia boards. The slope of the abutment must be from the façade down.
- 3.4 Installation of handrails is recommended after completion of work on the balcony - loggia plate.
- 3.5 The preferred anchoring of railing posts is at the bottom of the balcony or from the front panel.

4. Bonding gradient layer

- 4.1 The method for preparation of used materials is determined by the technological instructions.
- 4.2 Before starting work it is necessary to apply base EH penetrating primer or HC-4 according to the instructions of the Technical sheet.
- 4.3 After drying of primer a layer of BetaFIX ® SF or AlfaFIX ® S1 adhesive material is applied to the substrate using an indented smoother .
- 4.4 Adhesive material is applied to such an extent as to allow large scale gluing of S-board Terrace with the substrate at a thickness providing the ability to bridge local inequalities.
- 4.5 Into freshly applied adhesive we place S-board Terrace boards in order to keep their placement away from the facade panels. Longer end upside down.
- 4.6 Individually placed boards can be settled flat for example by using a spirit level or battens.
- 4.7 The boards are sealed in their joints with Butyl tape Fleece 100 x 1.5.

5. Installation of flashing

- 5.1 Balcony gutter rails are formatted according to the free edges of the balcony/loggia boards. To treat corners we can use a corner profile, which can be bent to the desired angle. Its bottom is taped with butyl tape 15 x 1.5, or butyl tape Fleece 100 x 1.5.
- 5.2 Connections of flashing parts are attached with a joiner which is taped with butyl tape 15 x 1,5. Plastic extensions are placed at the end of gutter profiles. If the profile is closed on the facade, the ending in contact with the facade is treated with sealing butyl tape.
- 5.3 At the edge of the outdoor balcony slabs formed by S-board Terrace panels are fixed with double sided Butyl Tape 15 x 1.5.
- 5.4 The balcony drip ledge is closely bonded to the double sided butyl tape.
- 5.5 The integrated Balcony drip edge, if necessary, can be locally sealed with Butyl Fleece tape 100 x 1.5 over the perforated portion.

6. Hydro-insulating layer

- 6.1 Individual foil DITRA DRAIN strips for drainage should be cut so that their joints are consecutive. Holes are cut in the foil in the locations of openings.
- 6.2 Joints in drainage fabric should be placed at least 100 mm from the joints between panels of S-board Terrace.



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- 6.3 Formatted foil is marked in the joints and from the bottom of the individual strips joined - using butyl tape Fleece 100 x 1.5.
- 6.4 On the edges of the foil in the areas where the application will continue on the vertical structure, butyl tape Fleece 100 x 1.5 should be stuck, so that it is fixed at half its breadth to the foil (thus allowing a double cover with paper tape).
- 6.5 If the points related to design contain vertical edges, the corner sealing tape is used. This is affixed to the upper layer of the foil.
- 6.6 After placing the foil it is affixed from behind with the Butyl Fleece 100 x 1.5 tape.
- 6.7 The adhered surface of the foil is left to stand at least 2 hours in order for the glue on the Butyl Fleece 100 x 1.5 tape to closely adheres with the foil. The process can be partially accelerated by moderate heating with a hot air gun.
- 6.8 The entire surface is coated using an indented float (teeth 6 mm) with adhesive paste BetaFIX® SF.
- 6.9 Into the freshly applied adhesive materials is pressed the drainage foil DITRA DRAIN. Foil is evenly pressed into the adhesive material using a slat or spirit level.
- 6.10 Any overlapping parts of the foil are cut.
- 6.11 Loose strips of butyl Fleece 100 x 1.5 is bonded to the substrate using BetaFIX® SF adhesives.
- 6.12 If on the top of balcony board has pervading elements, for which it will be necessary to disrupt the integrity of the foil, these points must be sealed.
- 6.13 Around the point of penetration we must remove approximately a 3 to 4 cm wide portion of glass textile mat from the top of the DITRA DRAIN drainage foil. The protruding element is sealed with sealant or even better Fleece 100 x 1.5 butyl tape. Sealing must be done so that water led by the drainage joints can not get to the gap.

7. Final surface finish

- 7.1 On the prepared insulating layer after the hardening of the previous layers of adhesive material is applied BetaFIXSF to such an extent as to enable full-scale application of foil with adhesive drainage tiles suitable for exteriors.
- 7.2 Tiles are glued onto the freshly applied adhesive material. Before hardening of the adhesive, tiles are aligned flat using a spirit level or battens.
- 7.3 It is recommended to use a T-bar for the front edges.
- 7.4 Expansion joints in tiles should be placed every 1.5 times the depth of the balcony. This is done through the insertion of an expansion bar or via flexible silicon.
- 7.5 After curing of the adhesive material, tiles are cleaned from debris.
- 7.6 Filling gaps is performed at earliest two days after affixing tiles and flexible jointing compound designed for exteriors or acrylic joint filler is used.

8. Transport and storage

- 8.1 Materials and substances must be transported and stored in their original packaging. During storage must be observed the shelf life on the packaging.
- 8.2 Adhesive materials, compounds, and jointing materials supplied in dry form are stored in original containers in a dry place on a wooden shelf, pallet.
- 8.3 Priming and painting base colours are stored in their original containers protected from frost and direct sunlight.
- 8.4 Plates of S-board Terrace, should be stored in a dry environment flat on a flat surface. They must be protected against mechanical damage, UV radiation and exposure to organic solvents.
- 8.5 Mouldings and profiles are stored lengthwise on a flat surface. PVC profiles and profiles with integrated glass mesh must be protected from UV radiation.
- 8.6 Butyl Tapes Fleece 100 x 1.5 and butyl tape 15 x 1.5, is stored in moderate temperature areas. They can be stored for a limited time only.

9. Waste management

- 9.1 Disposal of unused residues is done according to relevant safety data sheets for the individual materials.
- 9.2 The remains of cement-based materials shall be sprayed with water and after curing is deposited with other waste (170101 - Concrete).
- 9.3 Packaging of dry cement-based materials is disposed of as wastes (150101 - Paper and cardboard packaging).
- 9.4 Unused residues of S-board Terrace boards will be disposed of as wastes (170,604 - insulation material).
- 9.5 Remnants of plastic slats with glass mesh and glass mesh, sealing and adhesive tapes, are disposed of as wastes (170,904 - mixed construction and demolition waste).