

BOLIX RIBBED EFFECT PANELS

Grooved/rib effect panels

PRODUCT DESCRIPTION:

- decorative element attached to the wall surface to give a grooved/ribbed effect to building interiors and exteriors
- easy to install and fit to each other
- high impact strength
- high flexibility
- applied as an alternative to render finishes in ETICS systems and on not insulated substrates

USE:

BOLIX RIBBED EFFECT PANEL is a panel designed to provide a decorative grooved/ribbed effect to interior and exterior walls of new and existing properties.

The product can be applied to:

- base coat in external thermal insulation and composite systems (ETICS) with polystyrene and mineral wool,
- mineral substrates such as: concrete, cement or cement-lime renders.
- fibre cement cladding and cement-bonded particleboards, which are firmly fixed to the substrate or frame,
- plasterboards,
- gypsum plasters,

SUBSTRATE PREPARATION:

Where the finish effect BOLIX RIBBED EFFECT PANEL is installed over the insulation made of EPS boards or mineral wool slabs, follow the valid ETICS Instruction Manual IB/01 EPS (system with EPS boards) or BOLIX IB/02 MW (system with mineral wool slabs) up to and including reinforced base coat installation.

The surface must be structurally sound, stable, even, clean of surface contaminants such as dust, grease, bitumen and other barrier materials that may affect adhesion. Remove any loose or friable material, peeling or flaking paint or plaster. Prime porous surfaces with the BOLIX N Primer. Level minor gaps (up to 5mm) and imperfections with a base coat for embedding glass fibre mesh such as BOLIX U or the cementitious joint compound BOLIX SPN (concrete substrate). Level major gaps and imperfections with the mortar BOLIX W and when set, smooth out the entire surface using the above base coat or joint compound.

When attaching decorative panels to gypsum plaster or plasterboards, prime the surface with the primer BOLIX UltraGrunt.

Always prime the surface with BOLIX OP, prior to panel installation.

PRODUCT PREPARATION:

A ready-to-use product.

To reduce waste, plan the layout of the panels across one individual surface prior to panel installation.

Cut the panels using an angle grinder or mitre saw with diamond blade. After cutting, sand the edges with sanding paper.

APPLICATION:

Attach to the wall using the adhesive KD PANEL. Average adhesive coverage when installed on even surface is approx. 2.8 kg/m². Spread the ready mix adhesive across the surface and work well into the surface using a 6x6 mm notched trowel. Finally, work perpendicular to the direction the panels are attached. The panels should be installed with the long edges running vertically, from the left to right or vice versa. First, place the panel on the wall with ca. 5 mm gaps between all

adjacent panels, press firmly into the adhesive, slide and push into place to butt joint with the previously installed elements or with a 2 mm gap. The joints must be tightly filled with the adhesive BOLIX KD PANEL to seal and prevent rainwater migration under the panels - make sure that the panel edges are embedded in the adhesive BOLIX KD PANEL. Remove excess adhesive with a brush or scraper, alternatively a slightly damp sponge can be used. Once the panel is in place, apply firm, even pressure to it with your hand and a wallpaper roller to provide good contact. Make sure that the panels are firmly bedded without any air voids or pockets. Clean off the excess adhesive with a damp sponge before it dries out. Time between adhesive application and panel installation must be less than 10 min.

For alternative way of joining decorative panels with long edges running horizontally, with thin-coat render finishes, or for panel arrangements other than vertical, please refer to the instructions for making the grooved/ribbed effect BOLIX RIBBED EFFECT PANEL.

Apply the exterior paint BOLIX SIL / BOLIX SIL Complex in the desired colour prepared solely on the base 00_{RIBBED}, not earlier than 3 days and not later than 1 month from panel installation. We do not recommend painting the decorative panel with the paint BOLIX SIL prepared on the base 30. The WHITE colour is made to order.

Apply the paint in minimum two coats. Spread evenly with a paintbrush and go with the pattern. Make sure that no excess paint is left, especially in holes indentations. For the first paint coating, thin the paint with up to 10% of fresh clean water. Apply the second coat when the first is dry, not earlier than after 12h, even if the paint coat is touch dry. The paint must be rubbed into the surface of the panels, and especially into the grooves of the ribbed texture (in the inside corners), making sure that the paint film thickness is uniform (not thicker locally, no paint sags, runs), which applies to each paint coating.

NOTE!

Do not paint the panels with a roller or block brush, as the paint cannot be rubbed into hard-to-reach areas properly. Using of such tools also prevents uniform paint distribution over the entire surface of the ribbed panels and uneven paint film thickness. Failure to follow the rules of painting may result in cracking of the paint film surface.

LIMITATIONS AND RECOMMENDATIONS:

- Make sure that the surface is even and well prepared.
- Prior to adhesive application, allow fresh cement and lime-cement plasters to cure for minimum 3-4 weeks and gypsum plasters for minimum 2 weeks.
- Do not apply to areas exposed to prolonged water exposure. In particular, do not apply to flat or inclined surfaces, exposed to accumulated snow and areas not damp-proofed against capillary action.
- The ribbed panels should not be in direct contact with flashing, sills and other surfaces exposed to water or snow.
- Before the decorative effect is created, cover or mask all adjacent surfaces on which the panels are not to be installed.
- Plan the surface area taking into consideration weather conditions, surface and workforce.
- During application operation and immediately afterwards, when the adhesive fixing the decorative panel BOLIX RIBBED EFFECT PANEL to the surface, is drying, or after paint film application, protect the surface from direct sunlight exposure, precipitation, water ingress, or damp penetration (including as a result of condensation on the



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surface of the installed panels) and wind action. The panel surface to be painted, must be completely dry. Use scaffolding meshes.

- Low temperature, increased humidity and improper air circulation extend the provided drying time of the adhesive.
- Make sure that skinning of the adhesive has not started before attaching the panels, as this may impair the adhesion and lead to adhesive bond failure/debonding of the panel. If the skinning occurred, remove the adhesive and apply again.
- Do not install panels using the dab method.
- Superficial, not split hairline cracking, or checking in the inside corners of panel grooves, visible prior to installation of the panel, is not a material defect. Following correct panel installation, drying and adhesive curing and after the panel is coated twice with the BOLIX SIL paint (base 00_{RIBBED}), compliant with the instructions, such cracking should not be visible.
- We do not recommend application of dark colours (HBW < 30) to surfaces exposed to sunlight, due to increased absorption of solar radiation. In order to reflect some of the sun heat and thus reduce surface temperature on the façade, for dark colours (HBW<30) the paint coats BOLIX SIL or BOLIX SIL Complex (base 00_{RIBBED}) with 'cool pigments' must be used.
- Solely the BOLIX SIL paint made on the base paint 00_{RIBBED}, can be used to paint coat panels with the ribbed/grooved effect BOLIX RIBBED EFFECT PANEL. No other paint coats are recommended.
- If the paint film is exposed to sunlight before it is completely dry (min. 12 h under optimum conditions), it will be highly prone to paint adhesion loss (peeling, blistering, flaking) and/or cracking of the paint film on the panel grooves. This effect may be visible immediately after painting or in the course of time. Dark paint colours are much more prone to these adverse effects, when exposed to sunlight, since the dark painted surfaces heat up faster.
- Insufficient curing time between successive paint coat applications (min. 12 h) and application of excessive paint coating thickness in the panel grooves may lead to paint film cracking.
- Damp, wet or dew covered panels cannot be paint coated. It is especially in autumn or spring that panels can be exposed to moisture penetration.
- The installation of the decorative effect BOLIX RIBBED EFFECT PANEL may lead to formation of water streaks/marks on the façade below the installed panels, due to rainwater and/or condensation water running down the panels with dirt. For this reason, always consider the wall surface on which panels will be installed and the intensity of weather impact on the building façade. Such water stains/marks may be concealed, for example, by applying dark coloured thin-coat rendering below the decorative panels. Water marks/stains are minimised, for example, by installation of drip trims under the panels. The joints/connection between panels and with other decorative elements or wall sections should always be detailed in the insulation design for the specific project. Contact your representative of BOLIX S.A. to get a sampled joint between panels and with other wall details.
- Prior to panel installation, plan the size of the wall area to which the panels will be attached. When installing the panels, make sure it is correctly positioned in relation to different wall details (e.g. building corners, window and door reveals and other grooves, offsets, recesses or openings) and the adjacent, previously installed panels, to prevent any discrepancies on the edges of the decorative effect. The position of the panels is corrected by forming a joint between them with a maximum width of up to 2 mm. The joints must be tightly filled with

the adhesive BOLIX KD PANEL. Check and verify panel alignment as work proceeds and correct, if necessary, due to acceptable dimensional tolerances of the panels, which is specified later in this technical data sheet.

- The manufacturer is not responsible for the consequences of connecting the panels with physically and chemically incompatible materials or with paints not recommended by BOLIX.

PRECAUTIONS:

N/A

TOOLS:

- angle grinder
- agitator or low-speed drill
- brush
- roller for pressing the ribbed panel
- putty knife
- 6x6 mm toothed trowel

TECHNICAL DATA:

Descriptions included in the TDS and the following technical data are for the temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions the technical data may vary.

Ambient and surface temperature during installation, curing and drying:

from +5°C to +25°C

Relative humidity during installation, curing and drying:

up to 80%

Thickness*:

- Bottom* 2 mm
- Entire element in the thickest section: 8 mm

* applies to standard panel TA15B11H6S11; dimensions may vary depending on the pattern

Surface dimensions*:

26 cm x 110cm**
26 cm x 200cm
26 cm x 245cm
26 cm x 270cm
26 cm x 300cm

* apply to standard panel TA15B11H6S11; dimensions may vary depending on the pattern

** panel with shorter edges chamfered at 35°angle]

Acceptable deviations from nominal dimensions acc. to EAD 8222013-07

- Thickness: ±1,0 mm
- Width: ±2,0 mm
- Length: ±2,0 mm

Colour range:

Cream Colour variations between different production batches is not a products defect.

Final colour effect is obtained when the paint coat BOLIX SIL / BOLIX SIL Complex prepared on the base paint 00_{RIBBED} is applied.

Packaging:

6 pcs. package

Shelf life:

2 years - date of production provided on the packaging



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APPROXIMATE COVERAGE*:

Panel size:	Nominal coverage
26 cm x 110cm	6 decorative panels (1 package) / approx. 1.72 m ²
26 cm x 200cm	6 decorative panels (1 package) / approx. 3.12 m ²
26 cm x 245cm	6 decorative panels (1 package) / approx. 3.82 m ²
26 cm x 270cm	6 decorative panels (1 package) / approx. 4.21 m ²
26 cm x 300cm	6 decorative panels / approx. 4.68 m ²

* applies to standard panel TA15B11H6S11; dimensions may vary depending on the pattern

Coverage depends on panel geometry

STORAGE:

Store in dry conditions in intact packaging in temp. between +5°C and +25°C. Protect from direct sunlight, exposure to water, heat or frost. Store away from the reach of children.

COMPOSITION:

Resin binder, fine mineral fillers and modifiers.

BOLIX S.A. guarantees product quality but has no control over its application and use. BOLIX takes no responsibility for contractors' and distributors' performance. The information supplied herein is given in good faith based on our current knowledge and latest application methods. The information provided cannot replace designer's and contractor's expertise and does not dismiss anyone from observing good practice and the OHS regulations. Should you have any further queries, carry out necessary tests or contact BOLIX Customer Technical Support. The publication of this Technical Data Sheet renders older editions invalid.



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