BOLIX RIBBED EFFECT PANEL

Grooved/rib effect panels

PRODUCT DESCRIPTION:

- **decorative element attached to the wall surface to give a grooved/ribbed effect to building exteriors and interiors**
- **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 non-insulated substrates**

PRZEZNACZENIE:

BOLIX RIBBED EFFECT PANEL is a panel designed to provide a decorative grooved/ribbed effect to the exterior walls of new and existing buildings and to interior walls.
The product can be applied to:
-reinforced base coat in external thermal insulation and composite systems (ETICS) with polystyrene and mineral wool,
-mineral substrates such as concrete, cement renders and cement-lime renders,
-fibre cement cladding and cement-bonded particleboards firmly fixed to the substrate or frame,
-plasterboards,
-gypsum plasters.

SUBSTRATE PREPARATION:

Where the decorative effect BOLIX RIBBED EFFECT PANEL is used as the finish coat of an external thermal insulation system based on EPS boards or mineral wool slabs, the insulation system up to and including the reinforced base coat shall be installed in accordance with the current BOLIX ETICS Instruction Manual IB/01 EPS (system with EPS boards) or BOLIX IB/02 MW (system with mineral wool slabs).
The surface of non-insulated walls must be structurally sound, even, dry and clean of surface contaminants and barrier materials such as dust, grease, loose particles, bitumen, algae and other substances that may affect adhesion. Remove any weak or loose render and old paint coatings. Prime porous substrates with BOLIX N Primer. Level minor surface irregularities up to 5 mm with a base coat for embedding glass fibre mesh, such as BOLIX U, or with the cementitious joint compound BOLIX SPN on concrete substrates. Level major irregularities and defects with BOLIX W mortar and, once set, smooth out the entire surface using the above-mentioned base coat or joint compound.
When attaching decorative panels to gypsum plaster or plasterboards, prime the substrate with BOLIX UltraGrunt.
In all cases, prior to installing the decorative panels, prime the substrate with BOLIX OP.

PRODUCT PREPARATION:

A ready-to-use product.
To reduce waste, plan the layout of the panels across each individual surface prior to panel installation. Cut the panels using an angle grinder or mitre saw with a diamond blade. After cutting, gently smooth the edges with sanding paper.

APPLICATION:

In each case, prior to installation, it is recommended to prepare a representative trial area in order to assess the final aesthetic effect.
Attach the panels using BOLIX KD PANEL adhesive. Average adhesive coverage on an even substrate is approx. 2.8 kg/m². Apply the ready-mixed adhesive to the substrate and work it thoroughly into the surface using a 6×6 mm notched trowel, finally spreading the adhesive perpendicular to the direction in which the panels are to be installed. Install the panels with their long edges running vertically, working from left to right or vice versa.

First, position each panel with a gap of approx. 5 mm from every edge of the previously installed panel. Then press the panel into the adhesive and slide it towards the previously installed panels, leaving a gap of up to 2 mm or forming a butt joint. The joints must be tightly filled with BOLIX KD PANEL adhesive to prevent rainwater migration under the panels. Make sure that all edges of the installed panels are embedded in BOLIX KD PANEL adhesive. Remove excess adhesive with a brush or scraper. A slightly damp sponge or brush may also be used for final cleaning. Press each panel firmly into place by hand and with a wallpaper roller, making sure that the entire panel is fully bedded against the substrate and that all air voids are removed from underneath it. Remove any excess adhesive squeezed out of the joints with a damp sponge before it dries. The time between adhesive application and panel installation must not exceed 10 minutes.

Examples of recommended methods for joining decorative panels along their shorter edges, connecting them with thin-coat render finishes and arranging them in layouts other than vertical are provided in the instructions for creating the BOLIX RIBBED EFFECT PANEL grooved/ribbed effect. Apply BOLIX SIL / BOLIX SIL Complex exterior paint in the selected colour prepared solely on the 00RIBBED base no earlier than 3 days and no later than 1 month after panel installation. Painting the decorative panels with BOLIX SIL paint prepared on base 30 is not recommended. WHITE paint is available by special order. Apply the paint evenly in at least two coats using a paintbrush, working along the pattern and making sure that no excess paint remains, especially in recessed areas. For the first coat, dilute the paint with a small amount of clean water, up to 10% by volume. Apply the second coat only after the previous coat has dried, but not earlier than after 12 hours, even if the surface appears touch dry. Rub the paint thoroughly into the panel surface, especially into the inside corners of the pattern, i.e. the concave angle between the base of the rib and the raised section. Make sure that the paint film thickness is uniform, without local thickening. This requirement applies to every paint coat.

NOTE!
Do not paint the panels with rollers or block brushes, as these tools do not allow the paint to be properly worked into hard-to-reach areas. When used on ribbed panels, such tools do not ensure even paint distribution and may cause local thickening of the paint film. Failure to follow the painting instructions may result in cracking of the paint film surface.

LIMITATIONS AND RECOMMENDATIONS:

- A detailed hygrothermal analysis is recommended. The analysis must take into account the specific vapour diffusion properties of the decorative cladding and the risk of interstitial condensation.
- When selecting the colour of BOLIX SIL RIBBED silicone paint, particularly for walls exposed to sunlight, the possible thermal load that may lead to product damage must be taken into consideration.

Masz pytania?
Zadzwoń!
801-650-222
Napisz!
serwis@bolix.pl

BOLIX SA
Ul. Stolarska 8
34-300 Żywiec
Tel.33 475 06 00
Fax. 33 475 06 12

Znajdź nas
www.trwaleocieplenie.pl
www.facebook.com/bolixsa
www.bolix.pl

BOLIX RIBBED EFFECT PANEL

Grooved/rib effect panels

- Particular attention must be paid to ensuring that the substrate is even and thoroughly prepared.
- On fresh cement and cement-lime renders, installation of the decorative panels may commence only after a minimum curing period of 4 weeks, while gypsum plasters must be allowed to cure for a minimum of 2 weeks.
- Application to insufficiently cured or damp substrates may result in detachment, blistering, efflorescence, etc. Do not apply to surfaces exposed to prolonged water exposure. In particular, do not apply to horizontal or inclined surfaces, areas exposed to accumulated snow or substrates not protected against capillary action. This also applies to permanently damp rooms such as bathrooms, saunas, swimming pools, etc. The ribs should not be in direct contact with surfaces such as flashings, window sills or other surfaces that may be periodically exposed to water or accumulated snow.
- Before creating the decorative effect, properly cover and protect all elements within the work area which are not intended to be treated.
- Define the surface area to be treated, taking into consideration weather conditions, the type of substrate and the available workforce and application possibilities.
- During application and immediately afterwards, while the adhesive fixing the BOLIX RIBBED EFFECT PANEL decorative panel is drying, and after application of the paint coating, protect the surface from direct sunlight, precipitation, flooding, water ingress and damp penetration, including moisture condensation on the surface of the installed decorative panels, as well as from wind action. The surface of the panels to be painted must be completely dry. Use scaffolding meshes. Do not install on heated surfaces. Low temperature, increased humidity and insufficient air circulation extend the adhesive drying time in relation to the period specified in the Technical Data Sheet. Make sure that skinning of the adhesive does not occur while the panels are being installed, as this may impair adhesion and lead to panel debonding. If skinning occurs, remove the adhesive and apply a fresh portion.
- Individual production batches may vary in shade and dimensions within the specified tolerances. Minor irregularities result from the manufacturing technology and do not constitute a material defect. The visual consistency of the products must be verified before installation.
- Superficial, non-open hairline cracks in the inside corners of the pattern of a panel prior to installation do not constitute a material defect. Following correct panel installation, drying and stabilisation of the adhesive layer, and after a minimum of two coats of BOLIX SIL paint, base 00_{RIBBED}, have been applied in accordance with the application instructions, such cracks should no longer be visible.
- Individual production batches may vary in shade and dimensions within the specified tolerances. Minor air bubbles or edge irregularities result from the manufacturing technology and do not constitute a material defect. The contractor is required to verify the visual consistency of the products before installation.
- The contractor is required to provide a complete, flexible perimeter seal at all junctions between the cladding and flashings, window and door joinery or other façade materials, using dedicated sealants. Failure to protect the panel edges against water ingress beneath the panel structure constitutes a serious application error and invalidates the warranty regarding proper adhesion of the panels to the substrate.
- The use of dark colours (HBW < 30) is not recommended on façade surfaces exposed to sunlight due to increased absorption of solar radiation. In order to reflect part of the thermal energy generated by solar radiation and thereby reduce the façade surface temperature, BOLIX SIL or BOLIX SIL Complex paint coatings prepared on the 00_{RIBBED} base and containing “cool pigments” must be used for dark colours (HBW < 30).
- Only BOLIX SIL paint prepared on the 00_{RIBBED} base may be used to create a paint coating on the BOLIX RIBBED EFFECT PANEL imitating a grooved/ribbed appearance. No other paint coatings are recommended for painting the panels.
- If the paint coating is exposed to sunlight before it has completely dried, i.e. for a minimum of 12 hours under optimum conditions, there is a high risk of delamination at the rib/paint interface and/or cracking of the paint coating. This effect may become visible immediately after painting or after a certain period of time.
- In the case of dark paint colours, this risk is significantly higher due to faster heating of the painted surface under solar radiation.
- An insufficient curing period between successive paint coat applications, i.e. a minimum of 12 hours, and local thickening of the paint coating in the inside corners of the panels may contribute to cracking of the paint coating.
- Do not paint ribbed surfaces that are covered with dew or are damp. Such conditions frequently occur, for example, in autumn or spring.
- The pattern of the BOLIX RIBBED EFFECT PANEL decorative effect may cause linear water streaks to form on the façade below the installed panels as a result of rainwater and/or condensation water running down together with dirt. For this reason, the arrangement of the panels must always be considered in relation to the surfaces with which they will be connected, and the intensity of environmental exposure affecting the particular building façade must be taken into account. The visual intensity of any streaks may be reduced, for example, by applying a dark-coloured thin-coat render finish below the decorative panels. Water streaks may be minimised, for example, by installing drip trims below the panels. The method of joining the panels to each other and to other decorative elements and façade areas must always be designed in detail and included as a construction detail in the design documentation for the specific application. Examples of panel-to-panel joints and connections with other façade elements can be obtained by contacting the manufacturer.
- The use of decorative panels results in a local increase in the thickness of the finish layers in relation to the remaining façade surfaces finished with a thin-coat render. Consequently, over time, water streaks and uneven soiling may appear at the junctions between the elements as a result of dirt accumulating at the panel edge, water splashback and rainwater run-off.
- Before installing the panels, accurately determine the dimensions of the area to be covered. When installing each panel, check its correct position in relation to the edges of the area, such as building corners, window and door reveals, other offsets and openings, as well as in relation to the adjacent previously installed panel. This is intended to eliminate possible dimensional discrepancies at the edges of the decorative effect. The panel position may be corrected by forming

Masz pytania?
Zadzwoń!
801-650-222
Napisz!
serwis@bolix.pl

BOLIX SA
Ul. Stolarska 8
34-300 Żywiec
Tel.33 475 06 00
Fax. 33 475 06 12

Znajdź nas
www.trwaleocieplenie.pl
www.facebook.com/bolixsa
www.bolix.pl

BOLIX RIBBED EFFECT PANEL

Grooved/rib effect panels

a joint between the panels, with a maximum width of up to 2 mm. The joint must always be filled with BOLIX KD PANEL adhesive. Ongoing checking of panel alignment and any necessary correction may be required due to the dimensional tolerance of the panels 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.
- The manufacturer is not responsible for damage to decorative panels resulting from structural movement of the building, substrate movement, absence of movement joints, dark colour schemes, etc.
- Do not use aggressive cleaning agents or excessively high water pressure to clean the decorative cladding.
- Natural ageing of the coatings, including changes in shade, does not constitute a product defect.
- Effects resulting from dirt, environmental deposits, mechanical damage and the resulting consequences do not constitute a product defect.

PRECAUTIONS:

In accordance with the regulations applicable in the country of use.
This product is a prefabricated article. A Safety Data Sheet in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II, is not required.

TOOLS:

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

TECHNICAL DATA:

Descriptions included in the Technical Data Sheet and the following technical data refer to a temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions, the stated technical data may vary.

Ambient and surface temperature during installation, curing and drying:
from +5°C to +25°C

Relative air humidity during installation, curing and drying:
up to 80%

Thickness*:
- Base: 2 mm
- Entire element at the thickest section: 8 mm

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

Surface dimensions*:
26 cm x 110 cm **
26 cm x 200 cm
26 cm x 245 cm
26 cm x 270 cm
26 cm x 300 cm

* apply to standard panel TA15B11H6S11; dimensions may vary depending on the pattern
** panel chamfered along the shorter edges at an angle of 35°

Weight:
approx. 7 kg/m² - apply to standard panel

Acceptable deviations from nominal dimensions according to PN-EN 822:2013-07:
- Thickness: ±1.0 mm
- Width: ±2.0 mm
- Length: ±2.0 mm

Water vapour diffusion resistance:
Decorative panel + BOLIX SIL prepared on the 00_{RIBBED} base: Sd ≤ 0.5 m

Colour range:
Cream. Colour variations between panels from different production batches do not constitute a product defect.
The final colour effect is obtained after application of BOLIX SIL / BOLIX SIL Complex paint prepared on the 00_{RIBBED} base.

Packaging:
6 pcs. per package

Shelf life:
2 years – expiry date provided on the packaging

APPROXIMATE COVERAGE*:

Panel size	Approximate coverage
26 cm x 110 cm	6 decorative panels (1 package) / approx. 1.72 m²
26 cm x 200 cm	6 decorative panels (1 package) / approx. 3.12 m²
26 cm x 245 cm	6 decorative panels (1 package) / approx. 3.82 m²
26 cm x 270 cm	6 decorative panels (1 package) / approx. 4.21 m²
26 cm x 300 cm	6 decorative panels / approx. 4,68 m²

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

Coverage depends on the geometry of the decorative panels.

STORAGE:

Store in intact packaging under dry conditions at a temperature between +5°C and +25°C. Protect from exposure to water and sunlight, as well as from overheating and freezing. Store out of the reach of children. The manufacturer shall not be held responsible for physical defects resulting from improper transport conditions or incorrect storage.
Immediately before use, store at a temperature of not less than +15°C.

COMPOSITION:

Resin binder, fine mineral fillers and modifiers.

BOLIX S.A. guarantees the declared quality of the product but has no control over the type of application or the manner in which it is used. BOLIX shall not be held responsible for the work of the Designer or Contractor. All information provided above has been given in good faith, based on the latest knowledge and application technology. It does not replace the professional expertise of the Designer and Contractor and does not release them from the obligation to observe good building practice and occupational health and safety regulations, or to verify and comply with local building standards, fire safety regulations and application guidelines applicable in the country of use. The manufacturer shall not be held responsible for any application that does not comply with local law. Before purchasing and using the product, verify that the product documentation permits its use in accordance with the applicable regulations.

Masz pytania?
Zadzwoń!
801-650-222
Napisz!
serwis@bolix.pl

BOLIX SA
Ul. Stolarska 8
34-300 Żywiec
Tel.33 475 06 00
Fax. 33 475 06 12

Znajdź nas
www.trwaleocieplenie.pl
www.facebook.com/bolixsa
www.bolix.pl