

WARRANTY CERTIFICATE

Roofs



WARRANTY CERTIFICATE

Bravo International Ro SRL grants the following warranty terms regarding the Technical and Aesthetic Characteristics for the covering systems and accessories



Finish Decor Aluminium



Finish Matt



Finish Decor Steel



Finish Glossy



Zinc
($> 0.40\text{mm}$)



Zinc + Prepainted
($< 0.40\text{mm}$)

This guarantee certificate is drawn up and acts in accordance with OUG 140/2021 regarding certain aspects related to contracts for the sale of goods, Ordinance no. 21/ 1992 on consumer protection and Law 296/ 2004 republished in 2008 on the Consumer Code in accordance with the current standards:

Procedure for claiming and granting the guarantee

The claim for warranty in case of claimed defects of the purchased product must be made in writing, enclosing the valid warranty certificate and the purchase invoice. The written claim of non-conformity of the purchased product must be accompanied by the valid warranty certificate and the purchase invoice for the materials. The complained non-conformities must be ascertained by the project fitter, who will send to SC Bravo International Ro SRL (hereinafter BRAVO) the complaint form made available to the complainant by BRAVO.

If the documentation submitted shows that all warranty conditions have been met, BRAVO will send a representative who will determine within 15 days what action, if any, to be taken, and the deadlines for their implementation. To this end, the complainant undertakes to allow representatives of BRAVO access to the products that are the subject of the complaint for verification, repair or replacement purposes.

The complaint should be addressed to: Bravo International Ro SRL, Str. Muncii, nr. 55, Fundulea City, Călărași County, 915200, Romania, Tel.: 004 0374 202 406, Fax: 004 0374 202 407, www.bravo-europa.eu, office@bravo.eu, stating: name, address and telephone number of the owner, proof of purchase and date of purchase, nature of the non-compliance and date it was discovered.

Warranty repair methods.

The following remedies are exclusively granted under this Warranty at BRAVO's sole option: a) repainting of the Products; or b) reimbursement of the cost of repainting or replacement by the Buyer; or c) free replacement of the products (but not their installation).

Bravo's liability is limited by the invoice value of the products from which a depreciation of:

- 18% of the invoice value for one year for products with a 5-year warranty
- 9% of the invoice value per year for products with a 10-year warranty
- 6% of the invoice value per year for products with a 15-year guarantee

Repainting or replacement, carried out under Warranty, does not in any case extend the original Warranty period granted to the original products. BRAVO shall in no event be liable for any costs claimed by third parties who have or will intervene on the products to remedy their defects, unless specifically authorized in writing by BRAVO prior to the performance of any such work.

Conditions for granting the warranty.

The warranty of authenticity of the product is given by the printing on the reverse side of Bravo products with its identification data and product specifications.



BRAVO grants a technical warranty for perforation of material due to corrosion if:

1. the products sold have been transported, stored and used in accordance with the "Instructions for transport, storage and use".
2. the products have been assembled and exposed under normal environmental conditions according to the "Assembly Principles" on the reverse side
3. products for which defects or deformations have occurred in normal operation, from category:
 - a - visible defects reported on receipt of the goods
 - b - paint coating defects (cracks, cracks, peeling) which are apparent on visual inspection and which did not occur during handling, installation, use and maintenance of the products (hidden defect).

BRAVO grants Aesthetic warranty for:

1. defects resulting from discoloration or uneven color change between surfaces that are equally exposed to UV radiation, for products of the same lot. *
2. adhesion of the paint film to the substrate and the appearance of micro-cracks in the paint film.

The aesthetic warranty is granted for the characteristics of the organic coating, subject to the terms of this certificate and within the limits of the warranties, technical data sheets and conditions communicated by the raw material supplier applicable to the batch of material used. In the absence of more favourable conditions expressly stipulated for a specific finish or supplier, the minimum aesthetic evaluation criterion shall be as follows: during the first 5 years from delivery/installation, the colour variation shall not exceed $\Delta E 8$, and gloss retention shall be at least 15%, for surfaces originating from the same batch and exposed under comparable conditions.

The aesthetic warranty does not cover normal differences in shade, gloss or texture between different batches, between new products and products already installed, between areas exposed differently to UV radiation/weather conditions, or between surfaces affected by improper storage, handling, installation, maintenance or exposure to aggressive environments.

The aesthetic warranty is granted in accordance with the warranty provided by the supplier for products exposed to normal environmental conditions, located at a distance of more than 3 km from the coastline and at altitudes of up to 900 m.

The warranty is given according to the corrosion class of the area where the products are installed, classified and described in EN ISO 12944-2:1998:

CLASS	CORROSION LEVEL	ENVIRONMENTAL EXAMPLE (INFORMATIVE)
C 1	Very low	-
C 2	Scăzut	Low air pollution areas, rural areas
C 3	Moderate	Light industrial or urban areas, moderate pollution level
C 4	High	High pollution industrial areas or coastal areas with moderate salinity
C 5-I	Very high (industrial)	Highly industrial areas with high humidity and aggressive atmosphere
C 5-M	Very high (industrial)	Coastal areas with high salinity level

THIS WARRANTY CERTIFICATE IS VALID ONLY: COMPLETED, SIGNED AND STAMPED BY THE PARTNER, THE ROOFER AND BENEFICIARY, IN ORIGINAL, ALONG WITH THE ORIGINAL PURCHASE INVOICE OF THE PRODUCTS THAT ARE THE SUBJECT OF THE WARRANTY.

The warranty offered strictly refers to the products sold and does not cover the warranty for good execution as well as the detection and remedy of defects resulting from faulty assembly.

Warranty exclusion conditions. BRAVO does not provide a guarantee for:

1. accessories other than the original ones recommended and supplied by SC Bravo International Ro SRL are used for assembly.
2. products with mechanical or other deformations resulting from transport, storage, handling and faulty use of BRAVO products, all of which do not comply with the "Transport Instructions, storage and use" on the back.
3. products with deformations or defects resulting from faulty assembly, not in accordance with the "Assembly Principles".
4. the products for which defects and deformations appeared from the category:
 - a - deformations resulting from contact of the products with corrosion agents (acids, animal/bird droppings, earth, copper, wet concrete, mortar, paint, etc.) or with aggressive environments (air with a rich salt content, proximity to a heat source, etc.).
 - b - deformations resulting from storing the products for a long period of time in improper conditions, respectively in unventilated, uncovered spaces, or in permanent and prolonged contact with the water.
 - c - the deformations or defects resulting from cutting the products with an abrasive disc or other cutting tools that produce local heating of the processed product and/or molten metal particles.
 - d - defects determined by oxidation and premature damage caused by the fact that the products were installed without allowing the natural ventilation of the cover, a phenomenon that leads to the appearance condensation on the inner surface of the materials.
 - e - the defects or deformations resulting from the execution of product bending operations at a working temperature lower than -10°C (bending with the help of the machine), respectively +5°C (bending with hand tools).
 - f - the visible defects of the claimed products after their receipt.
 - g - defects caused by not removing the residues from the products, following the assembly work.
 - h - discoloration, color variations or color stability between the painted areas and the rest of the product surfaces that have been treated with touch-up paint.
 - i - zinc oxide (white rust) on the surface of zinc sheet or aluminum zinc are not considered defects.

The warranty period starts from the date of delivery of the products and is conditioned by installation within 3 months.

Transport, storage and use instructions for roof panels

Transport and storage

Roof panels and accessories are transported on wooden pallets to avoid bending and knocking. Store in dry and ventilated spaces, protected from the sun and moisture, away from substances aggressive (eg acids).

The roof panels are stored on wooden pallets. Pallets must be covered, but at the same time ensuring air circulation to prevent condensation. Overlapping is not recommended of more than 2 pallets of 150 tiles each.

Storage of roof panels outside must be temporary, for a maximum period of 72 hours.

Recommendations for handling roof panels

For easy and damage-free lifting of the panels on the roof it is recommended to place two sleepers in the extension of the roof battens to the ground so that the panels will be supported when they are pulled. The tile is always stepped on in the concavity of the undulation

Cutting

Special tinsmithing tools (electric or manual scissors) will be used. Cutting with the angle grinder (flex) is strictly prohibited. The abrasive disc produces excessive heating of the material, burns protective layers and molten metal particles damage the paint. If hot metal particles become embedded in the panel paint, rust will form over time

Cleaning up after cutting

The iron filings resulting from cutting are removed with a soft brush. Touch-up paint is used for pre-painted products to cover accidental scratches and protect chipped areas. Do not use on large surfaces, as color differences may occur.

Installation principles for roof panels

Products must be assembled in accordance with the technical specifications in the installation principles issued by Bravo, in effect at the date of sale

1. Dimensioning of the roof – the installation of the roof panels is carried out after the rainwater collection system has been installed.

a. The length of the metal tile panels is measured between the eaves line and the ridge line, the tile panels being calculated as multiples of 35 cm and 40 cm respectively (one module length).

b. In the case of corrugated metal panels, the material requirement will take into account the fact that the overlap in the vertical direction is 100 mm

c. In the case of pre-folded Click panels, the vertical overlap is 100 mm. If it is necessary to overlap several panels, a difference in length of the panels on the same row of 500 mm will be ensured.

The minimum slope for installation is 14° for metal tiles and corrugated sheet metal, and 10° for Click sheet metal panels.

Prior to the assembly, the protective film is removed from the surface of the roof panels.

2. Roof structure – Anti-condensation film is installed over the rafters or starboard. The foil will cover the wooden bed (support) used for mounting the collection system and the gutter apron. The mounting support is represented by a network of vertical and horizontal slats (which form a ventilated grid).

a. Metal tile panels are installed only on slatted grid. 25x50mm wooden slats will be used, which are fixed above the rafters with nails or wood screws. The distance between the horizontal slats will be depending on the pitch length of the metal tile, 350 or 400 mm.

b. Corrugated sheet panels can be mounted directly on the plank support or on the grid of slats, for ventilated roofs (in which case the distance between the horizontal slats will be a maximum of 400 mm).

c. Click prefab panels can be mounted directly on the board support (in which case it is necessary to use a separation layer between the diffusion film and the roof panels) or on the grid of slats, for ventilated roofs (in which case the distance between the horizontal slats will be a maximum of 200 mm).

3. Installation of roof panels (metal tile and corrugated sheet) – To fix the roof panels, use self-drilling screws 4.8 x 35 mm, respectively 4.8 x 20 mm, painted in the same color as the panels and provided with EPDM rubber gasket. The consumption is 6-7 pcs/m² screws 4.8 x 35 (screws fixing the panel in the wooden support) and 3-4 pcs/m² screws 4.8 x 20 (screws fixing tin elements). Before starting the assembly, it will be verified if the line between the gutter and the ridge is perpendicular. If, following this verification, the opposite is found, the panels will be mounted in such a way that they are perpendicular to the line of the gutter.

a. Metal tile panels are installed from right to left and from bottom to top (from the gutter line to the ridge). The screws are fixed in the concave part of the tile profile, under the embossing area of each module.

b. Corrugated metal panels can be mounted either from right to left or from left to right: vertically, the mounting direction is from bottom to top (from the gutter line to the ridge).

4. Installation of roof panels (pre-folded Click panels) – To fix the panels, flat-head wooden fixing screws 4.2 x 35 mm, respectively self-drilling screws 4.8 x 20 mm for metal, painted in the same color as the panels and provided, with gasket EPDM rubber. The consumption is 6-7 pcs/m² screws 4.2 x 35 (screw fixing the panel in a wooden support with a flat head) and 3-4 pcs/m² self-drilling screws 4.8 x 20 (screws fixing tin elements). Before starting the assembly, it will be verified whether the line between the gutter and the ridge is perpendicular, if following this verification the opposite is found, the panels will be mounted in such a way that they are perpendicular to the line of the gutter. Click prefab panels can be installed either from right to left or from left to right (by turning the panel): vertically, the installation direction is from bottom to top (from the gutter line to the ridge).

Note. Panels with thickness < 0.4mm will not be used for covering/covering.

5. Assembling tin-making elements with a collector role – The tin-making elements with a collector role (dolia, corner edge apron) are mounted before the arrangement of the roof panels and are fixed with clamps, their drilling being prohibited. On one side and on the other of the dolia axis, a height is drawn that will determine the coverage limit (cut) of the roof panels. The corner edge apron is used to collect water on the lateral ends of the roof.

6. Installation of the main accessories – The edge corner is used, together with the edge corner apron (element with collector role), for the lateral closing of the roof. It is fixed over the metal tile and the board bordering the roof and fixed with self-drilling screws at a minimum distance of 600 mm. Ridges: when installing the ridges, the sealing between the tile and them is done using a sealing sponge. Fixing is done with self-drilling screws from module to module on both sides of the ridge, for increased rigidity. In areas with sloping ridges, the intersection between the panels is protected with sealing tape over which the ridge is mounted. The ridge is fixed with screws at the points of tangency with the panels. The snow stoppers are mounted, in the case of roofs with pronounced slopes, at a distance of 70 cm from the lower edge of the roof. The snow stoppers must be installed so that they are fixed in the batten system, not just the sheet metal, to eliminate the risk of them being pulled from the covering surface.

DISTRIBUTOR: _____
(company name, place of work, name and surname of representative, signature and stamp)

BENEFICIARY: _____
(name and surname, address, stamp or CNP)

INVOICE: _____ ROOFER: _____

ASSEMBLY COMPLETION DATE: _____ BENEFICIARY SIGNATURE: _____

AUSTRIA
GERMANY
FRANCE
CZECH REPUBLIC
ROMANIA
BULGARIA
POLAND
HUNGARY
NETHERLANDS

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Management
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ISO 14001:2015

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