

The smart thermal bridge break for your masonry



High Load Capacity



Zero water absorption



REI 120



Custom shape possible



High insulation value



User friendly

Heat loss at the base of the wall, a critical structural junction

The base of a masonry wall is one of the most critical structural junctions in a building. Without a proper thermal break, a direct thermal bridge forms between the interior wall and the foundation, resulting in heat loss, condensation, mold growth, and problems with paint or wallpaper.

"A well-designed construction joint at the base of the wall can prevent problems with paintwork and wall decoration, as well as mold growth"

Stricter energy performance regulations are forcing architects and contractors to manage every aspect of the construction process. At the foundation level, various combinations are currently being used to arrive at an acceptable solution.

Cobristop® performs above average in all respects and offers architects and contractors an easy-to-implement solution for this construction challenge.

Cobristop® the solution

Cobristop® is an innovative, high-density polyurethane element (325 kg/m³) that serves as a base layer while combining the functions of thermal insulation, water-proofing, and high load-bearing capacity. Developed by **Fomicom nv** in collaboration with university and accredited laboratories.



Property	Cobristop®	Benefits for you	Standard
Thermal insulation	$\lambda = 0,065 \text{ W/mK}$	Well below the EPB limit $0,2 \text{ W/m}^{\text{K}}$	NBN EN 12667
Load-bearing capacity ¹	$f_k = 4,3 \text{ N/mm}^2$	Maintain high load capacity	ATG 3350 / EC6
Fire resistance	REI 120	Safety guaranteed	NBN EN 1365-1
Water absorption	0% (nul)	No DPC membrane required	NBN EN ISO 29470
Linear heat transfer	$\Psi_e = -0,03 \text{ W/mK}$	EPB-approved construction joint	EPB-regulations

¹ the characteristic compressive strength of the Cobristop base course in combination with masonry using Group 2 rapid-setting bricks with a compressive strength of $\geq 20 \text{ MPa}$ and M10 masonry mortar.

Areas of application

Cobristop® provides a solution for several critical construction challenges in masonry projects:

-  Wall bases for load-bearing and non-load-bearing masonry - the primary application
-  Roof parapets in brick masonry - for EPB-approved structures
-  Thermal break under window profiles
-  Residential and non-residential buildings up to three stories high
-  Suitable for floor spans up to 8 m and live loads up to 8.0 kN/m^2

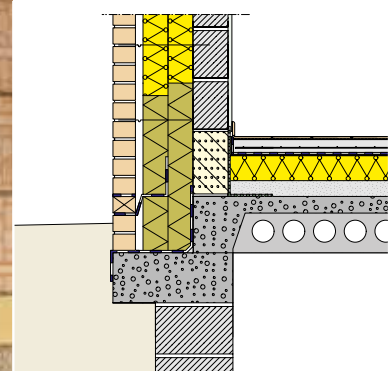
*as set forth in the draft directive:
Cobristop® remains structurally safe with a floor span of 8 m, a permanent load of 8 kN/m^2 , and a variable load of 3 kN/m^2 .*

Easy installation

No special techniques required

Cobristop® is designed for fast and error-free processing on the job site:

-  Place on a stable, level surface
-  Embed between two layers of M10 mortar modified with SikaLatex® or an equivalent bonding agent
-  Recommended joint thickness: 15 mm (above and below the element)
-  No DPC membrane required the element is completely water-repellent
-  Available in widths of 90, 140, and 190 mm for all standard wall thicknesses
-  Lightweight (325 kg/m^3) easy to handle on the construction site
-  Can be cut with a standard circular saw.



Cobristop® is the result of an extensive research process:

Authority	Research / Certificate
TU Eindhoven & Labo Magnel	Comprehensive program: concentric/eccentric compression tests, shear tests, full-height walls
Warringtonfire Gent	Fire test in accordance with NBN EN 1365-1 → result REI 120, REW 120, RE 120
BCCA / SECO	Comprehensive support throughout the research process and ATG certification
ATG 3350	Official issued ATG certificate

Sustainability

Cobristop® eliminates the need for a DPC membrane and has a long service life. After demolition, it can be easily separated by hand from other construction debris and be

reused. Currently, the first collection programs for rigid PU products are also being launched, in which the recovered PU is converted back into reusable raw materials.

Technical Data Sheet : Cobristop®

Product Description

The **Cobristop®** element is a thermal break at the base course and other thermal bridges. It is a high-density polyurethane element used in load-bearing and non-load-bearing masonry to reduce heat loss at the base of

walls, under windows, or along roof edges, and to provide a solution for these construction challenges. It demonstrates superior properties in terms of load-bearing capacity, zero water absorption, fire resistance, and workability.

Properties

Length (mm) (NBN EN 772-16)	450
Width (mm) (NBN EN 772-16)	90 140 190
Height (mm) (NBN EN 772-16)	120
Size discrepancy (mm) (NBN EN 771-2)	TM(+/-3; +/-3; +/-3)
Volumetric mass (kg/m³) (NBN EN ISO 29470)	325
Tolerance Volumetric mass (%)	5
Average compressive strength (50/95 value) (N/mm²) (NBN EN 772-1)	6.5 (1)
Elastic modulus (N/mm²) (NBN EN 1052-1)	240
Dimensional stability (%) (48u, 70°C) (NBN EN 1604)	$\Delta\epsilon_l, \Delta\epsilon_b, \Delta\epsilon_d \leq 0.3$
Thermal conductivity (W/mK) (NBN EN 12667)	0.065
Thermal expansion coefficient $\alpha_m(1/^\circ\text{C})$ (NBN EN 1770)	$53,0 \times 10^{-6}$
Fire resistance test of a loaded wall in accordance with NBN EN 1365-1 (NBN EN 13501-2+A1)	REI 120, REW 120, RE 120

(1) Value with a 12.5% distortion

Ready to get started?

Contact us for technical advice, specifications, or a customized quote.

Technical information

ATG 3350 | TDS | Calculation Guide
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