

ETHERMA BRS

Heating mat for installation in concrete and rolled asphalt



The BRS open-space heating system for installation in concrete and rolled asphalt is used to keep parking garage access ramps, emergency access roads, entrance areas, etc. free of snow and ice. The heating mats are laid on a load-bearing base layer (concrete or asphalt) according to the installation plan.

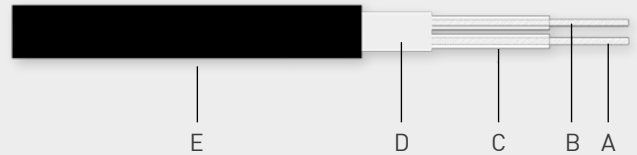
CONCRETE: After laying the heating mats, the concrete is applied – ideally suited for concrete screed, flowing concrete, monolithic concrete, in-situ concrete and even in 3 cm protective concrete.

Laying in a bed of grit is possible under certain conditions. Please contact the ETHERMA technical team.

ASPHALT: After laying the heating mats, the 1st layer of rolled asphalt is applied, spread by hand and compacted. The wear layer is applied in a second work step. The application temperature of the rolled asphalt is 180 °C. The minimum thickness of the asphalt is 6 cm (2 x 3 cm). Grain size of bottom layer: 0 - 8 mm, grain size of top layer: 0 - 8 mm or 0 - 11 mm.

ETHERMA TIP: We produce all connection cables to measure. Upon request, we will take care of the installation and maintenance of your outdoor heating system.

ETHERMA TIP: Project-specific production of the heating mats in various sizes and performances available on request.



- A Heating cable
- B Heating cable
- C Internal insulation fluoropolymer (PFA)
- D Aluminum casing + protective conductor
- E Irradiation cross-linked polyolefin outer insulation

TECHNICAL DATA

- > Voltage: 230, 400 V
- > Output: 240, 300 W/m²
- > Special outputs: 400 W/m²
- > Nominal temperature: Up to 105 °C
- > Temperature-resistant heating cable: 180 °C/45 min
- > Min. installation temperature: - 5 °C
- > Max. bending radius: 5 d
- > Thickness of heating cable: 7 mm
- > IP rating: IP X7
- > Connection cable: 1 x 3 m or 10 m; 3 x 1.5 (2.5) mm²
- > Certification: CE compliant

PRODUCT ADVANTAGES

- + Connection cable made to measure
- + Increased mechanical load capacity
- + Only one connection cable simplifies installation
- + Flexible heating cable
- + Resistant to sweage, acids and alkalis
- + Second layer of rolled asphalt can be applied with the paver

SELECTION GUIDE

BRGS-240 W/m² -For smaller private ramps, driveways, terraces and walkways below 1,000 m above sea level.

BRUS-300 W/m² -For public ramps, driveways and walkways, parking garages, landing fields, etc. below 1,000 m above sea level.

BRAS-400 W/m² -For public ramps, driveways and walkways, parking garages, landing fields, etc. above 1,000 m above sea level.

Heating mat 243-BRGS, 240 W/m², 400 V, IP X7, connection cable 10 m

RG: M5 | LZ: 1 week

| Type | Art. No. | Output [W] | Length, Width [cm] | m ² | Price € |
|------------------|----------|------------|--------------------|----------------|---------|
| 243-BRGS-75-210 | 39466 | 379 | 210 75 | 1.58 | 158.30 |
| 243-BRGS-75-390 | 39468 | 693 | 390 75 | 2.90 | 199.20 |
| 243-BRGS-75-1755 | 39473 | 3165 | 1755 75 | 13.25 | 666.00 |
| 243-BRGS-75-2220 | 39474 | 4000 | 2220 75 | 16.65 | 842.30 |
| 243-BRGS-75-3150 | 39476 | 5657 | 3150 75 | 23.60 | 1195.20 |

| Type | Art. No. | Output [W] | Length, Width [cm] | m ² | Price € |
|------------------|----------|------------|--------------------|----------------|---------|
| 243-BRGS-95-165 | 39600 | 379 | 165 95 | 1.58 | 158.30 |
| 243-BRGS-95-300 | 39602 | 693 | 300 95 | 2.90 | 199.20 |
| 243-BRGS-95-1395 | 39607 | 3165 | 1395 95 | 13.25 | 666.00 |
| 243-BRGS-95-1755 | 39608 | 4000 | 1755 95 | 16.65 | 842.30 |
| 243-BRGS-95-2475 | 39610 | 5657 | 2475 95 | 23.60 | 1195.20 |

303-BRUS heating mat, 300 W/m², 400 V, IP X7, connection cable 10 m

RG: M5 | LZ: 1 week

| Type | Art. No. | Output [W] | Length, Width [cm] | m ² | Price € |
|------------------|----------|------------|--------------------|----------------|---------|
| 303-BRUS-75-150 | 40698 | 346 | 150 75 | 1.15 | 156.00 |
| 303-BRUS-75-280 | 40699 | 632 | 280 75 | 2.11 | 195.20 |
| 303-BRUS-75-1280 | 40704 | 2889 | 1280 75 | 9.63 | 617.10 |
| 303-BRUS-75-1620 | 40705 | 3651 | 1620 75 | 12.17 | 779.80 |
| 303-BRUS-75-2300 | 40706 | 5164 | 2300 75 | 17.21 | 1102.70 |

| Type | Art. No. | Output [W] | Length, Width [cm] | m ² | Price € |
|------------------|----------|------------|--------------------|----------------|---------|
| 303-BRUS-95-120 | 40707 | 346 | 120 95 | 1.15 | 156.00 |
| 303-BRUS-95-220 | 40708 | 632 | 220 95 | 2.11 | 195.20 |
| 303-BRUS-95-1010 | 40713 | 2889 | 1010 95 | 9.63 | 617.10 |
| 303-BRUS-95-1280 | 40714 | 3651 | 1280 95 | 12.17 | 779.80 |
| 303-BRUS-95-1810 | 40715 | 5164 | 1810 95 | 17.21 | 1102.70 |