

CONLIT fire protection of ventilation ducts

Product Datasheet



Ducts are required to have a fire resistance corresponding to the fire sections they pass through. Fire insulated ducts are tested according to the standard DS/EN 1366-1. For example, the overall classification is indicated as: EI60 (ve ho i ↔ o) A2-s1, d0.

The specification in the parenthesis indicates that the product is classified both for vertical and horizontal ducts, as well as for internal and external fire effects. An internal fire effect on ventilation systems occur due to several incoming and outgoing valves in the same fire cell.

The CONLIT range effectively prevents fire spreading via the ventilation system. Circular ducts are effectively insulated with CONLIT FIRE MAT. For rectangular ducts, CONLIT FIRE BOARD is used, but for EI30 CONLIT FIRE MAT can also be used.

CONLIT FIRE MAT and CONLIT FIRE BOARD are designed specifically for fire protection of ventilation ducts.

CONLIT Fire Board

CONLIT Fire Mat for fire protection of rectangular ventilation ducts

Product

ROCKWOOL CONLIT FIRE BOARD is made of non-combustible, moist- and water repellent stone wool. The product is designed to provide maximum fire protection. The front of the product is covered in a black reinforced aluminum foil. The back of the product is uncovered.



Application

ROCKWOOL CONLIT FIRE BOARD is used for fire protection of rectangular ventilation ducts. The product is tested and approved for fire classes EI30 to EI120. The product has also been fire tested according to EN1366-1.

Technical Data

| Area | Value | | | | | | | Standard |
|---------------------------------|--|----|----|-----|-----|-----|-----|--------------------|
| Thermal conductivity λ-value | tm °C | 10 | 50 | 100 | 150 | 200 | 220 | EN 12667/ EN 12939 |
| | mW/m · K | 36 | 41 | 48 | 58 | 68 | 73 | |
| λ-value, calculation | $\lambda(T_m) = 3,345 \cdot 10^{-2} + 1,126 \cdot 10^{-4} \cdot t_m + 2,408 \cdot 10^{-7} \cdot t_m^2$ | | | | | | | |
| Designation code | MW-EN-14303-T2-ST(+)+250 | | | | | | | |
| Max service temperature | 250 °C | | | | | | | EN 14706 |
| Fire classification | A1 | | | | | | | EN 13501-1 |
| Thickness tolerance | T2 | | | | | | | EN 822/EN 823 |
| Water absorption | Short-term water absorption ≤ 1 kg/m ² | | | | | | | EN 1609 |

Assortment

| SAP no. | DB no. | Fire protection | Thickness (mm) | Width (mm) | Length (mm) | Pcs. | Amount m ² | Type |
|---------|---------|-----------------|----------------|------------|-------------|------|-----------------------|--------|
| 255343 | 1985662 | EI30/E60 | 60 | 600 | 1000 | 3 | 1,8 | Pack |
| 258197 | 1988432 | EI60 | 60 | 600 | 1000 | 2 | 1,2 | Pack |
| 255345 | 1985663 | EI30/E60 | 60 | 600 | 1000 | 72 | 43,2 | Pallet |
| 258198 | 1985664 | EI60 | 60 | 600 | 1000 | 80 | 48 | Pallet |
| 258201 | 1985665 | EI90 | 80 | 600 | 1000 | 42 | 25,2 | Pallet |
| 258202 | 1985666 | EI120 | 90 | 600 | 1000 | 36 | 21,6 | Pallet |

CONLIT Fire Mat

CONLIT Fire Mat for fire protection of both rectangular and rounded ventilation ducts

Product

ROCKWOOL CONLIT FIRE MAT is made of non-combustible, moist- and water repellent stone wool. The product is specifically designed to provide maximum fire protection. For products in fire class EI30 the front is finished with a black reinforced aluminium foil and 1" galvanized wire netting. For products in fire class EI60/EI90 the front is finished with a black polyester fleece and 1" galvanized wire netting. The back of the product is uncovered.

and approved for fire classes EI30 to EI90. The product has also been fire tested according to EN1366-1, and can be used for both circular and rectangular ventilation ducts.



Application

ROCKWOOL CONLIT FIRE MAT is used for fire protection of ventilation ducts. The products are tested

Technical Data

| Area | Value | | | | | | | Standard |
|---------------------------------|--|----|----|-----|-----|-----|-----|--------------------|
| Thermal conductivity λ-value | tm °C | 10 | 50 | 100 | 150 | 200 | 220 | EN 12667/ EN 12939 |
| | mW/m · K | 35 | 40 | 47 | 66 | 66 | 70 | |
| λ-value, calculation | $\lambda(T_m) = 3,345 \cdot 10^{-2} + 1,126 \cdot 10^{-4} \cdot t_m + 2,408 \cdot 10^{-7} \cdot t_m^2$ | | | | | | | |
| Designation code | MW-EN-14303-T2-ST(+)250 | | | | | | | |
| Max service temperature | 250 °C | | | | | | | EN 14706 |
| Fire classification | A1 | | | | | | | EN 13501-1 |
| Thickness tolerance | T2 | | | | | | | EN 822/EN 823 |
| Water absorption | Short-term water absorption ≤ 1 kg/m ² | | | | | | | EN 1609 |

Assortment

| SAP no. | DB no. | Fire protection | Thickness (mm) | Width (mm) | Length (mm) | Pcs. | Amount m ² | Type |
|---------|---------|-----------------|----------------|------------|-------------|------|-----------------------|--------|
| 258264 | 1985423 | EI30/E60 | 50 | 600 | 4500 | 1 | 2,7 | Roll |
| 234101 | 1985573 | EI30/E60 | 50 | 1000 | 3800 | 1 | 3,8 | Roll |
| 258266 | 1985439 | EI30/E60 | 60 | 600 | 3200 | 1 | 1,92 | Roll |
| 234136 | 1985395 | EI30/E60 | 60 | 1000 | 3200 | 1 | 3,2 | Roll |
| 258371 | 1985445 | EI60/EI90 | 80 | 600 | 2500 | 1 | 1,5 | Roll |
| 258721 | 1985401 | EI60/EI90 | 80 | 1000 | 2200 | 1 | 2,2 | Roll |
| 258261 | 1985587 | EI30/E60 | 50 | 600 | 4500 | 18 | 48,6 | Pallet |
| 234070 | 1985578 | EI30/E60 | 50 | 1000 | 3800 | 9 | 34,2 | Pallet |
| 258265 | 1985588 | EI30/E60 | 60 | 600 | 3200 | 18 | 34,56 | Pallet |
| 234133 | 1985233 | EI30/E60 | 60 | 1000 | 3200 | 9 | 28,8 | Pallet |
| 258374 | 1985589 | EI60/EI90 | 80 | 600 | 2500 | 18 | 27 | Pallet |
| 258723 | 1985591 | EI60/EI90 | 80 | 1000 | 2200 | 9 | 19,8 | Pallet |

For EI30 use a 50-mm mat for circular ducts and a 60-mm mat for rectangular ducts.

Quality assurance

ROCKWOOL A/S has a quality assurance system certified in accordance with DS/EN ISO 9001.

ROCKWOOL A/S is a member of VIF (Dansk forening af fabrikanter af varmesoleringsmaterialer).

ROCKWOOL products are CE-certified.

ROCKWOOL A/S reserves the right to alter or amend the technical specifications of ROCKWOOL products without notice as they are under constant improvement. ROCKWOOL A/S has acceded to the clause for deliveries for building projects in Denmark.



ROCKWOOL A/S

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