

DATASHEET

Okaphone 4 for tiles

Insulating board

- uncoupling and sound deadening board
- only 4 mm thick (5/32")
- insulating properties
- reduces step sound by 9 dB*
- over existing radiant heat floors
- under heated coils, heating mats
- glue down engineered wood and parquet**
- will not deteriorate
- flexible and sturdy
- easy to install
- can be cut, scored, sawn
- contributes to LEED - 98 % of post-consumer recycled content



PRODUCT DESCRIPTION

Solid, high-density polyester fibre board with synthetic resin binding compound as a tension separator between substrate and appropriate ceramic and natural coverings. Can be installed over old substrates such as cement or calcium sulphate screed after crack formation or over flexible interior substrates on walls and floors. For new construction and renovation purposes with minimum height impact. Reduces step sound by 9 dB according to certificate. ** For glue down engineered wood and parquet please refer to Kiesel TDS from Wood floors section.

SUBSTRATE PREPARATION

The substrate must be dry, fully cured, sound and clean. Suitable substrates are concrete screed, OSB board, plywood (mechanically fastened), plaster, brick, stone, steel and ceramics. Level uneven substrates with **Servofix**, **Servoplan** or **Servocret** self-leveling underlayment before installing the insulating board. Use the fiber reinforced leveling compound **Servoplan S 444** if the substrates not dimensional stable (OSB Board, plywood).

Concrete, cementitious substrates prime with **Okatmos® UG 30** with accordance to Kiesel TDS. Wood composite substrates prime with **Okatmos® UG 30** and/or **Okapox GF** with accordance to Kiesel TDS. Wet areas, for example: bathrooms, washrooms with nominal moisture content, waterproofing membranes may be required. Use **Okamul DF**, **Servoflex DMS 1K Plus SuperTec** or **Servoflex DMS 1K-schnell SuperTec**. Please contact Kiesel Technical Department.

Only for use with stoneware and heavy natural coverings. Porcelain tiles with minimum thickness of 8 mm (5/16"). Natural stone only, with flexural strength of 1500 N/mm² and minimum thickness of 15 mm. Tile format shall not be less than 100 cm² min. to 2400 cm² max. (Tile size e.g. 10 x 10 cm to 40 x 60 cm (4"x4"-15"x23").

**Please contact Kiesel Technical Department if you consider other covering materials and sizes.

PROCESSING

Dry lay **Okaphone 4** uncoupling boards loosely staggering every sheet and connecting joints so that they fit tightly. Cut or saw board with a circular saw, jig saw or sheet rock knife. Then take boards out from the center and install with **Servoflex K-Schnell SuperTec**, **Servoflex-Trio-schnell SuperTec**, **Servoflex-Trio-SuperTec** by using a 6 - 8 mm square notched trowel (1/4"x1/4"x1/4") providing a coverage of approx. 1.6 - 2.2 kg m² (approx. 130 ft² per 44lbs bag). Please contact the Kiesel Technical Service Department if you want to use other adhesives. Insert boards within approx. 15 to 20 minutes and press firmly.

Before the installation fill out the required wall distance at the edge connectors for the connection to emerging construction elements (5-7 mm or 3/16"-5/16"). Use generic screed sealing strips (e.g. seal gasket) for this purpose and cut the excess only after grouting is completed.

After the thin bed mortar has hardened cover the board joints with 20 mm (3/4") generic masking tape to prevent the mortar from filling existing joints.

Kiesel thinset drying time under Okaphone 4:

Servoflex K-Schnell SuperTec	min. 8 hours ***	before tile/heated coils, heating mats installation
Servoflex-Trio-schnell SuperTec	min. 8 hours ***	before tile/heated coils, heating mats installation
Servoflex-Trio-SuperTec	min. 12 hours ***	before tile/heated coils, heating mats installation

Install coverings with a thin bed mortar such as **Servoflex K-Schnell SuperTec**, **Servoflex-Trio-schnell SuperTec** and **Servoflex-Trio-SuperTec**. Full mortar transfer is required.

Pre-installation priming or underlayment procedures are not required. Ensure an even distribution of the mortar.

Grouting can begin approx. 8 hours after an application of **Servoflex K-schnell SuperTec**, **Servoflex-Trio-schnell SuperTec** and approx. 12 hours when **Servoflex-Trio-SuperTec**. Use a flexible grouting compound such as **Servoperl royal** or **Servoperl royal schnell**.

Heating coils installation procedures:

Install coils per manufacture specifications. To embed coils use **Servoplan S 444** or **Servoflex K-schnell SuperTec**, **Servoflex-Trio-SuperTec**, **Servoflex-Trio-fast SuperTec** in thickness not exceeding 5 mm (3/16"). Start setting tiles within:

Servoplan S 444	min. 4 hours ***	before tile installation
Servoflex-Trio-schnell SuperTec	min. 4 hours ***	before tile installation
Servoflex-Trio-SuperTec	min. 12 hours ***	before tile installation

Heating mats installation procedures:

Install mats per manufacture recommendations. To install mats and tiles use **Servoflex K-Schnell SuperTec**, **Servoflex-Trio-SuperTec**, **Servoflex-Trio-schnell SuperTec**. Kiesel doesn't recommend installation of tiles immediately after fixing electrical mat into place. Please look at table above concerning recommended waiting time.

Heated surface can be fully operational after approximately 4-7 days subsequently to grouting. Always set the temperature on your controls gradually.

SPECIFICATIONS

Color	white
Application	interior, walls and floors
Format	100 x 60 cm = 0,6 m ² (39.37"x23.6"=6.45 ft ²)
Thickness	approx. 4 mm (5/32")
Weight	ca. 2.8 kg / m ² (6.2 lbs. per 10 ft ²)
Thickness	approx 4 mm
Sound deadening properties	* with tile coverings and full mortar transfer approx. 9 dB according to EN ISO140-8
Thermal conductivity	approx. 0,05 W/mk (R=0,02 ft ² h °F/btu) according to DIN 52 612 / R-Value North American Standards
Thermal transition coefficient (U-Value)	23,81 W / m ² K (4.176 btu/ft ² h °F) according to DIN EN 12667 and North American Standards
Fire classification	B2
Floor heating system	suitable
Storage	dry and lying on a level surface
Disposal	cuttings with household or commercial waste

TOOLS

Circular saw, jig saw or sheet rock knife
6 or 8 mm square-notched trowel

PACKAGING

Product description	Item no.	Item no.
10 boxes with 15 boards = 90 m ² (968 ft ²)	60170	4015705601700

The aforementioned information, especially the proposals for processing and utilizing our product, is based on our knowledge and experience. We recommend that you carry out your own tests in every case to ensure the suitability of our products for the intended process and processing purposes because of the different materials and the working conditions which lie beyond our area of influence. No liability can be derived from this advice or from verbal advice, unless we are responsible for (criminal) intent or gross negligence in this respect.

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