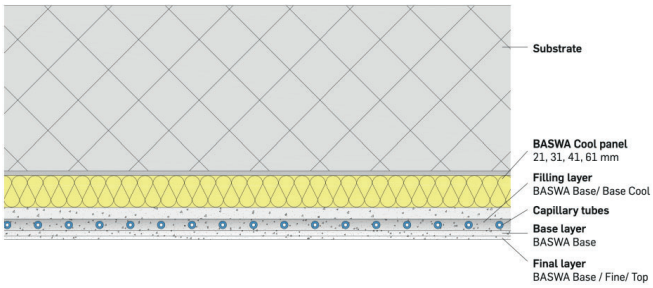
ACOUSTIC PLASTER CEILING BASWA Cool

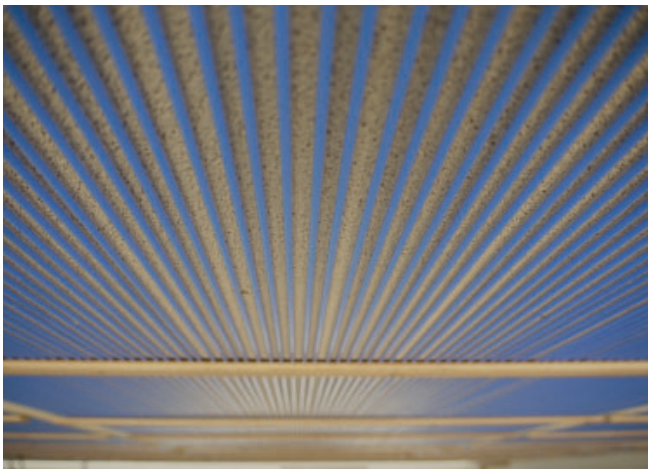
Multi-layer system with integrated capillary tube mat ORIMAT G 10.00

System data sheet

BASWA acoustic® System partner

ROLEX LEARNING CENTER LAUSANNE © CLINA HEIZ- UND KÜHLELEMENTE GMBH





CLINA - BETTER HEATING AND COOLING

ACOUSTIC PLASTER CEILING BASWA Cool

Multi-layer system with integrated capillary tube mat ORIMAT G 10.00

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DESCRIPTION

- BASWA Cool acoustic panels are glued to a concrete or a suspended gypsum board ceiling, grouted and after the drying process made flat and even
- the capillary tube mats are connected to each other by heating element socket welding
- the capillary tube mats (mat distributor pipes) are fixed and tightened underneath the acoustic panel
- the hydraulic connection of the capillary tubes to the supply and return lines is made by heating element socket welding, then the leak test according to the Clina guide lines takes place
- BASWA Phon acoustic panels are added in the edge area as well as in the riser zones, grouted and after the drying process made flat and even
- then a BASWA Base/Base Cool filler is sprayed on the capillary tube mats (approx. 4-5 mm) and a covering layer (0,7 mm) with the same acoustic plaster;
- after the respective drying processes the surface is again made flat and even
- BASWA final coating is applied, which is available in three variations and many different colours

ADVANTAGES

ACOUSTIC & THERMAL FUNCTION

High-quality combination for maximum room comfort.

SUITABLE FOR MANY ARCHITECTURAL DESIGNS

Suitable for horizontal, inclined, vertical surfaces and simple vaults made of concrete or gypsum board.

JOINTLESS UP TO 500 m²

Up to 500 m² on plane jointless concrete surfaces or 150 m² on gypsum board.

EXCELLENT PERFORMANCE VALUES

Excellent broadband sound absorption as well as high heating/cooling capacity thanks to low mineral acoustic plaster coverage with good thermal conductivity and close to the surface position of the capillary tubes.

TECHNICAL DATA

HEATING CAPACITY
according to DIN EN 14037/2

117,7 W/m²
ΔT = 15 K, active mat surface

COOLING CAPACITY
according to DIN EN 14240

100,8 W/m²
ΔT = 10 K, active mat surface

ACOUSTICS

weighted sound absorption coefficient

up to α_w **= 0,65** (Class C)

INSTALLATION HEIGHT: **30, 40, 50** or **70 mm**, depending on type of BASWA Cool acoustic panel

SYSTEM WEIGHT (filled with water): **24 kg/m²** up to **28 kg/m²**, depending on type of BASWA Cool acoustic panel
BUILDING MATERIAL CLASS: B-s1-d0 (according to DIN EN 13501-1)

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT	polypropylene (PP-R), recyclable	mat distributor pipe: 20 x 2,0 mm capillary tube: 3,4 x 0,55 mm distance of the capillaries: 10 mm	designation: ORIMAT G 10.00 weight (incl. water): ca. 740 g/m² open mat distributor pipes pressure stage: PN 10
SUPPLY & RETURN LINES	polypropylene (PP-R), recyclable	depending on room size	connection alternating according to Tichelmann principle
BASWA Fix C or K	cementitious adhesive mortar C) gypsum adhesive filler (K)	2 mm	first layer on the concrete (C) or dry construction panel made of gypsum or Fermacell (K)
BASWA Cool ACOUSTIC PANEL	see www.baswa.com	21/31/41/61 mm	the capillary tube mat is attached to or underneath the acoustic panel
BASWA Phon ACOUSTIC PANEL	see www.baswa.com	21/31/41/61 mm	for edge areas and rizer zones
BASWA BASE/ BASWA BASE COOL	see www.baswa.com	4-5 mm filler plus 0,3/0,5/0,7 mm base coat	filler layer is sprayed on
BASWA FINAL COATING	see www.baswa.com	0,3/0,5/0,7 mm	Top (0,3), Fine (0,5) or Base (0,7) standard colour ~ NCS S 0500-N

CONTACT

Clina Heiz- und Kühlelemente GmbH
Eichhorster Weg 80 | 13435 Berlin

Fon: + 49 30 402054 – 0
Fax: + 49 30 402054 – 19

www.clina.de
info@clina.de