

Rigitone for acoustic plaster

Acoustic plaster solutions with Asona

Rigitone for acoustic plaster
12-20 / 66 and 12 / 25 Q



The Original. For space to live.



Acoustic plaster solutions with Asona



Perfect synergy: Rigitone acoustic boards for on-site plaster coating

An acoustic plaster coating can be machine-applied to selected Rigitone acoustic boards on site, permitting new surface finishes. The combination of these two materials offers good acoustic properties and above all new options for modern room design.

Product properties

Modern acoustic plasters regulate room climate and are eco-friendly. Their low weight has no structural impact and the wide range of purely mineral colours corresponding to the RAL and NCS colour charts offers a broad design scope.

Reaction to fire

The plaster coating has a building material classification of A2 (non-combustible in accordance with DIN EN 13964).

Application

The plaster coatings are machine-applied in one layer.



12-20 / 66 R

Rigitone

Staggered round perforation

Width x length: 1,250 x 2,000 mm

Perforated area: 16.8 %



Sonacoustic G „PL“

Layer thickness for ceilings: max. 2 mm

Weight: 3.5 kg/m²/cm

Sound absorption in accordance with EN ISO 354 (see product pages)

Sonacoustic G „CL“

Layer thickness for ceilings: max. 2 mm

Weight: 3.5 kg/m²/cm

Sound absorption in accordance with EN ISO 354 (see product pages)



12 / 25 Q

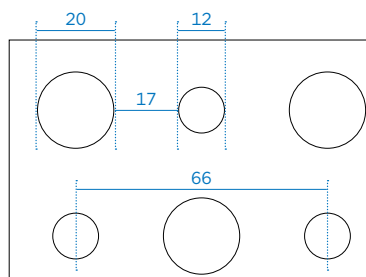
Rigitone

Regular square perforation

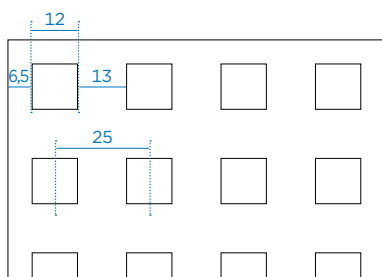
Width x length: 1,250 x 2,000 mm

Perforated area: 19.2 %

Rigitone for acoustic plaster
12-20/66 R



Rigitone for acoustic plaster
12/25 Q



Rigitone for acoustic plaster
Chamfered square transverse edge



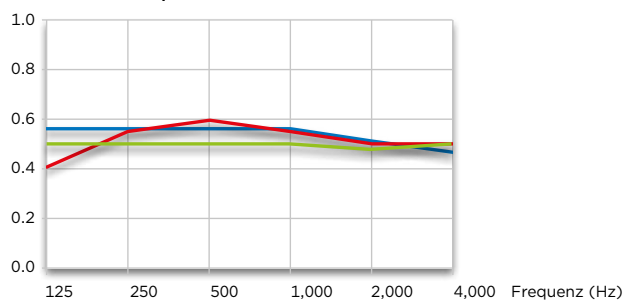
Rigitone for acoustic plaster
VARIO longitudinal edge



	Rigitone for acoustic plaster 12-20/66 R	Rigitone for acoustic plaster 12/25 Q
System number	AD10RTP	AD10RTP
Board thickness in mm	12.5	12.5
Size in mm	1,250 x 2,000	1,250 x 2,000
Weight kg/m²	ca. 8.5	ca. 8.0
Perforated area in %	16.8	19.2
Centre-to-centre distance between support profiles in mm	≤ 400	≤ 400
Reaction to fire (board)	A2-s1, d0 (C.4)	A2-s1, d0 (C.4)
Reaction to fire (board) in acc. with test	A2	A2
Glass mat on the front side*	optional	optional
PE-Film on the reverse*	recommended	recommended

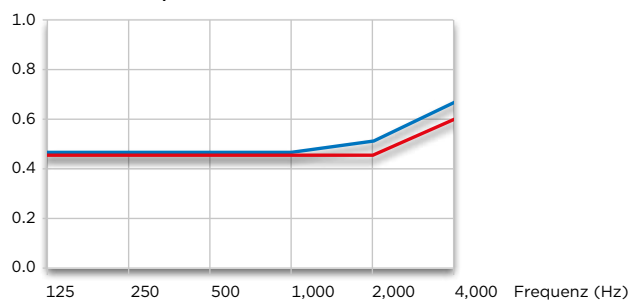
* Rigitone perforated boards for on-site acoustic plaster coating

Sound absorption coefficient α_p (Rigitone 12-20/66 R) for acoustic plaster



	α_w	class
— Plenum depth: 50 mm, mineral wool layer: 50 mm without film	0.40 0.55 0.60 0.55 0.50 0.50	0.55 D
— Plenum depth: 200 mm, mineral wool layer: 50 mm without film	0.55 0.55 0.55 0.55 0.50 0.45	0.55 D
— Plenum depth: 200 mm, mineral wool layer: 50 mm without film	0.50 0.50 0.50 0.50 0.45 0.50	0.50 D

Sound absorption coefficient α_p (Rigitone 12/25 Q) for acoustic plaster



	α_w	class
— Plenum depth: 200 mm, mineral wool layer: 20 mm without film	0.45 0.45 0.45 0.45 0.45 0.60	0.45 D
— Plenum depth: 200 mm, mineral wool layer: 30 mm without film	0.45 0.45 0.45 0.45 0.50 0.65	0.50 D



Fastening

3.5 x 30 mm Rigitone perforated panel screws should be attached at intervals ≤ 170 mm. The short edges of the Rigitone boards should be fastened first, then the longitudinal edges.

! Rigits note

Rigitone boards for on-site plastering generally have a VARIO edge. Rigitone acoustic boards with square edges may be joined using the Joint Filling or Adhesive Joint Techniques.

The relevant processing guidelines must be observed.

Filling

Edges and screw heads should be filled with VARIO joint filler. It is critical that joints are filled cleanly as any unevenness cannot subsequently be eliminated due to the acoustic plaster.

Further processing

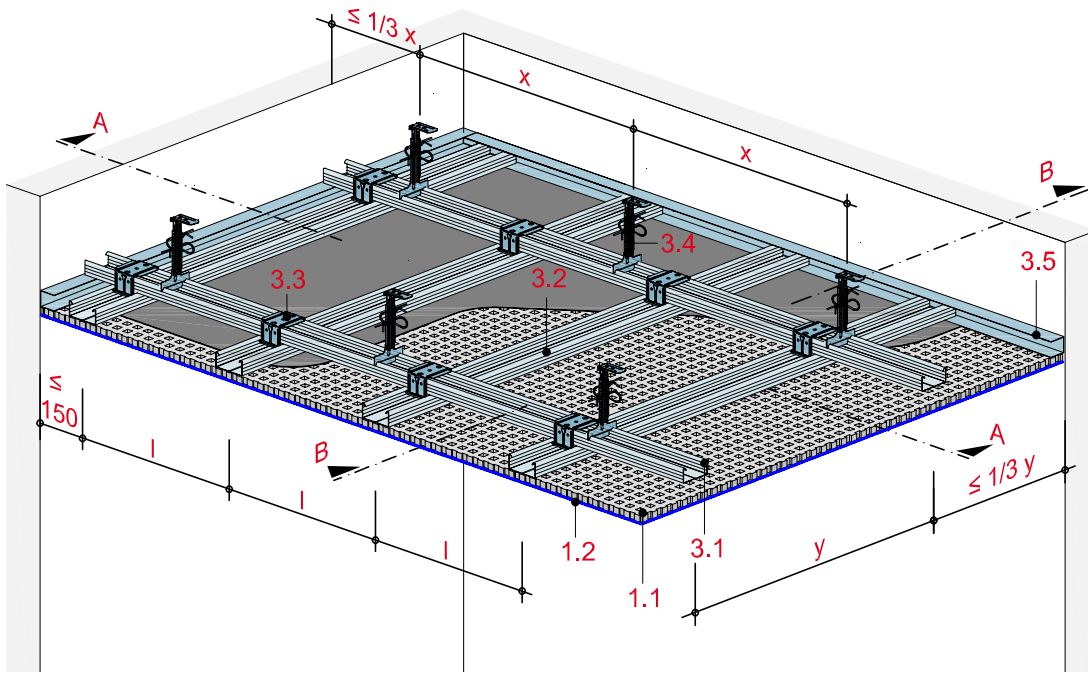
Once the boards have been fully installed, the glass mat can be laminated onto them in situ and the acoustic plaster then applied in accordance with the specifications of the acoustic plaster manufacturer.

If the glass mat has already been laminated onto the boards at the manufacturing stage, the acoustic plaster can be applied directly.

Mat type

Glass-fibre mat 45 - 55 g/m².

The acoustic plastering work should be carried out by a qualified specialist and/or in accordance with the manufacturer's instructions.



Intervals

Interval between hangers: ≤ 900 mm (≤ 250 mm to the edge of the ceiling).

Interval between base profiles: $\leq 1,000$ mm

Interval between supporting profiles: ≤ 333 mm

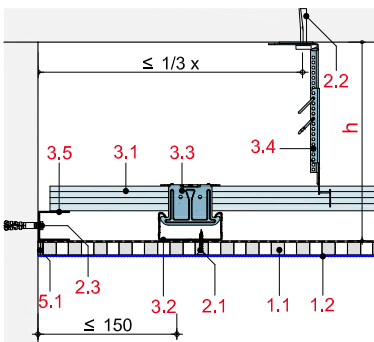
Board installation

Rigitone boards with acoustic plaster should be installed consecutively ≥ 333 mm. The longitudinal edges should be butt jointed and filled with Rigips glass-fibre reinforcement strips and VARIO joint filler. The transverse joints should have a gap of 4 mm and be filled with VARIO joint filler.

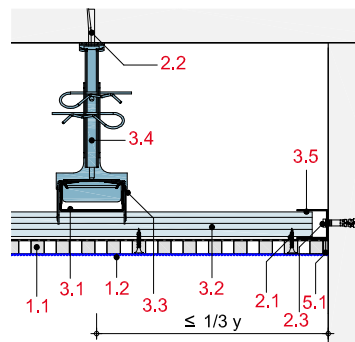
Substructure

The substructure, comprising base and supporting profiles (CD profiles), should be aligned in such a way that the Rigitone boards can be installed and fastened at right angles to the supporting profiles. There must always be a supporting profile at the transverse joints of the boards.

Longitudinal VARIO edge joint



Transverse edge joint with 4 mm gap



- 1.1 Rigitone for acoustic plaster
- 1.2 Acoustic plaster
- 2.1 Rigitone perforated panel screws
- 2.2 Ceiling dowel
- 2.3 e.g. nail dowels
- 3.1 Base profiles: RigiProfil MultiTec CD 60/27 ceiling profiles
- 3.2 Supporting profiles: RigiProfil MultiTec CD 60/27 ceiling profiles
- 3.3 Profile connectors: Rigips crossover fast connector
- 3.4 Hangers: nonius hangers
- 3.5 Rigips UD 28 U-joint profile
- 5.1 e.g. VARIO joint filler
- 5.2 VARIO joint filler with glass-fibre reinforcement strips or Rigips TrennFix according to the processing guideline

1st edition, April 2017

All details in this publication are aimed at trained -specialists and equate to the state of the art. They are correct to the best of our knowledge but do not -represent any guarantees. We endeavour to provide you with the best possible solutions at all times and therefore reserve the right to make changes as a -result of application or production improvements. No illustration of activities being performed may be deemed to constitute a set of instructions for performance unless expressly indicated as such. Please note that the information provided cannot replace any -specialist structural planning that may be necessary. We assume that related tasks are properly executed.

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