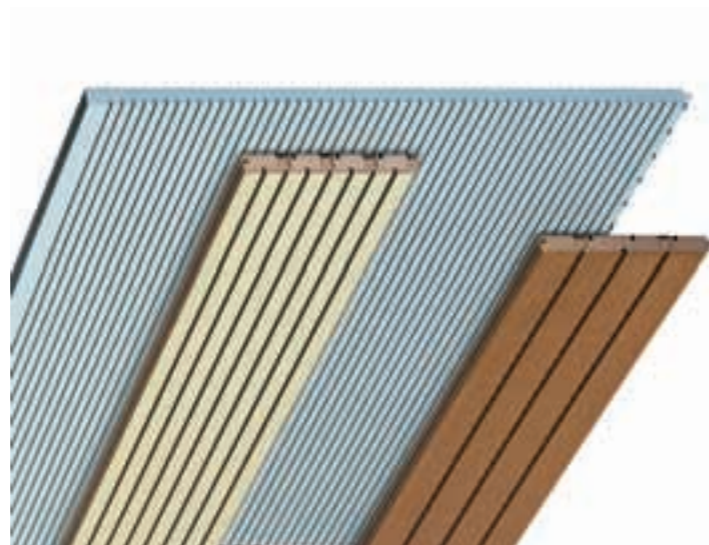


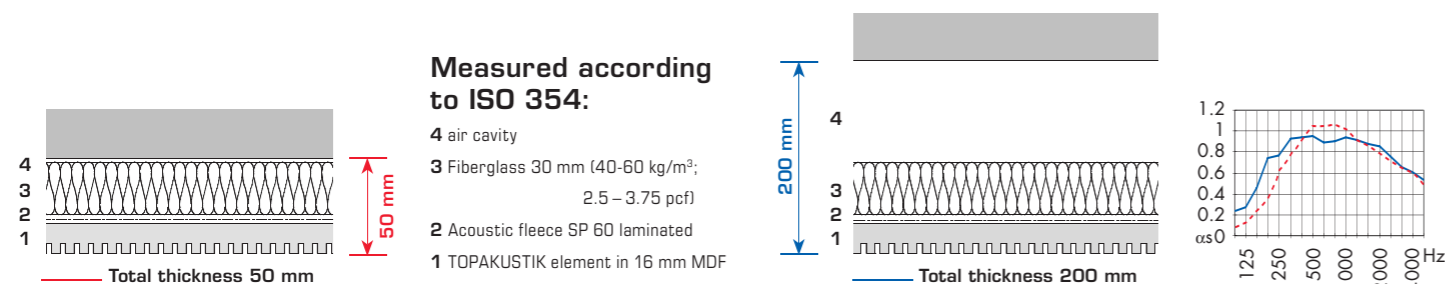
# TOP(A)K(U)S(T)I(K)<sup>®</sup>

The refined acoustic system for wall and ceiling finishes. Many different groove patterns are available. Narrow spaced grooves appear as a textured surface (4/4, 5/3, 6/2, 9/2) – wider spaced grooves can be seen individually by the eyes (12/4, 13/3, 14/2, 28/4). Thanks to the rear perforation pattern, the core panel remains structurally intact allowing for cutouts (programmed or field performed) to address penetrations required for lighting, HVAC and sprinkler systems.

Please note: Walls finished with lighter veneers (maple, birch) or lighter paint (white) can have a visually disturbing effect (flickering-Moiré Pattern) from the light to dark contrast from the face surface to the grooves. In these areas we recommend using the TOPAKUSTIK designs with 2 mm wide groove e.g. type 9/2 or 14/2 and/or using darker veneers or darker paint colors to minimize this effect.



## THE ACOUSTIC SYSTEM



All TOPAKUSTIK types are available with M and T perforations on the rear. This makes it possible for acousticians to match the TOPAKUSTIK surface treatment with the required absorption. The absorption coefficients stated in this brochure were measured according to the ISO 354 standard and are set up as described above. Additional absorption coefficients with other cavity depths and other porous materials in the air cavity (e.g. only fleece, melamine resin foam, etc.) are listed in the TOPAKUSTIK / TOPPERFO sound absorption document.

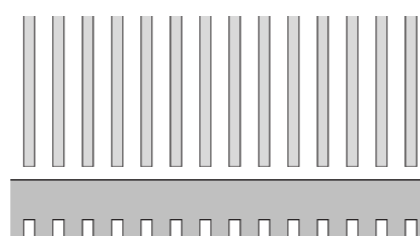
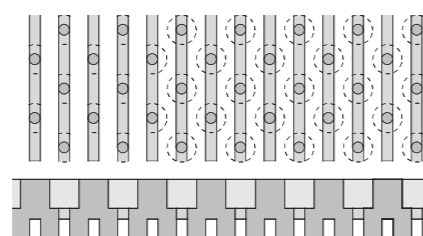
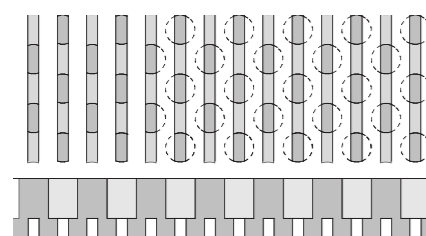
**M-Perforation:** For absorption in the medium to high frequency range. TOPAKUSTIK products with M-Perforation are suited for applications in which the reverberation time is to be lowered across a broad frequency band.

The sound absorption of our products is measured in a reverberation room in accordance with DIN ISO 354:1985. This provides the  $\alpha_s$  (alpha) values either listed in tabular form or plotted on a chart. You can find such charts in the descriptions of the individual products. The  $\alpha_w$  value given in the table is the weighted sound absorption level that is calculated using a standardized method. The classification into Euroclasses A, B, C, D and E is calculated and derived from the  $\alpha_w$  value (A = highest absorption capacity). The NRC (noise reduction coefficient) is the value specified according to the US standard. Behind each  $\alpha_w$  value are the letters L, M and/or H to indicate if the sound absorption of the product is greater than 0.25 in a specific frequency range. L is for low or 250 Hz, M is for mid or 500 or 1000 Hz, and H is for high or 2000 or 4000 Hz.

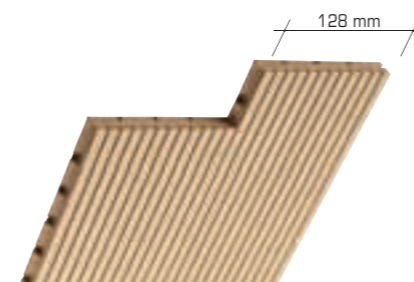
$\alpha_w$	Euro	NRC
0,80 M	B	0,88
0,75 M	C	0,87

**T-Perforation:** For absorption in the low to medium frequency range. The high absorption in the low-frequency range is based on the combination of small holes on the visible side and larger holes on the rear.

**Reflectors:** TOPAKUSTIK products can also be used as reflectors by eliminating the perforations on the rear surface. The absorption figures are then equivalent to those of a standard reflecting panel.



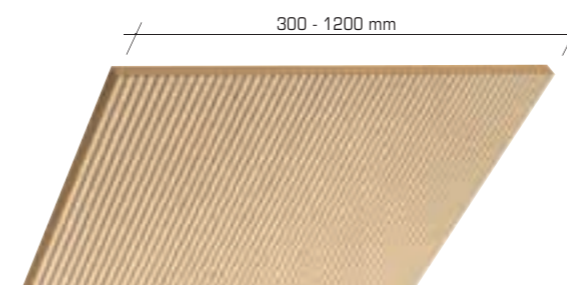
## DIMENSIONS AND MATERIALS



### Planks

Thanks to the precise tongue and groove connection, planks result in an attractive surface with a joint-free appearance, because the connecting joint matches the dimension of the grooves. The planks permit simple and flexible assembly. They can be installed by stapling to a timber batten or clamping to a T-bar with TOPAKUSTIK clips. (Assembly p. 24)

Fire category B2 (CH 4.3)			Fire category B1 (CH 5.3)			Fire category A2 (CH 6q.3)	
Paint 16 mm	Wood Veneer 17 mm	Melamine 16 mm	Paint 16 mm	Wood Veneer 17 mm	Melamine 16 mm	Paint 16 mm	Wood Veneer 17 mm
ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm
2780 x 128	2780 x 128	2780 x 128	2780 x 128	2780 x 128	2780 x 128		
3640 x 128	3640 x 128					3080 x 128	3080 x 128
4080 x 128	4080 x 128	4080 x 128	4080 x 128	4080 x 128	4080 x 128		



### Panels

Panels are used for removable or fixed ceilings and walls with visible joints. Panels can be provided with a number of different edges (p. 22) and are also suited for cabinet fronts and room dividers.

Fire category B2 (CH 4.3)			Fire category B1 (CH 5.3)			Fire category A2 (CH 6q.3)	
Paint 16 mm	Wood Veneer 17 mm	Melamine 16 mm	Paint 16 mm	Wood Veneer 17 mm	Melamine 16 mm	Paint 16 mm	Wood Veneer 17 mm
max. in mm	max. in mm	max. in mm	max. in mm	max. in mm	max. in mm	max. in mm	max. in mm
3640 x 1216	3640 x 1216	3640 x 1216	3640 x 1216	3640 x 1216	3640 x 1216	3080 x 1216	3080 x 1216
ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm	ideal: in mm
2040 x 992 / 640	2040 x 992 / 640	2040 x 992	2040 x 992	2040 x 992	2040 x 992	1540 x 608	1540 x 608
2780 x 992 / 640	2780 x 992 / 640	2780 x 992	2780 x 992	2780 x 992	2780 x 992	3080 x 608	3080 x 608
3640 x 640	3640 x 640						

ideal = means optimal use of MDF core – custom lengths are also available  
 B2/B1/A2 Fire category Page 18/19  
 Page 20/21

Date 1/2009 – please check the current dimensions on [www.topakustik.ch](http://www.topakustik.ch)



### Interrupted grooves:

With panels, the grooves can be interrupted. The distance can be chosen as required.