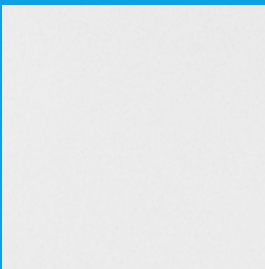


# ***KNAUF***

## ***MEDIGUARD Acoustic***



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MEDIGUARD Acoustic combines excellent cleanability with good levels of sound absorption. Its superior anti-microbial performance and disinfectants resistance, as well as scratch resistance and water repellency make it an ideal solution for healthcare applications.

- Water repellent
- Scratch resistant
- Limit growth of an extended scope of bacteria & fungi
- Resistant to disinfectants, it can be scrubbed and cleaned with steam
- Complies with Zone 4 risk requirements according to NF S 90-351:2013
- Excellent light reflectance (88%)
- Ideal for healthcare facilities, food industry, laboratories, etc.

## ***Build on us.***

Characteristics		Detailed information						
Edge details		<b>Board</b> 	<b>Tegular 24/90</b> 		<b>Tegular 15/90</b> 			
Thickness (mm)		19	19		19			
Dimensions (mm)		600 x 600 1200 x 600	600 x 600 1200 x 600		600 x 600 1200 x 600			
System		Exposed demountable – System C						
Weight		<b>5.0 kg / m<sup>2</sup></b>						
Colour		 White						
Sound absorption		EN ISO 354 $\alpha_w = 0.65(\mathbf{H})$ as per EN ISO 11654 - <b>Class C</b>						
		Frequency f (Hz)	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>
		$\alpha_p$	0.40	0.40	0.60	0.80	0.90	0.85
		NRC = <b>0.70</b> as per ASTM C 423						
Sound attenuation		EN ISO 10848-2 $D_{n,f,w} = \mathbf{38 dB}$ as per EN ISO 717-1		CAC = <b>39 dB</b> as per ASTM E 413-10				
Sound reduction		EN ISO 10140-2 $R_w = \mathbf{22 dB}$ as per EN ISO 717-1						
Fire reaction		Euroclass <b>A2-s1, d0</b> as per EN 13501-1 <b>Class A</b> as per ASTM E 84						
Light reflectance		<b>88%</b>						
Thermal conductivity		$\lambda = \mathbf{0.060 W/mK}$ as per EN 12667						
Air permeability		<b>PM1</b> ( $\leq 30 \text{ m}^3/\text{hm}^2$ ) as per DIN 18177						
Humidity resistance		<b>95% RH</b>						
Clean room		<b>ISO 4</b> as per EN ISO 14644-1						
Risk level		<b>Zone 4</b> (Very High Risk) as per NF S 90-351:2013						
Microbiological Cleanliness		<b>M1</b> as per NF S 90-351:2013						
Kinetics of particle decontamination		<b>CP<sub>(0.5)</sub>5</b> as per NF S 90-351:2013						
Indoor air quality		 <b>A+</b>	 <b>E1</b>	 <b>IACG</b>				
Cleanability								
Anti-microbial characteristics		Tested against: Escherichia coli, Staphylococcus aureus, Bacillus cereus, Streptococcus pneumoniae, Acinobacter baumannii, Klebsiella pneumoniae, Candida albicans, Aspergillus brasiliensis						
Sustainability		 <b>35%</b> (2023)	 <b>BIOSOLUBLE WOOL</b> EC 1272/2008 Annex G					

In addition to risk level, each room type will have specific requirement for the cleanability and air leakage of the ceiling tile. Therefore, a tile which meets risk zone 4 requirements may not necessarily be suitable for all room types defined in risk zone 4. Product availability may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit [www.knauf.com](http://www.knauf.com)