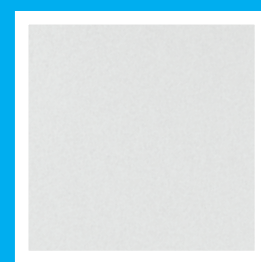




SK LUVN SNP Hospital, Ruzomberok  
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**KNAUF**CEILING  
Solutions

# DATASHEET MEDIGUARD Acoustic



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.

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<b>Edge details</b>		Board 	Tegular 24/90 	Tegular 15/90 				
<b>Thickness (mm)</b>		19	19	19				
<b>Dimensions (mm)</b>		600 x 600 1200 x 600	600 x 600 1200 x 600	600 x 600 1200 x 600				
<b>System</b>		Exposed demountable - System C						
<b>Weight</b>		5.0 kg / m <sup>2</sup>						
<b>Colour</b>		 White						
<b>Sound absorption</b>		EN ISO 354 $\alpha_w = \mathbf{0.65(H)}$ as per EN ISO 11654 - <b>Class C</b>						
		Frequency <i>f</i> (Hz)	125	250	500	1000	2000	4000
		$\alpha_p$	0.40	0.40	0.60	0.80	0.90	0.85
		NRC = <b>0.70</b> as per ASTM C 423						
<b>Sound attenuation</b>		EN ISO 10848-2 $D_{n,f,w} = \mathbf{38 dB}$ as per EN ISO 717-1 <span style="float: right;"><math>CAC = \mathbf{39 dB}</math> as per ASTM E 413-10</span>						
<b>Sound reduction</b>		EN ISO 10140-2 $R_w = \mathbf{22 dB}$ as per EN ISO 717-1						
<b>Fire reaction</b>		Euroclass <b>A2-s1, d0</b> as per EN 13501-1 <b>Class A</b> as per ASTM E 84						
<b>Light reflectance</b>		<b>88%</b>						
<b>Thermal conductivity</b>		$\lambda = \mathbf{0.060 W/mk}$ as per EN 12667						
<b>Air permeability</b>		<b>PM1</b> ( $\leq 30 \text{ m}^3/\text{hm}^2$ ) as per DIN 18177						
<b>Humidity resistance</b>		<b>95% RH</b>						
<b>Clean room</b>		<b>ISO 4</b> as per EN ISO 14644-1						
<b>Risk level</b>		<b>Zone 4</b> (Very High Risk) as per NF S 90-351:2013						
<b>Microbiological Cleanliness</b>		<b>M1</b> as per NF S 90-351:2013						
<b>Kinetics of particle decontamination</b>		<b>CP<sub>(0,5)</sub>5</b> as per NF S 90-351:2013						
<b>Indoor air quality</b>		 A+	 E1					
<b>Cleanability</b>								
<b>Anti-microbial characteristics</b>		Tested against: Escherichia coli, Staphylococcus aureus, Bacillus cereus, Streptococcus pneumoniae, Acinobacter baumannii, Klebsiella pneumoniae, Candida albicans, Aspergillus brasiliensis						
<b>Sustainability</b>		 EN ISO 14021 35%	 BIOSOLUBLE WOOL 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 our website.