

SILENTPLUS RUBBER

## SILENTPLUS RUBBER

Double-layered acoustic insulation sheet, composed of an high density elastomeric material coupled with expanded foam material (FEF). Suitable to solve problems of acoustic insulation in building and industrial applications.

### APPLICATIONS FIELDS



Industrial



Air Conditioning



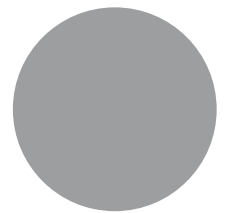
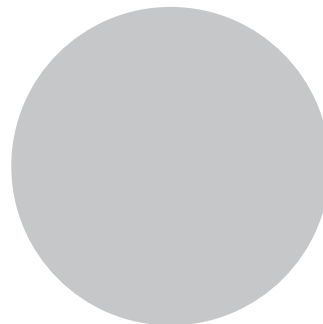
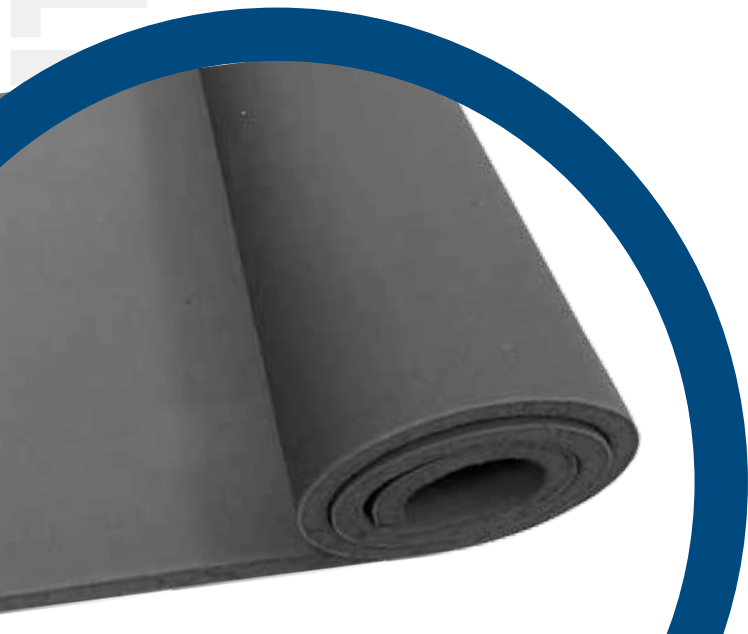
Building



Refrigeration



Heating & Plumbing



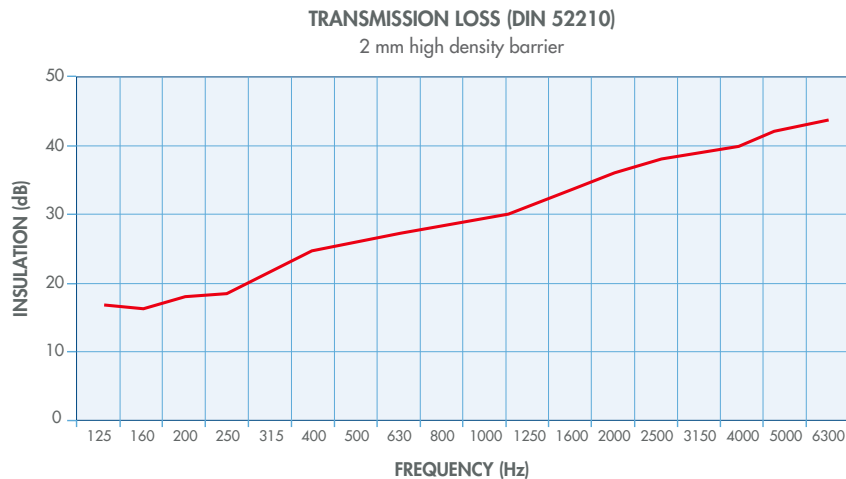


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<b>TYPE OF MATERIAL:</b>	Soundproofing barrier layer coupled with a flexible elastomeric foam (FEF) sheet
<b>PRODUCT RANGE:</b>	Sheets in roll with dimension of 1 x 2 m and thickness of 12 mm (2 mm of high-density elastomeric barrier + 10 mm of flexible elastomeric foam sheet). Available also in self-adhesive version
<b>FIELDS OF APPLICATION:</b>	Acoustic insulation of walls, floors and ceilings, water pipes, drains, air conditioning equipment and heating & plumbing services in commercial, industrial and domestic application
<b>DIMENSIONAL TOLERANCES:</b>	In accordance with the European Standard EN 14304
<b>ENVIRONMENTAL INFORMATION:</b>	CFC and HCFC-free insulation compound. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero). Free from lead, bitumen and fibres
<b>ADDITIONAL INFORMATION:</b>	Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of polyolefin foil. Traces of silicon can be found on the foil protecting the self-adhesive coating
<b>STORAGE CONDITIONS/SHELF LIFE:</b>	Store the material in a dry and clean environment at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Self-adhesive products should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED					TEST METHOD	
<b>OPERATING TEMPERATURE RANGE</b>	-45 °C +110 °C					EN 14706	
<b>THERMAL CONDUCTIVITY</b>	At a mean temperature of 0 °C	$\lambda \leq 0,034 \text{ W/m}\cdot\text{K}$				EN 12667	
	At a mean temperature of +40 °C	$\lambda \leq 0,038 \text{ W/m}\cdot\text{K}$					
<b>MEASUREMENT OF NOISE FROM WASTE WATER INSTALLATIONS</b>	Reduction of air-borne sound transmission	Flow rate (L/s)	0,5	1	2	4	UNI EN 14366
		dB(A)	12	12	10,5	10,5	
	Structure-borne sound level	Flow rate (L/s)	0,5	1	2	4	
		dB(A)	15,5	16,6	18,4	19,6	
<b>HARDNESS*</b>	80 ± 10 Shore A					UNI EN ISO 868	
<b>TENSILE STRENGTH*</b>	> 1N/mm <sup>2</sup>					DIN 53504 / UNI 6065	
<b>ELONGATION AT BREAK*</b>	> 20%					DIN 53504 / UNI 6065	
<b>FIRE PERFORMANCE</b>	European Standard Euroclass	D-s2,d0				EN 13501-1	
	Swiss Reaction to Fire group	RF3				VKF Directive 13-15	

\*Data refer exclusively to the 2 mm high density layer.



For information regarding the chemical resistance of the product please consult the specific technical documentation. The self-adhesive version has been designed with the aim to make installation easier. Given the high specific weight of the material, a mechanical fastening is recommended.

**System 3 CE Marking** in accordance with the European Standard EN 14304.

The product meets the requirements for the achievement of the Eco-Bau classification.

All the normatives quoted in this document are updated to the latest issued version.

Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

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## 2 m LENGTH ROLLS, 1 m WIDTH

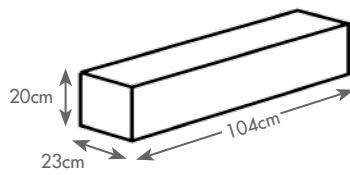
Item No.	Sheet dimension (m)	m <sup>2</sup> /box
02 + 10SIL RUB GT	1 x 2	2

### SELF-ADHESIVE

Item No.	Sheet dimension (m)	m <sup>2</sup> /box
02 + 10SIL RUB GT ADR	1 x 2	2

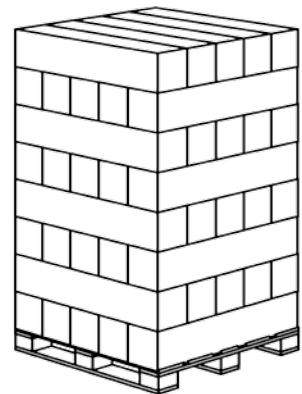


**Packaging dimensions:**  
(volume = 0,05 m<sup>3</sup>)



**Pallet dimensions:**

105 x 105 x 196 cm  
Volume = 2,16 m<sup>3</sup>  
Box/pallet = 40



## THERMAL INSULATION PRODUCTS FOR BUILDING EQUIPMENT AND INDUSTRIAL INSTALLATIONS. FACTORY MADE FLEXIBLE ELASTOMERIC FOAM (FEF) PRODUCTS

### Dimensional tolerances specified by the European product Standard EN 14304

Form of delivery	Length	Width	Thickness		Squareness	Inside diameter	
			Declared	Tolerance		$D_i \leq 100$	$D_i > 100$
Tubes	$\pm 1,5\%$	-	$d_D \leq 8$	$\pm 1$	3,0 mm	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$
			$8 < d_D \leq 18$	$\pm 1,5$			
			$18 < d_D \leq 31$	$\pm 2,5$			
			$d_D > 31$	$\pm 3$			
Sheets	$\pm 1,5\%$	$\pm 2\%$	$d_D \leq 6$	$\pm 1$	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$			
			$d_D > 19$	$\pm 2$			
Rolls	+ 5% - 1.5%	$\pm 2\%$	$d_D \leq 6$	$\pm 1$	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$			
			$d_D > 19$	$\pm 2$			
Tapes	+ 5% - 1.5%	$\pm 2\%$	$d_D = 3$	- 0.1 + 1,5	-	-	-



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