

# PROMASOUND

## Thickness

1mm, 1.5mm, 1.75mm, 2mm, 2.5mm, 3mm, 4mm, 5mm

## Dimensions

width: 1000mm / 1200mm  
length: 25m, 30m, 50m, 70m, 100m  
length depending on thickness

Promasound TL is an innovative sound insulating barrier, completely lead and PVC free. It is MED certified (wheel marking). Promasound has a high mass, but is also extremely flexible. Therefore, a very high  $R_w$  index can be achieved with a relatively thin product. Compared to traditional EPDM plates, Promasound delivers a weight saving of 75% with the same  $R_w$  reduction. It is available in rolls as well as in sandwich panels.

## MAIN FEATURES

- Very high acoustic properties due to its visco-elastic composition compared to very low thickness and weight
- Custom finish
- Easy to install and rebuild with glue or metal pins and clips
- Stable with long-term use
- Fully recycle
- In case of fire, it carbonizes without melting (unlike lead)
- Low flame spread
- Less smoke development (only white smoke)
- Available in different adhesive versions, with different performance as required for the surfaces

Technical data	
Colour	Irregular light grey
Nominal density (tolerance) (UNI 7092, ASTM D1817, EN 53479)	kg/m <sup>3</sup> 2100 (±10%)
Chemical composition	Plastic polymer with mineral fillers
Reaction to fire (thickness 1 to 5mm)	Low spread of flame
Quality assurance	Module D. Low spread of flame
Service temperature	
Continuous	°C -30 to 90
Steady state	°C -50 to 110
Peak	°C 130
Thermal conductivity (EN 12667:2001 - EN 12664:2001)	W/mK 0.213
Best application	°C 15-20 (ambient temperature)
Hardness (tolerance) (UNI ISO 868, ASTM D2240)	80 (Shore A) (±10%)
Breaking load (UNI 6065, ASTM D412)	N/mm <sup>2</sup> > 1.0
Elongation (UNI 6065, ASTM D412)	% > 40
Storage	Indoor, minimum temperature of 5°C in its original pack

<sup>1)</sup> Certificate number and details available upon request.

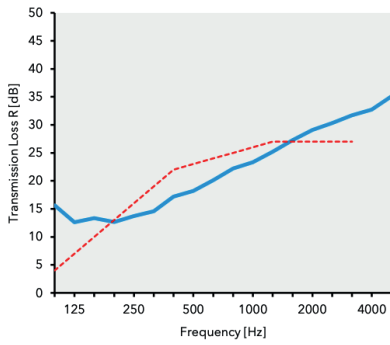
Acoustic properties									
Thickness	mm	1	1.5	1.75	2	2.5	3	4	5
$R_w$ index (ISO 717/1)	dB	23	25	26	27	29	31	33	35
Thickness	mm	1.5			1.75		3		
Dynamic stiffness (UNI EN 29052-1:1993)	Extrapolat. resonance	586.6			537		372		
Dynamic stiffness (MIP 110)	MN/m <sup>3</sup>	2397.7			2138.4		1027.1		
Young modulus (MIP 110)	E [Pa]	3.60			3.74		3.08		
Poisson coefficient (MIP 110)	MPa	1.02			-		0.74		

Dimensions (standard)										
Thickness (tolerance $\pm 10\%$ )	mm	1.0	1.5	1.75	2.0	2.5	3.0	4.0	5.0	
Roll length (tolerance $\pm 5\%$ )	mm	100	70	0	50	50	50	30	25	
Width (tolerance $\pm 2\%$ )	mm	1000	1000	1000	1000	1000	1000	1000	1000	
	mm	1200	1200	1200	1200	1200	1200	1200	1200	

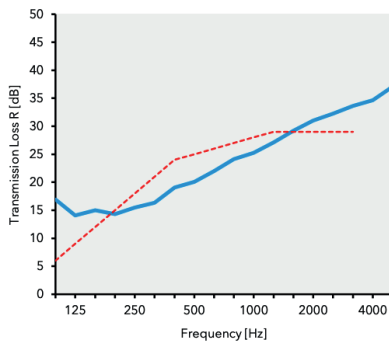
PROMASOUND®-TL can be supplied, on demand, in sheets with different dimensions or customised and shaped as per customer's drawing.

### Acoustic properties

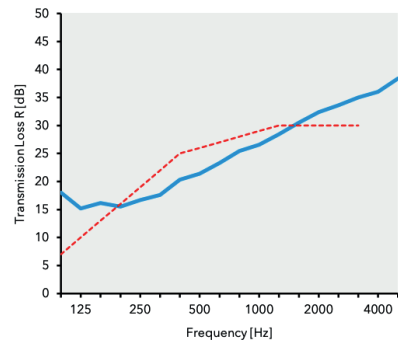
1mm thickness,  $R_w=23$  [dB]



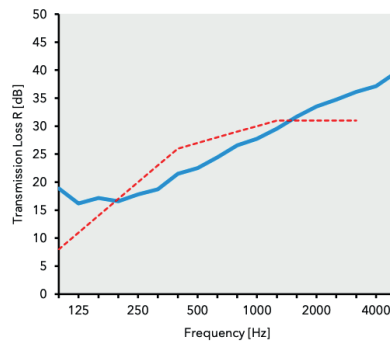
1.5mm thickness,  $R_w=25$  [dB]



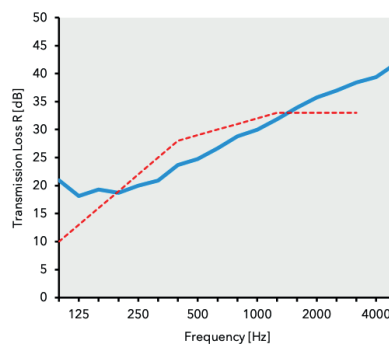
1.75mm thickness,  $R_w=26$  [dB]



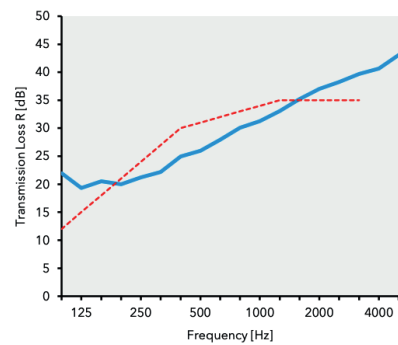
2mm thickness,  $R_w=27$  [dB]



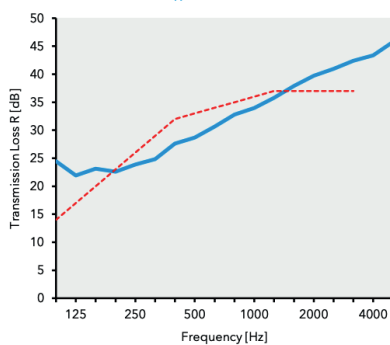
2.5mm thickness,  $R_w=29$  [dB]



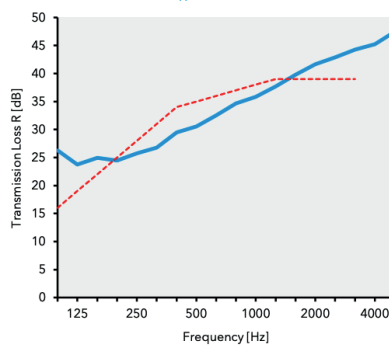
3mm thickness,  $R_w=31$  [dB]



4mm thickness,  $R_w=33$  [dB]



5mm thickness,  $R_w=35$  [dB]



— PROMASOUND®-TL ISO 10140/2  
- - - ISO 717 Reference curve

All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any liability, our delivery and payment terms apply exclusively. Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid.

PROMASOUND  
**GALLERY**

