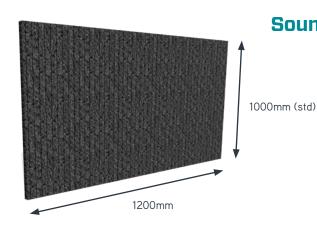


Whisper® NB

Sound Absorption Material for Noise Barriers NBO-40-A3

APPLICATION DATA SHEET



Physical Properties	Test Method	Unit	Typical Physical Properties
System series	-	-	WHISPER® Absorber Series
Mode of operation	-	-	Highly absorbent
Dimensions	-	cm	100 x 120 x 4 (standard) 200 x 120 x 4
Area of application (sound absorbent)	-	-	Surface mounted cladding for noise barriers and outdoor walls
Absorber material	-	-	WHISPER® polyethylene foam (PE) with grooved texture
Dry weight		kg/m²	1,0
Acoustic Properties			
Sound absorption street DL_{α}	EN 1793-1	dB	9 dB without steel post cladding; 9 dB with steel post cladding
Sound absorption rail DL_{α}	EN 16272-1	dB	11 dB without steel post cladding; 12 dB with steel post cladding
Sound reflection DL _{RI} in-situ street	EN 1793-5	dB	5
Sound reflection DL _{RI} in-situ rail	EN 16272-3-2	dB	6
Mechanical Properties			
Resistance to frost and de-icing salt	EN 14389-2	-	Fulfilled
Fire resistance	EN 1794-2	-	Class 1
Pendulum impact	EN 1794-2	-	Class 2
Impact of stones	EN 1794-1	-	Fulfilled
Evidence of water absorption / release			Checked
Long-term performance	EN 14389-1-2	-	Acoustic and non-acoustic properties 50 years
Other Properties	2.11.1007.12		, 10000110 and 11011 according proper 1100 oc your
Sound insulation	EN 1793-2(6) EN 16272-3-2	-	Effect not through absorber, but through carrier material (e.g. carrier plate)
Structural analysis		-	Evidence for each application through corresponding statics (e.g. panel statics)
Material and Surface Characteristics			
Material properties	Sound absorbent, extremely light, UV-resistant, hydrolysis resistant		
Other material properties	Water absorption up to 300% of its own weight; Up to 90% evaporation within 14 days; Simple adaptation of shape to the ground		
Dimensional tolerances	Product thickness up to +5 mm		
Surface structure	Honeycomb-like structure, with flat parallel grooves		
Colours	Black		
UV resistance	Category A: highest UV resistance, suitable for direct fixing to vertical outdoor surfaces		
Installation and cutting	Depending on the application e. g. glue / screw on carrier materials, cut to size using a stanley knife, circular saw or hand-held circular saw		
Recycling	Classification in low density polyethylene (LDPE); fully recyclable in LDPE recycling systems		



Germany