

CEPRO SONIC SOUNDABSORBING CURTAIN



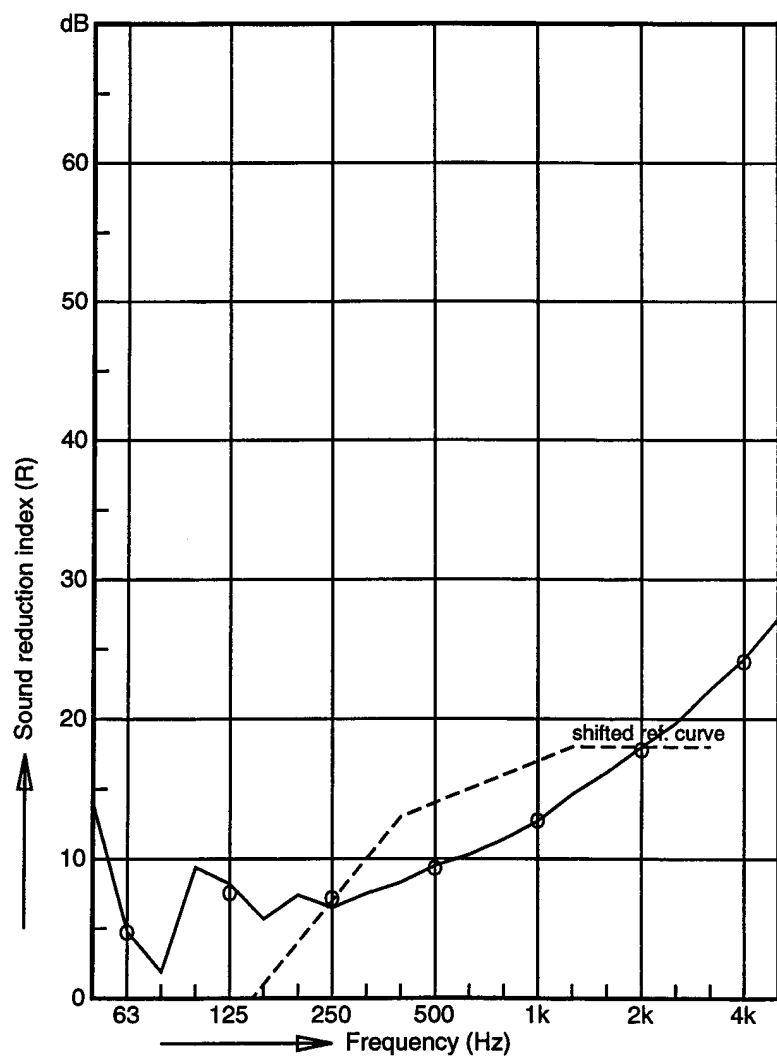
Test TNO Cepro Sonic curtain in accordance with EN-ISO 140-3

Project number : 008.02382/01.01
Test date : 16 November 2000

Product : Cepro Sonic soundabsorbing curtain
Test room : TNO TPD 3-4, Delft (The Netherlands)

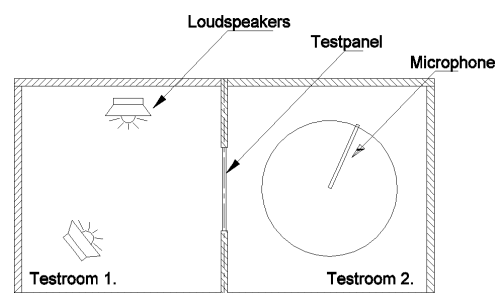
Test result : $R_w = 14$ dB

Frequency (Hz)	R 1/3 oct (dB)	R 1/3 oct (dB)
50	14,00	
63	4,80	4,70
80	1,90	
100	9,40	
125	8,20	7,50
160	5,70	
200	7,40	
250	6,50	7,10
315	7,50	
400	8,30	
500	9,50	9,30
630	10,30	
800	11,40	
1000	12,70	12,70
1250	14,60	
1600	16,20	
2000	18,00	17,70
2500	19,70	
3150	22,10	
4000	24,30	24,10
5000	27,20	



Measurement method

The test room is divided by a concrete wall of approx. 40 cm thick. In this wall there is a test opening (dimensions 123 x 148 cm). In the source room 'white noise' is produced using an amplifier-loudspeaker combination. The sound pressure level in source- and receiving room has been measured with a rotating microphone (rotation time 64s) and analysed over the same time period with a digital time parallel analyser. During the test a sound is produced (during 65s) in a range between 50 and 50.000 Hz. This test was carried out in accordance with EN-ISO 140-3 1996.



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COMPOSITION

Cepro Sonic soundabsorbing curtains consist of 3 layers. The first layer is a Bisonyl PVC fabric, the second layer is a special Cepro Sonic foam and the last layer is a perforated flame retardant fabric

Below you will find the technical specifications of each layer

1. Bisonyl PVC fabric

	Unit	Standard*	
Coating and furnishing			
Coating		PVC	
Furnishing		UV protected on both sides with acrylic paint, microbicial,	
Burning behavior		BS 7837, California T 19, CERF Categoria 2, DIN 4102: B1, NFP 92507: M2	
Flame retardancy		for flame retardancy always check validity of fire certificate	
Total weight	g/m²	650	EN ISO 2286-2
Tensile strength			DIN EN 1049
warp	N/50 mm	2500	DIN 53363, DIN EN ISO 1421/V1
weft	N/50 mm	2500	DIN 53363
Tear resistancy			DIN EN 53363
warp	N	250	
weft	N	250	
Adhesion	N/cm	20	LB 3.04-1 (Complan)
Cold resistance	°C	-30	DIN 53361
Temperature resistance	°C	+70	Complan directive
UV resistance	Note	>6	DIN 54004, DIN EN ISO 105 B02
Buckling strength	100000x	no tears	DIN 53359 A
Basic fabric			
Material		PES	DIN ISO 2076
Yarn thickness	dtex	1100	DIN ISO 206
Bond		L 1/1	

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2. CEPRO SONIC FOAM

Cepro Sonic Foam is a sound-absorbing and thermally insulating polyesterwoolproduct, made from polyester fibers. Cepro Sonic foam is an excellent alternative to glass and mineral wool. The material is naturally flame retardant and resistant to many chemicals, mold and vermin.

Certification

- Sound absorption values according to ISO 354: 2003 ISO 354: 2003
- Fire resistance according to:
 - NEN-EN 13501-1: 2002 according to report Efectis Delft; no: 2006- CVB-RO553
 - DIN 4102 B1
 - MVSS 302
- Thermal insulation to DIN 52612
- Contains no toxic or toxical suspecios materials. Tested according to Öko-tex standard 100, reportnr. 94.0.0541
- The Deutsches Institut für Bautechnik approved the material for use in construction. Admission Number : Z-23.1.3-278

Thickness 20 mm
Density 20 kg/m³
Diameter fabric 18 micron

Gases, liquids, solids,

- Resistant to detergents
- Not resistant to liquids with a pH-value > 11, for example concrete water
- Moisture Absorption Um 1.02% DIN

Fire resistance

- NEN - EN 13501-1: 2002 - fire class B, smokefactor S1, dripfactor d0. This means that the material is a.o. allowed in escape routes and other areas.
- DIN 4102 B1
- MVSS 302

Temperature Resistance

- Temperatures of -30 ° C to 120 ° C
- Resistant to UV radiation

Thermal insulation values, in accordance with DIN 52612:

- Type D20: $\lambda = 0.040 \text{ W / m.K}$

2. CEPRO SONIC PERFORATED FABRIC

Item	Unit	Data	Test method
Fabric		High tenacity yarns 100% PES (1000D*1000D)	DIN EN ISO2060
Construction	inch	Knitting 12*12	DIN60001
Total weight	g/m²	270	DIN53352 BS3424 method 5A
Weight of fabric	g/m²	170	DIN53352 BS3424 method 5B
Weight of pvc coating	g/m²	100	DIN53352 BS3424 method 5B
Tensile strength			
warp	N/5cm	1250	DIN53354 BS3424 method 6A
weft	N/5cm	1100	DIN53354 BS3424 method 6A
Tearing strength			
warp	N	235	DIN53356 BS3424 method 7A
weft	N	220	DIN53356 BS3424 method 7A
Suitable temperature	°C	-20 / +70	DIN 53372 BS3424 method 10
Flame retardancy		B1	
Lacquering		no	