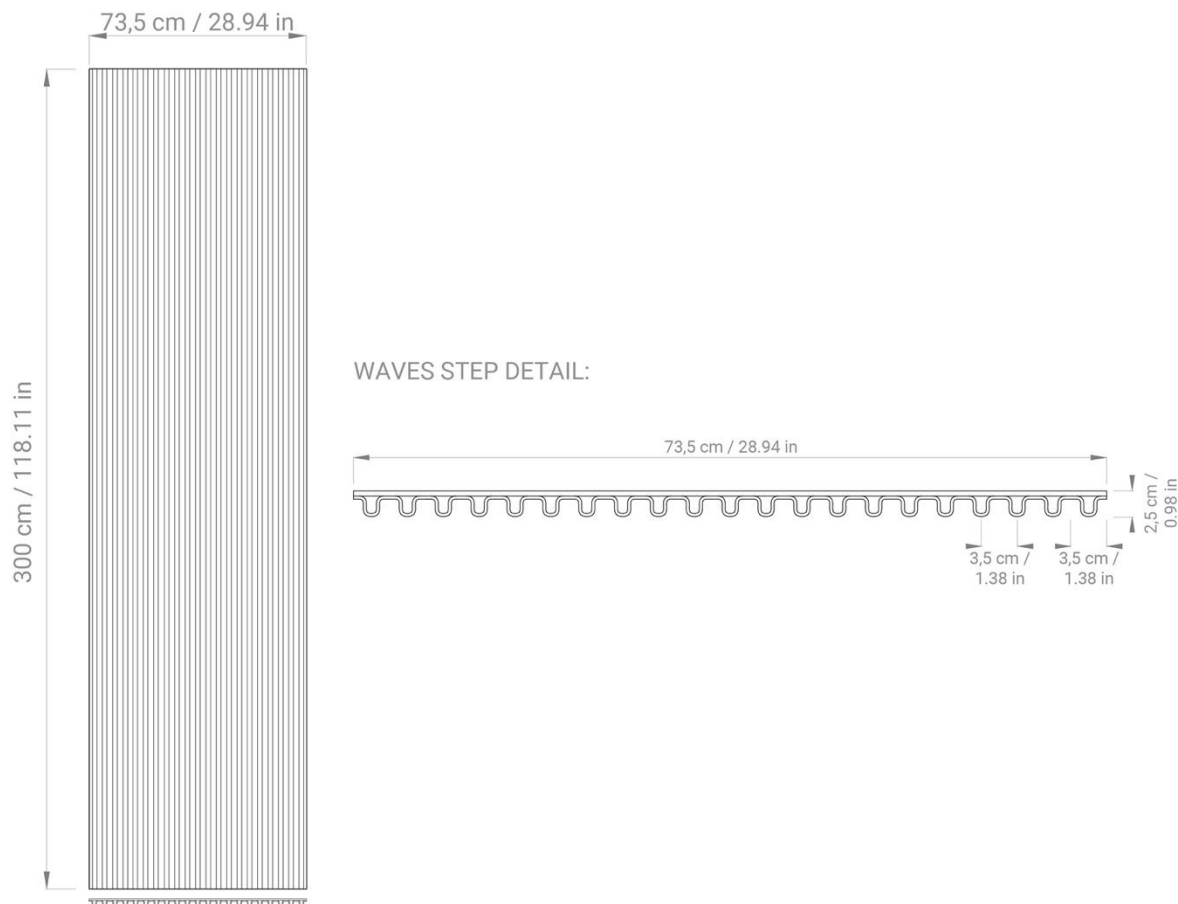**NAME:**

TUNNEL

DESCRIPTION:

Sound-absorbing and anti-reverberation panel in vertical bands
The panel can be coupled with additional sound-absorbing material to obtain a high acoustic performance

APPLICATION:

• Wall with velcro

BIG WAVES STEP:

73,5 cm / 28.94 in

300 cm / 118.11 in

WAVES STEP DETAIL:

73,5 cm / 28.94 in

2,5 cm / 0.98 in

3,5 cm / 1.38 in   3,5 cm / 1.38 in

DIMENSIONS:

• H **300** x L **73,5** x THK **2,5** cm
• H **118.11** x L **28.94** x THK **0.79** in

• H **270** x L **73,5** x THK **2,5** cm
• H **106.29** x L **28.94** x THK **0.79** in

• H **150** x L **73,5** x THK **2,5** cm
• H **59** x L **28.94** x THK **0.79** in

NOTE: *The dimensions of the panel and the step of the waves can be customized at measure*

WEIGHT:

• **3** kg/m^2
• **0.615** lb/ft^2

LITTLE WAVES STEP

65 cm / 25.6 in

300 cm / 118.11 in

WAVES STEP DETAIL:

65 cm / 25.6 in

2,5 cm / 0.98 in

2,5 cm / 0.98 in

DIMENSIONS:

• H **300** x L **65** x THK **2,5** cm
• H **118.11** x L **25.6** x THK **0.79** in

• H **270** x L **65** x THK **2,5** cm
• H **106.29** x L **25.6** x THK **0.79** in

• H **150** x L **65** x THK **2,5** cm
• H **59** x L **25.6** x THK **0.79** in

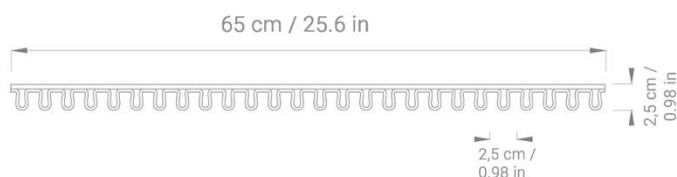NOTE: *The dimensions of the panel and the step of the waves can be customized at measure*

WEIGHT:

• **3** kg/m^2
• **0.615** lb/ft^2

COMPOSITION:

• **WAVY FELT PANEL:**
 Thickness: 3 mm (0.12 in)

 Composition: 100% Polyester

 Finishing:

• **ECOfelt** - 90% wool, 10% polyester
• **PETfelt** - 100% PET – From post-consumer plastic bottles

• **SUBSTRUCTURE:**
 Thickness: 5 mm (0.20 in)

 Composition: 100% Polyester

 Color: White

COLOR DIFFERENCES:

Slight differences between dyeing lots are considered normal

RECYCLABILITY:

Recycled material panel recyclable at the end of his life,
without dividing soul and finish

MAINTENANCE:
Regularly and carefully use the vacuum cleaner with a smooth spout, or use soft bristle brushes
or professional pads for padding and upholstery

STRENGTHENING 20mm PANEL COMPOSITION:

• White polyester **fiber**

20 mm thickness for 1000 gr/m^2 (0.79 in for 0.205 lb/ft^2)

Density 50 Kg/m^3 (3.12 lb/ft^3)

Composition 100% polyester fiber without the use of chemical binders, of which minimum content of recycled fiber coming from flakes of **post-consumer PET bottles is 60%**

Formaldehyde content "undetectable", less than 10 mg / kg according to test performed by external accredited laboratory with reference to the method for JIS L 1041: 2011 - Method A (fabrics: free and extractable formaldehyde)

This value complies with the limit established by the Oeko-Tex Standard 100 Class I Protocol

Fire reaction class UE: B-s2, d0

STRENGTHENING 40mm PANEL COMPOSITION:

• White polyester **fiber**

40 mm thickness for 2400 gr/m^2 (1.57 in for 0.49 lb/ft^2)

Density 60 Kg/m^3 (3.745 lb/ft^3)

Composition 100% polyester fiber without the use of chemical binders, of which minimum content of recycled fiber coming from flakes of **post-consumer PET bottles is 60%**

Formaldehyde content "undetectable", less than 10 mg / kg according to test performed by external accredited laboratory with reference to the method for JIS L 1041: 2011 - Method A (fabrics: free and extractable formaldehyde)

This value complies with the limit established by the Oeko-Tex Standard 100 Class I Protocol

Fire reaction class UE: B-s2, d0

CERTIFICATIONS:

• FIRE REACTION CLASS:

B-s2, d0

• CE MARK:

B-s1, d0

• GREEN LABELS:

GREENGUARD
GREENGUARDGOLD

VOC EMISSION TEST Indoor Air Comfort GOLD
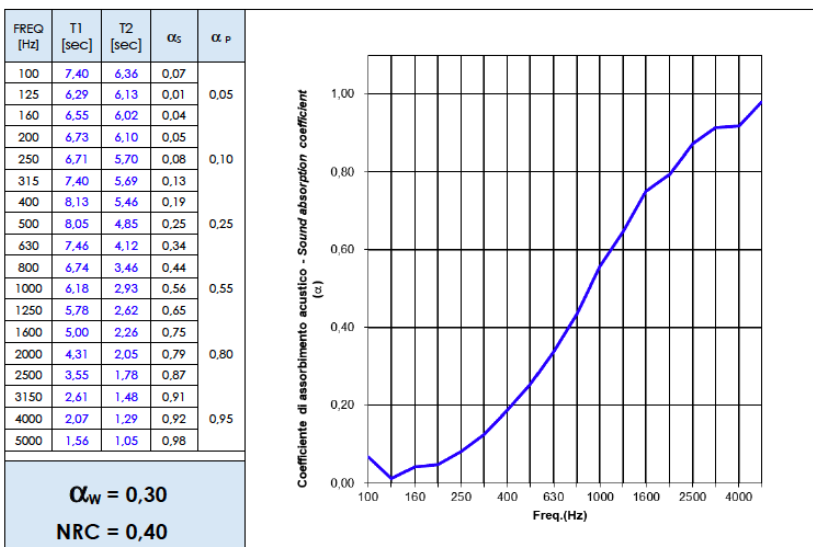
• SOUND ABSORPTION REPORT:

UNI EN ISO 354: 2003
UNI EN ISO 11654: 1998

TUNNEL:

Elemento in prova Tested element	Tunnel
Descrizione del campione Sample description	Vedere § "Descrizione del campione in prova" del presente Report Montaggio tipo A secondo EN 354 Ssee § "Tested sample description" of this Report Type A mounting according to EN 354
Superficie del campione Sample surface	10 m²

FREQ [Hz]	T1 [sec]	T2 [sec]	α_S	α_P
100	7,40	6,36	0,07	
125	6,29	6,13	0,01	0,05
160	6,55	6,02	0,04	
200	6,73	6,10	0,05	
250	6,71	5,70	0,08	0,10
315	7,40	5,69	0,13	
400	8,13	5,46	0,19	
500	8,05	4,85	0,25	0,25
630	7,46	4,12	0,34	
800	6,74	3,46	0,44	
1000	6,18	2,93	0,56	0,55
1250	5,78	2,62	0,65	
1600	5,00	2,26	0,75	
2000	4,31	2,05	0,79	0,80
2500	3,55	1,78	0,87	
3150	2,61	1,48	0,91	
4000	2,07	1,29	0,92	0,95
5000	1,56	1,05	0,98	

$\alpha_W = 0,30$

NRC = 0,40

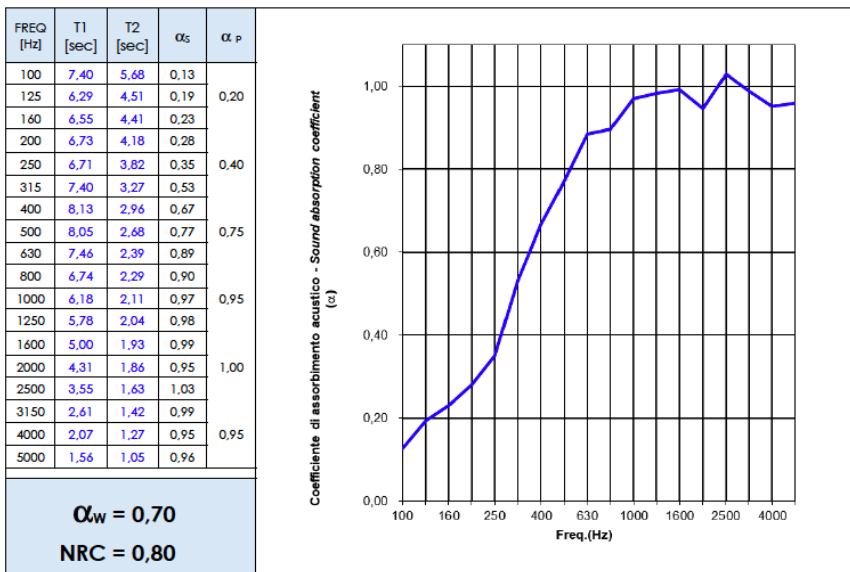## TUNNEL + Materassino in poliestere 20 mm:

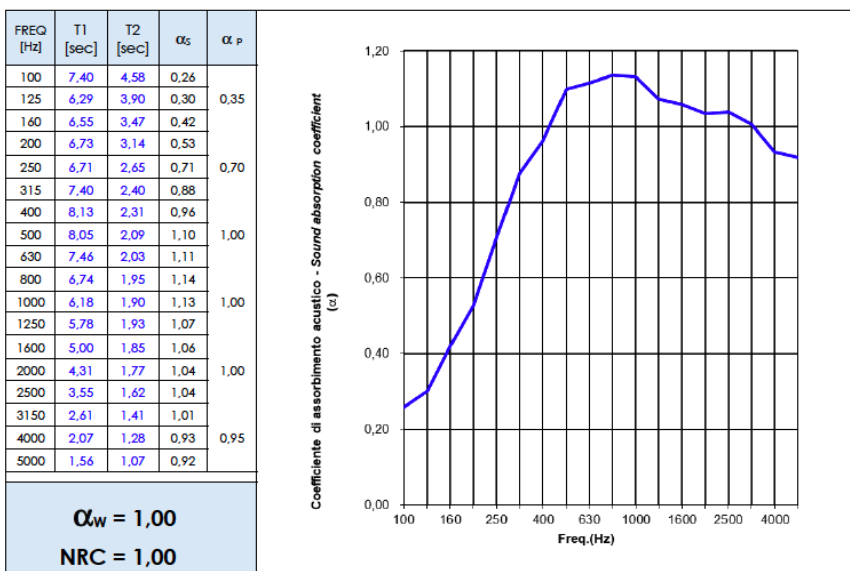| Elemento in prova Tested element	Tunnel +20
Descrizione del campione Sample description	Vedere § "Descrizione del campione in prova" del presente Report Montaggio tipo A secondo EN 354 Ssee § "Tested sample description" of this Report Type A mounting according to EN 354
Superficie del campione Sample surface	10 m²

FREQ [Hz]	T1 [sec]	T2 [sec]	α_S	α_P
100	7,40	5,68	0,13	
125	6,29	4,51	0,19	0,20
160	6,55	4,41	0,23	
200	6,73	4,18	0,28	
250	6,71	3,82	0,35	0,40
315	7,40	3,27	0,53	
400	8,13	2,96	0,67	
500	8,05	2,68	0,77	0,75
630	7,46	2,39	0,89	
800	6,74	2,29	0,90	
1000	6,18	2,11	0,97	0,95
1250	5,78	2,04	0,98	
1600	5,00	1,93	0,99	
2000	4,31	1,86	0,95	1,00
2500	3,55	1,63	1,03	
3150	2,61	1,42	0,99	
4000	2,07	1,27	0,95	0,95
5000	1,56	1,05	0,96	

$\alpha_W = 0{,}70$

NRC = 0,80

TUNNEL + Materassino in poliestere 40 mm:

Elemento in prova Tested element	Tunnel +40
Descrizione del campione Sample description	Vedere § "Descrizione del campione in prova" del presente Report Montaggio tipo A secondo EN 354 Ssee § "Tested sample description" of this Report Type A mounting according to EN 354
Superficie del campione Sample surface	10 m²

FREQ [Hz]	T1 [sec]	T2 [sec]	α_S	α_P
100	7,40	4,58	0,26	
125	6,29	3,90	0,30	0,35
160	6,55	3,47	0,42	
200	6,73	3,14	0,53	
250	6,71	2,65	0,71	0,70
315	7,40	2,40	0,88	
400	8,13	2,31	0,96	
500	8,05	2,09	1,10	1,00
630	7,46	2,03	1,11	
800	6,74	1,95	1,14	
1000	6,18	1,90	1,13	1,00
1250	5,78	1,93	1,07	
1600	5,00	1,85	1,06	
2000	4,31	1,77	1,04	1,00
2500	3,55	1,62	1,04	
3150	2,61	1,41	1,01	
4000	2,07	1,28	0,93	0,95
5000	1,56	1,07	0,92	

$\alpha_W = 1{,}00$

NRC = 1,00

CAT A

COMPOSITION

90% lana naturale, 10% poliestere
90% natural wool, 10% polyester

ECOfelt.

Ghost white 955E	Chalk 327	Grey 953E	Concrete 903	Beige 952	Caramel 332E
Mushroom 325	Chocolate 352	Taupe 511	Brown 605	Rust 604	Corten 516
Yellow 34	Egg 980	Mustard 54	Cob orange 997	Orange 971	Coral 336
Red 5	Pompei 47	Bordeaux 192	Marsala 973	Quartz rose 940	Salmon 317
Bubble pink 53	Pink 988	Marylin 323	Mauve 601	Agate 919	Violet 921
Purple 508	Barolo 602	Grape 603	Fresh air 976	Salvia green 334E	Acid green 611E
Cashmere green 89	Grassland 937	Tea Green 345	Leaf Green 910	Lagoon 608	Peacock blue 962
Black forest 77	Dark musk 22E	Mineral Blue 311	Biggest Splash 41	Capri 341	Avio 333E
Light blue 914	Blue yonder 200	Azuleja 318	Moonstone 512	Skyblue 942	Nynph 972
Honolulu blue 607	Blue 193	Blue Klein 322	Deep sea blue 963	Ink 329	Dark grey 923

COMPOSITION

96% PET - Bottiglie di plastica postconsumo.
96% PET - Recycled plastic bottles.

PETfelt.

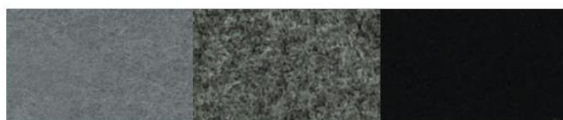|					
Ash 703	Fog 953P	Milk 955P	Beige 16	Tuscan brown 20	Mud 19
Pale yellow 41	Alabaster 32	Yellow 3	Duck Orange 43	Orange 9	Dark Orange 14
Red 6	Ruby red 27	Bordeaux 15	Pastel pink 37	Pink 17	Wisteria pink 36
Barbie 113	Fuchsia 10	Sangria 30	Grapes 23	Purple 11	Raspberry 47
Opal 33	Celadon 39	Water green 2	Kiwy 28	Acid green 7	La salle green 12
Jungle green 31	Grey green 22	Egg blue 38	Light blue 8	Blue 13	Azure 1
Summer night 21	Charm blue 44	Pacific blue 29	Dark blue 5	Midnight 905	Rhino 903
Grey 4	Street 529	Rich black 18			