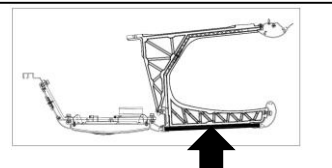


Drawing A70200381S013

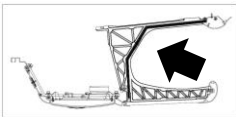


PANNELLO ALVEOLARE Honeycomb panel	8mm	SPESSORE Thickness mm
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2.

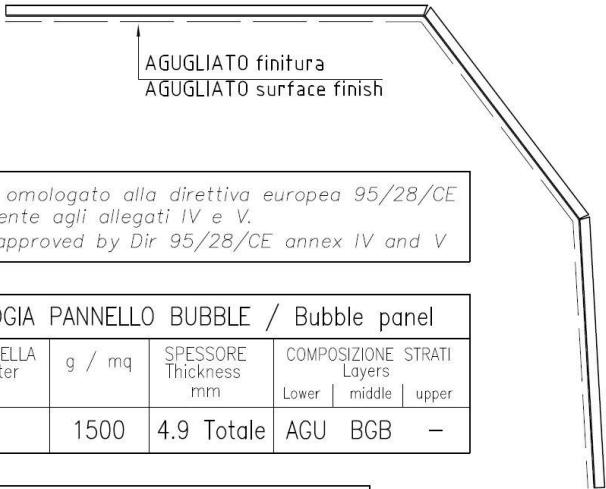
INTERNAL PANEL

Code A70200380SA13 (P702000013-01).
Drawing A70200380S013



Current Solution

Bubble BGB Panel 4,9mm thickness supplied with fitted carpet on internal side.



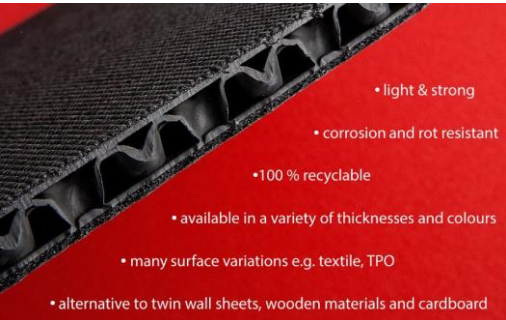
Materiale omologato alla direttiva europea 95/28/CE
relativamente agli allegati IV e V.
Material approved by Dir 95/28/CE annex IV and V

TIPOLOGIA PANNELLO BUBBLE / Bubble panel					
DIAMETRO CELLA Cell diameter mm	g / mq	SPESSORE Thickness mm	COMPOSIZIONE STRATI Layers		
			Lower	middle	upper
8	1500	4.9 Totale	AGU	BGB	—

Material: Polipropilene / polypropylene

Proposal Solution

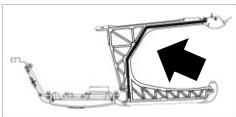
Polypropylene Panel with fitted carpet on internal side (5,7mm total thickness).



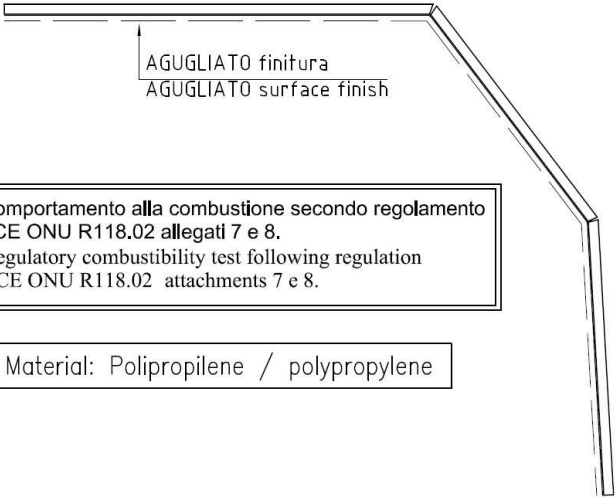
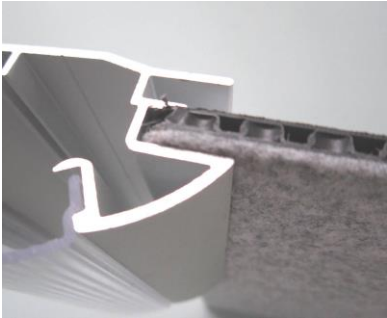
2.

INTERNAL PANEL

Code A70200380SA13 (P702000013-01).
Drawing A70200380S013



Proposal Solution



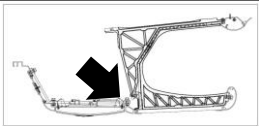
Comportamento alla combustione secondo regolamento
ECE ONU R118.02 allegati 7 e 8.
Regulatory combustibility test following regulation
ECE ONU R118.02 attachments 7 e 8.

Material: Polipropilene / polypropylene



3. ANTICONDENSATE PANEL

Code P650000060-04.
40mm th=3mm L=50mt



Current Solution

Descrizione del materiale: <i>General description:</i>	PE RETICOLATO ESPANSO CL1
Peso totale g/m ² : (minimo / massimo) <i>Weight minimum - maximum</i>	2,7 mm 90 g/m ² ± 10% 5,5 mm 165 g/m ² ± 10% from to:
Densità PE: <i>Density</i>	30 ± 10% kg/m ³
Spessore totale mm : (minimo / massimo) <i>Thickness minimum - maximum:</i>	2,7 mm -5,5 mm from to
Materiale (natura dei componenti): <i>Details of all components chemical class:</i>	PE reticolato espanso Crosslinked polyethylene

Proposal Solution

THE SAME PE 3mm panel, fitted
aluminum sheet metal



COMPLAINED TO R118.02
ATTACHMENT 7 and 8

DESCRIZIONE <i>DESCRIPTION</i>	Nastro di Alluminio monolucido ricotto di spessore 40 µm <i>Soft aluminium foil double-rolled, thickness 40 µm</i>				
PROPRIETA' ALLUMINIO <i>ALUMINIUM PROPERTIES</i>	Lega <i>Stato</i>	Alloy <i>Temper</i>	1200 O		
			Metodi di prova/ <i>Testing Methods</i>	Valore nominale <i>Nominal Value</i>	Tolleranza <i>Tolerance</i>
CARATTERISTICHE DIMENSIONALI <i>DIMENSIONAL PROPERTIES</i>	Spessore puntuale <i>Point thickness</i>		EN 546-3	40	3,2 µm
	Spessore medio <i>Average thickness</i>		EN 546-3	40	2,4 µm
	Grammatura <i>Weight</i>		EN 546-3	108,4	8,67 g/m ²
CARATTERISTICHE MECCANICHE <i>MECHANICAL PROPERTIES</i>	Carico a rottura <i>Tensile Strength</i>		EN 546-2	50 ± 105 N/mm ²	
	Allungamento <i>Elongation</i>		EN 546-2	≥ 3 %	
	Pressione di scoppio (*) <i>Burst strength</i>		EN 546-4	≥ 190 kPa	
	Altezza calotta (*) <i>Dome height</i>		EN 546-4	≥ 6,3 mm	
CARATTERISTICHE PARTICOLARI <i>SPECIAL PROPERTIES</i>	Porosità <i>Porosity</i>		EN 546-4	≤ 0,5 -/m ²	
	Bagnabilità <i>Wettability</i>		EN 546-4	A ÷ C grade	
	Svolgibilità <i>Stickiness</i>		EN 546-4	≤ 2 mm	
	Eccentricità <i>Eccentricity</i>		IQD70CQ Al12 (**)	≤ 5 mm	
	Telescopicità <i>Telescoping</i>		IQD70CQ Al12 (**)	≤ 2 mm	
	Disallineamento spire <i>Telescoping between layers</i>		IQD70CQ Al12 (**)	≤ 1 mm	

(*) Area Calotta/Clamping Device Area: 10 cm²

(**) Metodo interno/Internal Method

Material :
Wood medium density 6mm tichness

Material :
Wood medium density 6mm tichness + FR

**COMPLAINED TO R118.02
ATTACHMENT 7 and 8**

Product type :	MDF Fibreboard
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.9
CE Class :	MDF.LA FR
Field of application :	Internal use as structural component in dry conditions
AVCP Class :	1
Certification number:	1161-CPR-1221 [6-12mm] ; 1161-CPR-0190 [12-30mm]
Produced at:	Rue de la Forêt 2, B-6690 Vielsalm



Issue by : A. Dotti

Proposal Solution

Essential Characteristic	Unit	Reference	Thickness range (mm)			
			≤ 6	>6 - 9	> 9 - 12	≥12-19
Bending strength	N/mm ²	EN 622-5	29	29	27	25
Modulus of elasticity in bending	N/mm ²	EN 622-5	3000	3000	2800	2500
Internal bond	N/mm ²	EN 622-5	0,70	0,70	0,65	0,60
Swelling in thickness, 24h	%	EN 622-5	30	17	15	12
Moisture resistance OPTION 1 : Internal bond	N/mm ²	EN 622-5	NPD	NPD	NPD	NPD
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 622-5	NPD	NPD	NPD	NPD
Surface Soundness	N/mm ²	EN 622-5	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986-table B1	E1	E1	E1	E1
Reaction to fire	Class	EN 13501-1	B-s2d0	B-s2d0	B-s2d0	B-s1d0
Water vapour permeability μ	wet dry	EN 13986 - table 9	20 12	20 12	20 12	20 12
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD
Sound absorption α		EN 13986 - table 10	0,10/0,20	0,10/0,20	0,10/0,20	0,10/0,20
Thermal conductivity λ	W/m.K	EN 13986 - table 11	0,1	0,1	0,1	0,1
Strength - tension f _t	N/mm ²	EN 12369-1	13	13	13	12,5
Strength - compression f _c	N/mm ²	EN 12369-1	13	13	13	12,5
Strength - bending f _m	N/mm ²	EN 12369-1	21	21	21	21
Strength - panel shear f _p	N/mm ²	EN 12369-1	6,5	6,5	6,5	6,5
Strength - planar shear f _p	N/mm ²	EN 12369-1	NPD	NPD	NPD	NPD
Stiffness - tension E _t	N/mm ²	EN 12369-1	2900	2900	2900	2700
Stiffness - compression E _c	N/mm ²	EN 12369-1	2900	2900	2900	2700
Stiffness - bending E _m	N/mm ²	EN 12369-1	3700	3700	3700	3000
Stiffness - panel shear G _p	N/mm ²	EN 12369-1	800	800	800	800
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD
Punishing shear strength R _{mean}	N/mm ²	EN 1195	NPD	NPD	NPD	NPD
Punishing shear strength F _{10p,k}	N/mm ²	EN 1195	NPD	NPD	NPD	NPD
Punishing shear strength F _{max,k}	N/mm ²	EN 1195	NPD	NPD	NPD	NPD
Linear expansion δ _{10,65}	mm/m	EN 318	NPD	NPD	NPD	NPD
Mechanical durability (kmod; kdef)		Shall be taken from :	NPD	NPD	NPD	NPD
Biological durability	Service Class	EN 335	1	1	1	1
Content of PCP	ppm	EN 13986-5.18	<5	<5	<5	<5

Informative Characteristic	Unit	Reference	Thickness range (mm)			
			6	>6 - 9	>9 - 12	>>12-18
Formaldehyde class	Class	ASTM E1333	CARB 2 < 0.11 ppm [6 -> 30mm]			
Formaldehyde class	Class	ASTM E1333	TSCA Title VI (EPA) < 0.11 ppm [6 -> 30mm]			
Reaction to fire	Class	ASTM E84	Class 1/A [6 -> 30mm]			