## **Uniflair panels** Sect.05 40N



## Panel types: 40NA/40NF/40NL

40N panels consist of a 38mm-thick particle board (nominal density 650kg/m<sup>3</sup>) core strengthened by suitable high performance resins. It is provided with a 0.45mm-thick black plastic edge material self-extinguishing and non-creaking.

40NA panel: the backing is a nominal 0.05mm-thick aluminium foil, in order to create an excellent fire and humidity barrier and at the same time an equipotential reinforcement for the purpose of maintaining the flooring's electrical continuity properties.

40NF panel: to improve the flexural stiffness and its overall mechanical resistance, the panel is produced by applying a nominal 0.5mm-thick steel sheet (hot dip galvanizing treatment) on the lower face. This also provides an excellent barrier guarding against fire and moisture, and an equipotential reinforcement for the purpose of maintaining the flooring's electrical continuity properties.

40NL panel (11): specific panel (40NLL) produced by applying a 0.9mm-thick plastic laminate sheet on the lower and the upper faces to improve the panel balancing.

(1) The mechanical properties of the 40NLL panel are obtained increasing by 5% the values of the panel 40NAL, excluding the working loads.



Table 1 – Panel type												
	Bare	Aluminium foil	Galvanized steel sheet	High pressure laminate	Vinyl	Linoleum	Rubber	Carpet	Parquet	Ceramic - Stoneware	Recomposed stone	Natural stone
Finishing material	0	Α	F	L	v	D	G	С	Р	т	R	S
Panel												
40NA aluminium foil	х	✓	✓	✓	✓	✓	✓	✓	1	✓	✓	✓
40NF galvanized steel sheet	х	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1
40NL plastic laminate	х	х	х	✓	х	х	х	х	х	х	х	x
Level Coll March		-		-		-	-		-			

Legend:  $\checkmark = ok; \times = no.$ 



Table 2 – Physical properties									
Test standard	U.M.	Value	Tolerance						
EN 40005	mm	600 x 600	±0.2 (class1)						
EN 12825	mm	38	±0.3 (class1)						
-	mm	≤0.6	-						
-	mm	≤0.4	-						
-	degrees	4	-						
		REV > 2x10 <sup>10</sup>							
EN 1081	Ω	$10^7 < \text{REV} \le 2x10^{10}$							
		$5x10^{5} < \text{REV} \le 10^{7}$							
EN 13501-1	Class Cfl-s1 (2)								
	☑ REI 30f <sup>(3)</sup>								
EN 13501-2	🗆 REI 30r								
UL94	Class V0								
	Test standard EN 12825 - - - EN 1081 EN 1081 EN 13501-1 EN 13501-2 UL94	Test standard         U.M.           EN 12825         mm           mm         mm           -         mm           -         mm           -         degrees           -         degrees           -         secondary           EN 1081         Ω           EN 13501-1         -           EN 13501-2         -           UL94         -	Test standard         U.M.         Value           EN 12825         mm         600 x 600           mm         38         100           -         mm         \$\$0.6\$           -         mm         \$\$0.6\$           -         mm         \$\$0.4\$           -         degrees         4           -         degrees         4           - $$$0.6$         10^7$           EN 1081         $$$\Omega$         10^7$ < RE$						

(1) The value needs to increase of the upper and lower covers thickness.

(1) The value needs to interface of the upper link former cover solver covers incluses.
(2) The presence of the upper finishing can improve the fire reaction class.
(3) According to Italian law D.M. 16/02/2007 "Product fire resistance rating" section A.4.4. Raised access floor:

"f": panel is designed to resist to a fully developed fire;
"r": panel is designed to resist to a constant and reduced fire temperature.

Ci riserviamo il diritto di variare i dati tecnici come conseguenza del processo di miglioramento del prodotto.

## **Panels**

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Table 3 – Mechanical properties															
		40NA panel						40NF panel							
in compliance with test standard EN 12825			Type of stringer <sup>(1)</sup>						Type of stringer <sup>(1)</sup>						
Finishing: 0 A V D G C P		S.R.	S/L	М	P Uni8	P FS	TR	S.R.	S/L	М	P Uni8	P FS	TR		
Point load centre of side at 2.5mm deflection		2.0	1.5	1.7	2.0	1.9	-	3.3	1.9	2.2	2.5	2.4	-		
Working load centre of side (safety factor 2) (2)	KN	2.7	2.7	2.8	2.9	2.9	-	4.1	4.1	4.2	4.3	4.3	-		
Point load centre of panel at 2.5mm deflection	- kN	2.9	2.1	2.6	2.9	2.8	-	5.3	3.2	3.7	4.1	3.9	-		
Working load centre of panel (safety factor 2) (2)		4.0	4.0	4.1	4.3	4.3	-	6.3	6.3	6.4	6.5	6.5	-		
Distributed load at 2.5mm deflection	kN/m <sup>2</sup>		11.0	15.0	18.0	17.0	-		17.0	21.0	25.0	23.0	-		
Load/deflection class			1/C	1/B	1/A	1/B	-		3/-	3/-	3/C	3/-	-		
		•													
Finishing: F L		S.R.	S/L	м	P Uni8	P FS	TR	S.R.	S/L	м	P Uni8	P FS	TR		
Point load centre of side at 2.5mm deflection	LNI	2.1	1.6	1.8	2.1	2.0	-	3.5	2.1	2.4	2.7	2.6	-		
Working load centre of side (safety factor 2) (2)	- KIN	2.9	2.9	3.0	3.1	3.1	-	4.2	4.2	4.3	4.4	4.4	-		
Point load centre of panel at 2.5mm deflection		3.1	2.3	2.9	3.2	3.1	-	5.5	3.4	4.0	4.4	4.2	-		
Working load centre of panel (safety factor 2) (2)	- KIN	4.4	4.4	4.5	4.7	4.7	-	6.5	6.5	6.6	6.7	6.7	-		
Distributed load at 2.5mm deflection	kN/m <sup>2</sup>		12.0	16.0	20.0	18.0	-		18.0	22.0	27.0	25.0	-		
Load/deflection class			1/C	2/-	2/C	2/C	-		3/-	3/-	3/C	3/C	-		
Finishing: T R S		S.R.	S/L	м	P Uni8	P FS	TR	S.R.	S/L	м	P Uni8	P FS	TR		
Point load centre of side at 1.0mm deflection	LNI	1.9	0.8	0.9	1.1	1.1	-	2.8	1.3	1.4	1.5	1.5	-		
Working load centre of side (safety factor 2) (2)	KIN	1.7	1.7	1.7	1.8	1.8	-	3.3	3.3	3.4	3.5	3.5	-		
Point load centre of panel at 1.0mm deflection	- kN	3.1	1.8	1.9	2.1	2.1	-	4.2	2.3	2.5	2.6	2.6	-		
Working load centre of panel (safety factor 2) (2)		2.1	2.1	2.1	2.2	2.2	-	5.0	5.0	5.1	5.2	5.2	-		
Distributed load at 1.0mm deflection	kN/m <sup>2</sup>		7.0	8.0	10.0	10.0	-		10.0	11.0	12.0	12.0	-		
Load/deflection class	-		-	-	-	-	-		2/A	2/A	2/A	2/A	-		

Note: the values refer to tests performed with structures up to 600mm height. (1) Type of structure: R.S. = panel tested on rigid supports; S = stringerless; L/M = with light/medium stringers; P Uni8 = heavy stringers with Uni8 structure; P FS = heavy stringers with FS structure. (2) The ultimate load is obtained multiplying the working load by the safety factor.

Ci riserviamo il diritto di variare i dati tecnici come conseguenza del processo di miglioramento del prodotto.