Uniflair panels Sect.03 35K



Panel types: 35K0/35KA/35KF

35K panel consists of a 34mm-thick single-ply mineral core formulated with high-density calcium sulphate (nominal 1500kg/m³), bonded with fibres featuring remarkable mechanical resistance and entirely free of wood particles. It is provided with a 0.45-thick black plastic edge material that is self-extinguishing, non-creaking and PVC free.

35K0 panel: without backing.

<u>35KA panel:</u> 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.

<u>35KF panel:</u> 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.



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	٧	D	G	С	Р	Т	R	S
Panel												
35K0 without backing	*	*	*	*	*	*	*	*	*	*	*	*
35KA aluminium foil	*	✓	1	1	✓	✓	✓	1	1	✓	✓	1
35KF galvanised steel sheet	*	1	✓	1	1	✓	1	✓	1	1	✓	1

Legend: \checkmark = ok; #= reserve on feasibility; \times = no.



Table 2 – Physical properties								
	Test standard U.M.		Value	Tolerance				
Nominal dimensions	EN 12825	mm	600 x 600	±0.2 (class1)				
Nominal thickness (1)	EN 12025	mm	34	±0.3 (class1)				
Flatness	-	mm	≤0.6	-				
Diagonal difference	-	mm	≤0.4	-				
Inclined edge angle	-	- degrees		-				
Transverse electrical resistance (panel with cover):								
 non anti-static (or physiological anti-static EN 1815) 			REV > 2x10 ¹⁰					
- static dissipative	EN 1081	Ω	$10^7 < REV \le 2x10^{10}$					
- conductive			5x10 ⁵ < REV ≤ 10 ⁷					
Fire reaction of the base panel 20KA	EN 13501-1	Class Bfl-s1						
Fire resistance of the base panel 30KA/30KF	EN 13501-2	REI 30						
Self extinguishing plastic edging	UL94	Class V0						

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

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Table 3 – Mechanical properties														
In compliance with test standard FN 42005			35	K0/35I	KA paı	nel		35KF panel						
In compliance with test standard EN 12825			Type of stringer (1)						Type of stringer (1)					
Finishing: 0 A V D G C P			.R.	S/L	М	Р		S.R.	S/L	М	Р			
Point load centre of side at 2.5mm deflection	LAL	5	5.1	2.6	3.3	3.8		7.7	3.5	4.0	4.3			
Working load centre of side (safety factor 2) (2)	kN	2	2.8	2.8	2.9	3.0		6.6	6.6	6.7	6.8			
Point load centre of panel at 2.5mm deflection	LAL	6	3.8	4.1	4.7	5.2		10.5	6.0	6.5	6.9			
Working load centre of panel (safety factor 2) (2)	kN	4	.9	4.9	5.0	5.1		9.7	9.7	9.8	10.0			
Distributed load at 2.5mm deflection	kN/m²			22.0	26.0	32.0			32.0	36.0	42.0			
Load/deflection class				1/A	1/A	2/A			6/-	6/C	6/C			
Finishing: F L			.R.	S/L	М	Р		S.R.	S/L	М	Р			
Point load centre of side at 2.5mm deflection	- kN	5	5.2	2.7	3.4	3.9		7.9	3.7	4.2	4.5			
Working load centre of side (safety factor 2) (2)		3	3.0	3.0	3.1	3.2	ı	6.7	6.7	6.8	6.9			
Point load centre of panel at 2.5mm deflection		7	'.0	4.3	5.0	5.5		10.7	6.2	6.8	7.2			
Working load centre of panel (safety factor 2) (2)	kN	5	5.3	5.3	5.4	5.5		9.9	9.9	10.0	10.2			
Distributed load at 2.5mm deflection	kN/m ²			23.0	28.0	33.0			33.0	38.0	44.0			
Load/deflection class				2/B	2/A	2/A			6/C	6/C	6/C			
Finishing: T R S		S	.R.	S/L	М	Р		S.R.	S/L	М	Р			
Point load centre of side at 1.0mm deflection		3	3.2	1.6	1.7	1.8		5.0	2.9	3.0	3.1			
Working load centre of side (safety factor 2) (2)	kN	2	2.5	2.5	2.6	2.7	ı	3.8	3.8	3.9	4.0			
Point load centre of panel at 1.0mm deflection		5	5.6	2.8	3.2	3.3		9.8	6.0	6.5	6.9			
Working load centre of panel (safety factor 2) (2)	kN	3	3.2	3.2	3.3	3.4		5.8	5.8	5.9	6.0			
Distributed load at 1.0mm deflection	kN/m²			12.0	14.0	15.0			24.0	28.0	32.0			
Load/deflection class				1/A	1/A	1/A			2/A	2/A	3/A			
Note: the values refer to tests performed with structures up to 600mm height.														

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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/P = with light/medium/heavy stringers.

(2) The ultimate load is obtained multiplying the working load by the safety factor.