

Walking into the future

U UNIFLAIR™

Modular Access Floors

Technical data
Dati tecnici



30L

PARTICLE BOARD 30 mm

30 mm - thick high density particle board core strengthened by suitable high performance resins

BACKING

- 30LA** Backing is in a 0,05 mm - thick aluminium foil, applied on the lower face 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.
- 30LF** To improve flexural stiffness and overall mechanical resistance, the panel is produced by applying a 0,5 mm - thick galvanized steel sheet 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.
- 30LL** To improve the flexural stiffness and overall mechanical resistance, the panel is produced by applying a hard plastic laminate sheet on the backing.
- Edge** the panel is provided with a 0,45 mm - thick plastic edge material that is self-extinguishing, no creaking and PVC free.

FINISHINGS

- A** = aluminium foil
F = galvanized steel
L = hard plastic laminate
V = vinyl
D = linoleum
G = rubber
C = carpet
R = recomposed stone
S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

Test standard		Tolerance		
Nominal dimensions	mm	600 x 600	-0,1 + 0,2	
Thickness	mm	30*	-0,1 + 0,2	
Diagonal difference	mm		0,4	
Density	kg/m ³	720	± 5%	
Weight	kg	7,8	± 5%	
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max
Self-extinguishing edging	UL 94		V0	

* 28 mm for 30LLL and 30LFL products

		30LA	30LF	30LL
Fire resistance	ISO 834	REI 30	REI 15	REI 30
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1	Class 1	Class 1

Mechanical features EN 12825

Load type		30LA + Substructure type				30LF + Substructure type				30LL + Substructure type			
		S	L	M	P	S	L	M	P	S	L	M	P
for panels with top finishing: A V D G C													
Concentrated*, deflection 2,5 mm	kN	1,6	1,6	2,1	2,7	2,3	2,3	2,7	3,1				
Max allowed*	kN	3,3	3,3	3,4	3,5	5,4	5,4	5,5	5,6				
Uniformly distributed load	kN/m ²	9,0	9,0	11,0	16,0	12,0	12,0	14,0	18,0				
Class in accordance with EN 12825		1A	1A	1A	1A	2A	2A	2A	2A				
for panels with top finishing: F L													
only available with L finishing													
Concentrated*, deflection 2,5 mm	kN	1,8	1,8	2,0	2,1	2,9	2,9	3,4	3,8	2,1	2,1	2,6	2,6
Max allowed*	kN	3,9	3,9	4,0	4,1	5,5	5,5	5,6	5,7	5,0	5,0	5,1	5,1
Uniformly distributed load	kN/m ²	9,0	9,0	12,0	17,0	13,0	13,0	15,0	19,0	10,0	10,0	13,0	18,0
Class in accordance with EN 12825		1A	1A	1A	1A	2A	2A	2A	2A	3A	3A	3A	3A
for panels with top finishing: T (30 x 30) R S													
only R S													
Concentrated*, deflection 1,0 mm	kN	3,3	3,3	3,6	3,8	5,3	5,3	5,6	5,8				
Max allowed*	kN	4,5	4,5	4,7	4,9	7,2	7,2	7,4	7,6				
Uniformly distributed load	kN/m ²	16,0	16,0	17,0	18,0	20,0	20,0	21,0	22,0				
Class in accordance with EN 12825		1	1	1	1	3	3	3	3				

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel; for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
L = light stringers
M = medium stringers
P = heavy stringers

EN 12825 - KEY

Load class		1	2	3	4	5	6
	Max load side centre	≥4	≥6	≥8	≥9	≥10	≥12
Deflection class		A	B	C			
	Deflection	mm	2,5	3,0	3,5		

UNIFLAIR policy is one of continuous technological innovation, the Company therefore reserves the right to amend any data herein without prior notice

40L

PARTICLE BOARD 38 mm

38 mm - thick particle board core strengthened by suitable high performance resins

BACKING

- 40LA** Backing is 0,05 mm - thick aluminium foil, applied on the lower face in order to create an excellent fire and humidity barrier and at the same time an equipotential reinforcement for the purpose of maintaining the floor's electrical continuity properties.
- 40LF** To improve the flexural stiffness and its overall mechanical resistance, the panel is produced by applying a 0,5 mm - thick galvanised steel sheet 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.
- 40LL** To improve the flexural stiffness and overall mechanical resistance, the panel is produced by applying a hard plastic laminate sheet on the lower face.
- Edge** The panel is provided with a 0,45 mm - thick black plastic edge material that is self-extinguishing, no creaking and PVC free.

FINISHINGS

- A** = aluminium foil
F = galvanized steel
L = hard plastic laminate
V = vinyl
D = linoleum
G = rubber
C = carpet
P = parquet
T = ceramic
R = recomposed stone
S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

Test standard		Tolerance		
Nominal dimensions	mm	600 x 600	-0,1 + 0,2	
Thickness	mm	38	-0,1 + 0,2	
Diagonal difference	mm		0,4	
Density	kg/m ³	720	± 5%	
Weight	kg	9,8	± 5%	
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max
Self-extinguishing edging	UL 94		V0	

		40LA	40LF	40LL
Fire resistance	ISO 834	REI 60	REI 45	REI 45
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1	Class 1	Class 1

Mechanical features EN 12825

Load type		40LA + Substructure type				40LF + Substructure type				40LL + Substructure type			
		S	L	M	P	S	L	M	P	S	L	M	P
for panels with top finishing: A V D G C P													
Concentrated*, deflection 2,5 mm	kN	2,7	2,7	3,4	3,8	4,0	4,0	4,6	5,1				
Max allowed*	kN	6,7	6,7	6,9	7,0	7,6	7,6	7,7	7,8				
Uniformly distributed load	kN/m ²	14,0	14,0	18,0	22,0	21,0	21,0	25,0	30,0				
Class in accordance with EN 12825		4A	4A	4A	4A	6A	6A	6A	6A				
for panels with top finishing: F L													
Concentrated*, deflection 2,5 mm	kN	3,0	3,0	3,7	4,1	4,2	4,2	4,9	5,3	2,9	2,9	3,8	4,4
Max allowed*	kN	7,1	7,1	7,3	7,4	7,7	7,7	7,8	7,9	6,1	6,1	6,2	6,3
Uniformly distributed load	kN/m ²	15,0	15,0	19,0	23,0	22,0	22,0	26,0	31,0	14,0	14,0	19,0	26,0
Class in accordance with EN 12825		4A	4A	5A	5A	5A	5A	5A	5A	3A	3A	3A	3A
for panels with top finishing: T R S													
Concentrated*, deflection 1,0 mm	kN	2,0	2,0	2,2	2,3	3,0	3,0	3,4	3,5				
Max allowed*	kN	2,4	2,4	2,4	2,5	6,3	6,3	6,4	6,4				
Uniformly distributed load	kN/m ²	8,0	8,0	9,0	11,0	12,0	12,0	13,0	14,0				
Class in accordance with EN 12825		1	1	1	1	3	3	3	3				

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel; for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
L = light stringers
M = medium stringers
P = heavy stringers

EN 12825 - KEY

Load class		1	2	3	4	5	6
	Max load side centre	≥4	≥6	≥8	≥9	≥10	≥12
Deflection class		A	B	C			
	Deflection	mm	2,5	3,0	3,5		

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30K

INERT MATERIAL 30 mm

Made up of a 30 mm - thick single - ply mineral core formulated with high-density calcium sulphate, bonded with fibres featuring remarkable mechanical resistance and entirely free of wood particles.

BACKING

- 30K0** Waterproof film.
- 30KA** 0,05 mm - thick aluminium foil applied on lower face creating an excellent fire and humidity barrier guarding against fire and moisture, and an equipotential reinforcement for the purpose of maintaining the flooring's electrical continuity properties.
- 30KF** To improve flexural stiffness and overall mechanical resistance, backing is in a 0,5 mm-thick galvanized steel sheet on the lower face. This also provides an excellent barrier against fire and moisture, and an equipotential reinforcement for the purpose of maintaining the floor's electrical continuity properties.
- Edge** Panel is provided with a 0,45 mm - thick plastic edge material that is self-extinguishing, no creaking and PVC free.

FINISHINGS

- O** = transparent film
A = aluminium foil
F = galvanized steel
L = hard plastic laminate
V = vinyl
D = linoleum
G = rubber
C = carpet
P = parquet
T = ceramic
R = recomposed stone
S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

	Test standard	Tolerance		
Nominal dimensions	mm	600 x 600	-0,1 + 0,2	
Thickness	mm	30	-0,1 + 0,2	
Diagonal difference	mm		0,4	
Density	kg/m ³	1450	± 5%	
Weight	kg	15,7	± 5%	
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max
Self-extinguishing edging	UL 94		V0	

		30K0	30KA	30KF
Fire resistance	DIN 4102	F 30	F30	
	ISO 834	REI 60	REI 60	REI 45
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1	Class 1	Class 1
Spread of flame	BS 476 pt 7			Class 1

Mechanical features EN 12825

Load type		30K0 + Substructure type				30KA + Substructure type				30KF + Substructure type			
		S	L	M	P	S	L	M	P	S	L	M	P
for panels with top finishing: O A V D G C P													
Concentrated*, deflection 2,5 mm	kN	2,8	2,8	3,6	4,0	2,5	2,5	3,1	3,6	4,4	4,4	4,9	5,2
Max allowed*	kN	4,1	4,1	4,3	4,5	4,1	4,1	4,3	4,5	8,2	8,2	8,3	8,4
Uniformly distributed load	kN/m ²	13,0	13,0	16,0	20,0	13,0	13,0	16,0	20,0	21,0	21,0	24,0	29,0
Class in accordance with EN 12825		1A	1A	1A	1A	1A	1A	1A	1A	4A	4A	5A	5A
for panels with top finishing: F L													
Concentrated*, deflection 2,5 mm	kN	2,7	2,7	3,4	3,9	2,7	2,7	3,4	3,9	4,6	4,6	5,2	5,5
Max allowed*	kN	4,2	4,2	4,4	4,6	4,2	4,2	4,4	4,6	8,4	8,4	8,5	8,6
Uniformly distributed load	kN/m ²	21,0	21,0	24,0	29,0	21,0	21,0	24,0	29,0	23,0	23,0	26,0	31,0
Class in accordance with EN 12825		1A	1A	1A	1A	1A	1A	1A	1A	5A	5A	5A	5A
for panels with top finishing: T R S													
Concentrated*, deflection 1,0 mm	kN	2,4	2,5	2,6	2,7	2,4	2,5	2,6	2,7	2,6	2,6	2,7	2,9
Max allowed*	kN	3,0	3,0	3,1	3,1	3,0	3,0	3,1	3,1	3,1	3,1	3,2	3,3
Uniformly distributed load	kN/m ²	10,0	10,0	11,0	13,0	10,0	10,0	11,0	13,0	11,0	11,0	11,0	14,0
Class in accordance with EN 12825		1	1	1	1	1	1	1	1	1	1	1	1

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel; for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
L = light stringers
M = medium stringers
P = heavy stringers

EN 12825 - KEY

Load class		1	2	3	4	5	6
	Max load side centre	kN	≥4	≥6	≥8	≥9	≥10
Deflection class		A	B	C			
	Deflection	mm	2,5	3,0	3,5		

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35K

INERT MATERIAL 34 mm

Made up of a 34 mm - thick single - ply mineral core formulated with high - density calcium sulphate, bonded with fibres featuring remarkable mechanical resistance and entirely free of wood particles

BACKING

- 35K0** Waterproof film.
- 35KA** 0,05 mm - thick aluminium foil applied in order to create an excellent fire and humidity barrier, and an equipotential reinforcement for the purpose of maintaining the flooring's electrical continuity properties.
- 35KF** To improve flexural stiffness and overall mechanical resistance, backing is in a 0,5 mm-thick galvanised steel sheet on the lower face. This also provides an excellent barrier against fire and moisture, and an equipotential reinforcement for the purpose of maintaining the floor's electrical continuity properties.
- Edge** Panel is provided with a 0,45 mm - thick plastic edge material that is self-extinguishing, no creaking and PVC free.

FINISHINGS

- O** = transparent film
A = aluminium foil
F = galvanized steel
L = hard plastic laminate
V = vinyl
D = linoleum
G = rubber
C = carpet
P = parquet
T = ceramic
R = recomposed stone
S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

	Test standard	Tolerance		
Nominal dimensions	mm	600 x 600	-0,1 + 0,2	
Thickness	mm	34	-0,1 + 0,2	
Diagonal difference	mm		0,4	
Density	kg/m ³	1450	± 5%	
Weight	kg	17,8	± 5%	
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max
Self-extinguishing edging	UL 94		V0	

		35K0	35KA	35KF
Fire resistance	DIN 4102	F 30	F30	
	ISO 834	REI 90	REI 90	REI 60
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1	Class 1	Class 1
Spread of flame	BS 476 pt 7			Class 1

Mechanical features EN 12825

Load type		35K0 + Substructure type				35KA + Substructure type				35KF + Substructure type			
		S	L	M	P	S	L	M	P	S	L	M	P
for panels with top finishing: O A V D G C P													
Concentrated*, deflection 2,5 mm	kN	3,8	3,8	4,4	5,0	3,8	3,8	4,4	5,0	6,0	6,0	6,5	6,9
Max allowed*	kN	4,9	4,9	5,0	5,1	4,9	4,9	5,0	5,1	9,7	9,7	9,8	10,0
Uniformly distributed load	kN/m ²	19,0	19,0	23,0	30,0	19,0	19,0	23,0	30,0	30,0	30,0	33,0	41,0
Class in accordance with EN 12825		3A	3A	3A	3A	3A	3A	3A	3A	6A	6A	6A	6A
for panels with top finishing: F L													
Concentrated*, deflection 2,5 mm	kN	3,9	3,9	4,5	5,1	3,9	3,9	4,5	5,1	6,1	6,1	6,6	7,0
Max allowed*	kN	4,9	4,9	5,0	5,1	4,9	4,9	5,0	5,1	9,7	9,7	9,8	10,0
Uniformly distributed load	kN/m ²	22,0	22,0	25,0	31,0	22,0	22,0	25,0	31,0	30,0	30,0	33,0	41,0
Class in accordance with EN 12825		3A	3A	3A	3A	3A	3A	3A	3A	6A	6A	6A	6A
for panels with top finishing: T R S													
Concentrated*, deflection 1,0 mm	kN	2,7	2,7	3,2	3,3	2,7	2,7	3,2	3,3	6,0	6,0	6,5	6,9
Max allowed*	kN	3,2	3,2	3,3	3,3	3,2	3,2	3,3	3,3	5,8	5,8	5,9	6,0
Uniformly distributed load	kN/m ²	11,0	11,0	12,0	14,0	11,0	11,0	12,0	14,0	21,0	21,0	23,0	25,0
Class in accordance with EN 12825		1	1	1	1	1	1	1	1	2	2	2	3

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel: for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
L = light stringers
M = medium stringers
P = heavy stringers

EN 12825 - KEY

Load class		1	2	3	4	5	6
	Max load side centre	≥4	≥6	≥8	≥9	≥10	≥12
Deflection class		A	B	C			
	Deflection	mm	2,5	3,0	3,5		

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15K

INERT MATERIAL 15 mm

Made up of a 12,5 mm - thick inert single - ply mineral material formulated with calcium sulphate. Top finishing consists of a full sheet of natural marble or granite, nominal thickness 20 mm, ground, polished and chamfered.

The panel's machining includes precision grinding to assure dimensional tolerances both around the perimeter and in terms of panel thickness so as to assure perfect modularity.

BACKING

15 KF To improve flexural rigidity and overall mechanical resistance the panel is produced by applying a 0,5 mm - thick galvanised steel sheet on the lower face. This also provides an excellent barrier against fire and moisture, and an equipotential reinforcement for the purpose of maintaining the flooring's electrical continuity properties.

Edge The panel has no perimetral edging.

FINISHINGS

S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

	Test standard			Tolerance
Nominal dimensions		mm	594 x 594	-0,1 + 0,2
Thickness		mm	12,5	-0,1 + 0,2
Diagonal difference		mm		0,4
Density		kg/m ³	1100	± 5%
Weight*		kg	4,8	± 5%
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max

* weight of natural granite (S) finishing is a determining factor - 1 kg/mm - thick each.

15KF

Fire resistance	ISO 834	REI 60
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1

Mechanical features EN 12825

15KF + Substructure type

Load type		S	L	M	P	S	L	M	P	S	L	M	P
for panels with top finishing: S													
Concentrated*, deflection 1,0 mm	kN	2,4	2,4	2,4	2,4								
Max allowed*	kN	4,9	4,9	5,0	5,1								
Uniformly distributed load	kN/m ²	30,0	30,0	33,0	38,0								
Class in accordance with EN 12825		3	3	3	3								

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel: for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
- L** = light stringers
- M** = medium stringers
- P** = heavy stringers

EN 12825 - KEY

Load class			1	2	3	4	5	6
	Max load side centre	kN	≥4	≥6	≥8	≥9	≥10	≥12
Deflection class			A	B	C			
	Deflection	mm	2,5	3,0	3,5			

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42C

COMPOSITE PANEL 42 mm

Made up of a 12,5 mm - thick mineral inert sheet formulated with calcium sulphate, and a 30 mm - thick particle board panel strengthened by suitable high performance resins

BACKING

- 42CA** 0,05 mm - thick aluminium foil applied in order to create an excellent fire and moisture barrier and at the same time an equipotential reinforcement for the purpose of maintaining the floor's electrical continuity properties.
- 42CF** To improve the flexural stiffness and overall mechanical resistance, the panel is produced by applying a 0,5 mm - thick galvanized steel sheet on the lower face. This also provides an excellent barrier guarding against fire and moisture and at the same time an equipotential reinforcement for the purpose of maintaining the floor's electrical continuity properties.
- Edge** Panel is provided with a 0,45 mm - thick black plastic edge material that is self-extinguishing, no creaking and PVC free.

FINISHINGS

- A** = aluminium foil
F = galvanized steel
L = hard plastic laminate
V = vinyl
D = linoleum
G = rubber
C = carpet
P = parquet
T = ceramic
R = recomposed stone
S = natural stone

PHYSICAL CHARACTERISTICS (NO TOP FINISHING)

	Test standard		Tolerance	
Nominal dimensions	mm	600 x 600	-0,1 + 0,2	
Thickness	mm	34	-0,1 + 0,2	
Diagonal difference	mm		0,4	
Density	kg/m ³	1450	± 5%	
Weight	kg	17,8	± 5%	
Transverse electrical resistance	EN 1081	Ω	1 x 10 ¹⁰	max
Self-extinguishing edging	UL 94		V0	
		42CA	42CF	
Fire resistance	DIN 4102 ISO 834	F 30 REI 90	F30 REI 90	
Flame spread class	CSE/RF 2/75/A CSE/RF 3/77	Class 1	Class 1	

Mechanical features EN 12825

Load type		42CA + Substructure type				42CF + Substructure type				S	L	M	P	
		S	L	M	P	S	L	M	P					
for panels with top finishing: A V D G C P														
Concentrated*, deflection 2,5 mm	kN	3,2	3,2	3,8	4,0	5,0	5,0	5,6	6,2					
Max allowed*	kN	4,7	4,7	4,8	4,9	9,2	9,2	9,3	9,4					
Uniformly distributed load	kN/m ²	16,0	16,0	19,0	24,0	25,0	25,0	29,0	37,0					
Class in accordance with EN 12825		2A	2A	2A	2A	5A	5A	5A	5A					
for panels with top finishing: F L														
Concentrated*, deflection 2,5 mm	kN	3,3	3,3	3,9	4,1	5,1	5,1	5,6	6,3					
Max allowed*	kN	4,8	4,8	4,8	4,9	9,3	9,3	9,4	9,4					
Uniformly distributed load	kN/m ²	16,0	16,0	19,0	24,0	25,0	25,0	29,0	37,0					
Class in accordance with EN 12825		2A	2A	2A	2A	5A	5A	5A	5A					
for panels with top finishing: T R S														
Concentrated*, deflection 1,0 mm	kN	2,0	2,0	2,1	2,3	2,4	2,4	2,6	2,8					
Max allowed*	kN	2,6	2,6	2,6	2,7	3,4	3,4	3,5	3,8					
Uniformly distributed load	kN/m ²	9,0	9,0	10,0	11,0	12,0	12,0	13,0	14,0					
Class in accordance with EN 12825		1	1	1	1	3	3	3	3					

N.B. with deflection higher than 1 mm possible creaking on top finishing material

KEY

- * All values are referring to the centre of the panel: for side centre values see UNIFLAIR access floor EDM
- S** = without stringers
L = light stringers
M = medium stringers
P = heavy stringers

EN 12825 - KEY

Load class		1	2	3	4	5	6
	Max load side centre	≥4	≥6	≥8	≥9	≥10	≥12
Deflection class		A	B	C			
	Deflection	mm	2,5	3,0	3,5		

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Note

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