

Technical Specification

Inovar AC3/W31 Flooring System

Test Methods:

Tech. Properties	Standard	Short Test Description
Abrasion Resistance	EN 13329	Taber Abraser test, two weighted rollers with sandpaper are run on specimen. Measured, is the number of revolutions for 'IP', first visible attack on surface, 'AT' medium value between 'IP' and 'FP', surface ground through to underlay/core.
Scratch Resistance	EN 438-2 ISO 1518	A diamond tipped, weighted spring is drawn across the specimen. The results are registered and the lowest value, showing a visible mark on the surface is listed. The measurement is done in Newton.
Load Resistance	DIN 51955	A cylindrical stamp with a defined load is put on specimen. Measured is the impression under load and after removal of load
Impact Resistance	EN 438 EN 13329	Falling ball test, a ball with a diameter 42,8mm and 324 gr. Weight falls on specimen. Measured is the maximum height without damage.
Suitability for chairs with castors (soft)	DIN 54324	A weighted chair castor is moved in a circle on the specimen. After a defined number of revolutions – 50.000/100.000 the specimen is visually inspected for damage.
Stain Resistance	EN 438.2.15	A number of substances commonly used in day-to-day life is applied to specimen. I.e. foodstuff. Drinks (citric acid etc.), nail polish, shoe polish and then removed. The surface is inspected for permanent stains/changes
Porosity	Graphite Test 1	A mixture of graphite and oil is applied to specimen. The remaining Graphite residue is measured in grade 0 = non porous to 5 = surface very porous.
Light fastness	EN 438.2.6	Changes are measured against blue scale, grade 6 = no change.
Resistance against Cigarette burns	EN 438	A lit cigarette is put on surface for a defined period of time. After removal no surface damage is allowed, however, slight discolouration is permissible
Cracking resistance	EN 438-2.26	Specimen is subjected to large temperature change. No cracks permissible
Fire Resistance	DIN 4102	For flooring B1 = difficult inflammability applies
Formaldehyde Emission	EN 213	Measured in permissible ppm emission. For Europe E1 applies.
Electrical Resistance	DIN 53482	ro. 10 to power of 9 ohm to 10 to power of 12 ohm.
Waste disposal		Normal household waste, no PDB, Dioxine or Furane emission when burned
Thickness swelling	EN 13329	Panel is immersed in water @ 20°C, for 24 hours, measured is the difference in thickness between the start & completion of the test.
Joint Strength	EPH ISO CD 24334	Panels are clamped into machine TIRA test 24100, tensile test executed @ 10N @ test speed 0.15mm/min until tensile stress of 100N & continuation of tensile test @ speed 0.5mm/min until joint opening of 3mm.

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Top Surface	Melamine Impregnated Decorative Film. Protected by Anti Abrasive Overlay.
Core Material	H.D.F. (High Density Conifer Fibreboard) with an average density > 850 kg/m ³
Bottom Surface	Balancing Film.
Thickness	8mm.
Length	1216mm.
Width	196mm.
Fit for use Grading	AC3/W31 EN 13329 compliance.
Installation method	Licensed Valinge Interlocking click system (Glueless Installation)
Warranty	15 Years Heavy Domestic 5 years Moderate Commercial use.

Technical Data

TEST	STANDARD	CHARACTERISTICS/ RESULTS
Behavior to impact Load.	EN 13329	IC 2 - height of fall 1700 MM is the maximum height without damage (1750 MM Height)
Behavior to Abrasion	EN 13329	AT> 2500 Revolutions
Behavior to Scratching	ISO 1518	> 25N
Insensitivity of wear layer to stains	EN 438.2.15	Rating 5 (no effect).
Porosity	Graphite test 1	Grade 1 (Pore-free).
Light fastness/UV resistance	EN 438.2.6	Level 6 (Blue Wool Standard) Note: Changes are measured against Blue scale. Grade 6 = No Change.
Resistant to glowing cigarette ash	EN 438.2.18	Degree 5: No Visible Changes.
Formaldehyde Emission	E.T.B. Regulation	Measured in Permissible P.P.M. Emission. Approved and Test at Quality E 1.
Waste Disposal	N/A	Residual materials disposable with domestic waste. No Toxic fumes released during thermal disposal.
Fire Classification	DIN 4102	Flame-Retardant - B1.
Ignibility	DIN 51960	Does Not Ignite Easily.
Smoke Development	0 – Norm B3800/1	Class Q1 – Low smoke development Austrian Institute for Floor Covering).
Indentation Test	DIN 51955	Residual Indentation 0.0 mm (I.B.A – Koblenz).
Chair Castor Test	DIN 54324	No Negative changes when using soft wheel castors Type W (I.B.A. Koblenz)
Susceptibility to Cracking	EN 438-2.26	No Cracks Observable. Specimen is Subjected to Large Temperature Change
Simulated pushing of Furniture leg.	EN 424	No visible damage.
Thickness swelling test	EN 13329	< 15% swelling.
Joint Strength	EPH ISO CD 24334	600 kg/lin.m