

Technical specifications

		for parquet, laminate and design flooring with HDF carrier			for rigid and click LVT		with anti-slip properties for click LVT		for dryback design flooring
Acoustic requirements	EPLF/FEP-requirement (Enhanced requirement)	ONE / ONE+	AIR / AIR+	MMFA-requirement (Enhanced requirement)	VIN	VIO*	VIN+	VIO*+	VINYL SK
Radiated walking sound (RWS)^{1,2)} Reduction in sound emissions in the room, even when walked on	tested according to EPLF draft standard 021029-5	10 %	30 %	-	-	-	-	-	-
Radiated walking Sound (RWS)^{1,2)} Noise emissions generated inside the room itself when walking on the flooring	≤ 110 Sone	84.7 / 98.3 Sone	81.8 / 79.7 Sone	-	59.8 Sone	62.6 Sone	59.9 Sone	62.6 Sone	-
Impact sound reduction (IS)^{1,2)} Reduction in impact sound in adjacent rooms and rooms underneath	14 dB (18)	19 / 20 dB	20 dB	10 dB (18)	21 dB ³⁾	18 dB ³⁾	21 dB ³⁾	18 dB ³⁾	17 dB ³⁾
Usage requirements									
Dynamic load (DL) Retains essential properties, provides mechanical protection	≥ 10.000 cycles (100.000)	≥ 10.000 cycles	≥ 1 Mio. cycles	≥ 10.000 cycles (100.000)	≥ 1 Mio. cycles	≥ 1 Mio. cycles	≥ 1 Mio. cycles	≥ 1 Mio. cycles	≥ 200.000 cycles
Compressive Creep (CC) Long-term retention of essential properties (10 years)	≥ 2 kPa (20)	≥ 2 kPa	40 kPa	≥ 10 kPa (35)	35 kPa	40 kPa	35 kPa	40 kPa	40 kPa
Compressive Strength (CS) Protects the joining system, protects joints from rupture	≥ 10 kPa (60)	≥ 60 kPa	≥ 140 kPa	≥ 200 kPa (400)	≥ 400 kPa	≥ 700 kPa	≥ 400 kPa	≥ 700 kPa	≥ 600 kPa
Impact resistance (RLB) Protects the surface from falling objects	≥ 500 mm (1200)	800 mm	1.200 mm	-	-	-	-	-	-
Structural requirements									
Thermal resistance (R_{λ,B})²⁾ Suitable for underfloor heating (H) or cooling (C) below the underlay	≤ 0,15 m ² K/W	0,04 m ² K/W	0,05 m ² K/W	≤ 0,15 m ² K/W	0,02 m ² K/W	0,02 m ² K/W	0,02 m ² K/W	0,02 m ² K/W	0,02 m ² K/W
Punctually conformability (PC) Prevents sound bridges, provides mechanical protection	≥ 0.5 mm	1.1 mm	1,4 mm	≥ 0.5 mm	0.8 mm	0.5 mm	0.8 mm	0.5 mm	0.5 mm
Moisture (SD) Protects against damage from moisture	≥ 75 m	- / 75 m	- / 200 m	≥ 75 m	-	75 m	80 m	100 m	75 m
Absorption of water (WA) Encourages growth of mildew	EN 12087 (not a requirement from EPLF)	< 1 %	< 1 %	EN 12087 (not a requirement from MMFA)	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %

1) Values for reduction in impact sound and improvement in footfall noise are tested in accordance with standard set-ups. These values may vary in practice due to the individual types of building and building products and their arrangement. 2) in this case, the entire floor covering system is tested and assessed 3) tested under vinyl design flooring