

# Technical data sheet

## Underlays

	Akustik-Protect	Uno-Protect	Duo-Protect	Plan-Protect
<b>Product specifications</b>				
Dimensions (length x width)	7490 x 935 mm	1200 mm (width)	1200 mm (width)	790 x 590 mm
m <sup>2</sup> / roll / pack	7 m <sup>2</sup>	10 / 30 m <sup>2</sup>	10 / 30 m <sup>2</sup>	7 m <sup>2</sup>
Thickness	2,0 mm	2,5 mm	2,9 mm	5,0 mm
Weight	1,9 kg/m <sup>2</sup>	0,18 kg/m <sup>2</sup>	0,22 kg/m <sup>2</sup>	1,38 kg/m <sup>2</sup>
Water-vapour permeability (DIN 52615)	sd >10 (m) PE foil necessary	sd 0,03 (m) PE foil necessary	sd 15,7 (m) noisture barrier	sd 0,025 (m) PE foil necessary
Thermal transfer resistance (DIN EN 12664)	0,02 m <sup>2</sup> K/W	0,058 m <sup>2</sup> K/W	0,058 m <sup>2</sup> K/W	0,10 m <sup>2</sup> K/W
Thermal conductivity (DIN EN 12664)	0,218 W/(m*K)	0,043 W/(m*K)	0,043 W/(m*K)	0,05 W/(m*K)
<b>Environment</b>				
Formaldehyde (E1 = 0.1ppm)	N/A	< 0,05 ppm	< 0,05 ppm	< 0,05 ppm
Environmental label "Blauer Engel"	RAL-UZ38 * <sup>1</sup>	RAL-UZ36	RAL-UZ36	RAL-UZ38
LGA "tested for contaminants"	fulfilled	fulfilled	fulfilled	fulfilled
Disposal:	material and re-usable	material and re-usable	material and re-usable	material and re-usable
AltholzV, KrW-/AbfG, Test conditions for secondary fuels	energy source	energy source	energy source	energy source

## Physical qualities

### Thermal transfer resistance DIN EN 12664:2001

Classic 1050	0,057 m <sup>2</sup> K/W	0,106 m <sup>2</sup> K/W	0,106 m <sup>2</sup> K/W	0,118 m <sup>2</sup> K/W
Classic 1040, Classic 1030	0,052 m <sup>2</sup> K/W	0,101 m <sup>2</sup> K/W	0,101 m <sup>2</sup> K/W	0,113 m <sup>2</sup> K/W
Classic 1020	0,047 m <sup>2</sup> K/W	0,096 m <sup>2</sup> K/W	0,096 m <sup>2</sup> K/W	0,108 m <sup>2</sup> K/W
Laminat Trendtime 1, 2, 3, 4, 5, Stone Click	0,057 m <sup>2</sup> K/W	0,106 m <sup>2</sup> K/W	0,106 m <sup>2</sup> K/W	0,118 m <sup>2</sup> K/W
Classic 3050, 3020, Engineered Wood Flooring Trendtime 1, 4	0,125 m <sup>2</sup> K/W	0,174 m <sup>2</sup> K/W	0,174 m <sup>2</sup> K/W	0,186 m <sup>2</sup> K/W
Engineered Wood Flooring Trendtime 2, 3	0,121 m <sup>2</sup> K/W	0,170 m <sup>2</sup> K/W	0,170 m <sup>2</sup> K/W	0,182 m <sup>2</sup> K/W

### Thermal conductivity DIN EN 12664:2001

Classic 1050	0,382 W/(m*K)	0,207 W/(m*K)	0,207 W/(m*K)	0,234 W/(m*K)
Classic 1040, Classic 1030	0,382 W/(m*K)	0,207 W/(m*K)	0,207 W/(m*K)	0,234 W/(m*K)
Classic 1020	0,381 W/(m*K)	0,206 W/(m*K)	0,206 W/(m*K)	0,233 W/(m*K)
Laminat Trendtime 1, 2, 3, 4, 5, Stone Click	0,382 W/(m*K)	0,207 W/(m*K)	0,207 W/(m*K)	0,234 W/(m*K)
Classic 3050, 3020, Engineered Wood Flooring Trendtime 1, 4	0,333 W/(m*K)	0,158 W/(m*K)	0,158 W/(m*K)	0,185 W/(m*K)
Engineered Wood Flooring Trendtime 2, 3	0,316 W/(m*K)	0,141 W/(m*K)	0,141 W/(m*K)	0,168 W/(m*K)

### Transmission noise reduction (ISO 140-8) Δ L<sub>w</sub>

Classic 1050	18 db	18 db	18 db	19 db
Classic 1040, Classic 1030	18 db	18 db	18 db	19 db
Classic 1020	17 db	17 db	17 db	19 db
Laminat Trendtime 1, 2, 3, 4, 5, Stone Click	18 db	18 db	18 db	19 db
Classic 3050, 3020, Engineered Wood Flooring Trendtime 1, 4	16 db	19 db	19 db	15 db
Engineered Wood Flooring Trendtime 2, 3	18 db	22 db	22 db	19 db
LaStrada (Installation with clamps)	15 db	16 db	16 db	16 db
Solido Click, Solid Wood Flooring Trendtime1, 2	16 db	16 db	16 db	16 db

### Ambience sounds acc. to EPLF-021029-3 (the values state the reduction of ambience sounds compared to installation on Noppa-foam)

Classic 1050	19 Sone	10 Sone	10 Sone
Classic 1040, Classic 1030	18 Sone	5 Sone	5 Sone
Classic 1020	18 Sone	5 Sone	5 Sone
Laminat Trendtime 1, 2, 3, 4, 5, Stone Click	19 Sone	10 Sone	10 Sone
Classic 3050, 3020, Engineered Wood Flooring Trendtime 1, 4	k.A.	k.A.	k.A.
Engineered Wood Flooring Trendtime 2, 3	k.A.	k.A.	k.A.
LaStrada (Installation with clamps)	k.A.	k.A.	k.A.
Solido Click, Solid Wood Flooring Trendtime1, 2	k.A.	k.A.	k.A.



\*<sup>1</sup> in combination with PARADOR Laminat / Engineered Wood Flooring