

# marena | Technical characteristics

Description		
Direct Pressure Laminate according to EN 13329 for glueless installation		
Fields of use		
Laminate <b>marena</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001		
Technical details		
<b>Measure</b>	1288 x 192 mm	
<b>Product thickness</b>	8 mm	
<b>Packaging</b>	Box: 9 panels / 2,23 m <sup>2</sup> / 16 kg Pallet: 52 boxes / 115,96 m <sup>2</sup> / 847 kg	
<b>Quality Guarantee* Domestic area</b>	20 years	
Design		
	1 <b>Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - fine wooden pore - exclusive wood structure - silk matt	
	2 <b>Decor paper</b> Decorative film	
	3 <b>Core board</b> Aqua-Protect®	
	4 <b>Waterproof edging</b> Water-repellent moisture protection	
	5 <b>Click installation (glueless)</b> LocTec® technology	
Classification		
	Test Method Standard	Marking acc. Standard
<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés
LocTec® technology	-	Optimum fit with longer durability
Aqua-Protect® core board	-	Especially protected core board against moisture
Abrasion resistance	EN 13329, annex E	AC 4
Impact resistance	EN 13329, annex F	IC 2
Reaction to fire	EN 13501-1	C <sub>fl</sub> s1
Slip resistance	EN 13893	μ ≥ 0.3 DS
Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
Static indentation	EN ISO 24343-1	≤ 0.01 mm
Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
Effect of a castor chair	EN 425	No change in appearance - Type W
<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W – floating installation
Formaldehyde emission	EN 717-1	E1
<b>Environment/Disposal</b>	<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201
* acc. to Windmüller warranty conditions – www.wineo.de		<b>Relevant information:</b> - Cleaning and care: see separate cleaning & care instruction - No release for glue-down - Technical subjects can be changed by windmüller flooring products WFP GmbH.

# marena V2 | Technical characteristics

Description		Design	
Direct Pressure Laminate according to EN 13329 for glueless installation			
Fields of use			
Laminate <b>marena V2</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001			
Technical details		Design	
Measure	1380 x 192 mm		1
Product thickness	8 mm		2
Packaging	Box: 9 panels / 2.38 m <sup>2</sup> / 17.75 kg Pallet: 52 boxes / 123.76 m <sup>2</sup> / 938 kg		3
Quality Guarantee* Domestic Area	20 years		4
			5
		1	<b>Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - registered embossed surface with two-sided joint (V2)
		2	<b>Decor paper</b> Decorative film
		3	<b>Core board</b> Aqua-Protect®
		4	<b>Waterproof edging</b> Water-repellent moisture protection
		5	<b>Click installation (glueless)</b> LocTec® technology
Classification			
		Test Method Standard	Marking acc. Standard
	<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
	<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés
	LocTec® technology	-	Optimum fit with longer durability
	Aqua-Protect® core board	-	Especially protected coreboard against moisture
	Authentic groove design 2-sides	-	-
	Abrasion resistance	EN 13329, annex E	AC 4
	Impact resistance	EN 13329, annex F	IC 2
	Reaction to fire	EN 13501-1	C <sub>fl</sub> s1
	Slip resistance	EN 13893	μ ≥ 0.3 DS
	Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
	Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
	Static indentation	EN ISO 24343-1	≤ 0.01 mm
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
	Effect of a castor chair	EN 425	No change in appearance - Type W
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W - floating installation
	Formaldehyde emission	EN 717-1	E1
<b>Environment/Disposal</b>		<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**

- Cleaning and care: see separate cleaning & care instruction
- No release for glue-down
- Technical subjects can be changed by windmüller flooring products WFP GmbH

# marena XL V4 | Technical characteristics

<b>Description</b>			
Direct Pressure Laminate according to EN 13329 for glueless installation			
<b>Fields of use</b>			
Laminate <b>marena XL V4</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001			
<b>Technical details</b>		<b>Design</b>	
<b>Measure</b>	1845 x 243 mm		<p><b>1 Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - rough sawn - matt surface with four-sided joint (V4)</p> <p><b>2 Decor paper</b> Decorative film</p> <p><b>3 Core board</b> Aqua-Protect®</p> <p><b>4 Waterproof edging</b> Water-repellent moisture protection</p> <p><b>5 Click installation (glueless)</b> LocTec® technology</p>
<b>Product thickness</b>	10 mm		
<b>Packaging</b>	Box: 5 panels / 2.24 m <sup>2</sup> / 20.45 kg Pallet: 48 boxes / 107.52 m <sup>2</sup> / 997 kg		
<b>Quality Guarantee*</b> Domestic Area	20 years		
<b>Classification</b>			
		<b>Test Method Standard</b>	<b>Marking acc. Standard</b>
	<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
	<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés
	LocTec® technology	-	Optimum fit with longer durability
	Aqua-Protect® core board	-	Especially protected coreboard against moisture
	Authentic groove design 4-sides	-	-
	Abrasion resistance	EN 13329, annex E	AC 4
	Impact resistance	EN 13329, annex F	IC 2
	Reaction to fire	EN 13501-1	C <sub>IL</sub> s1
	Slip resistance	EN 13893	μ ≥ 0.3 DS
	Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
	Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
	Static indentation	EN ISO 24343-1	≤ 0.01 mm
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
	Effect of a castor chair	EN 425	No change in appearance - Type W
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W - floating installation
	Formaldehyde emission	EN 717-1	E1
<b>Environment/Disposal</b>		<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**

- Cleaning and care: see separate cleaning & care instruction
- No release for glue-down
- Technical subjects can be changed by windmüller flooring products WFP GmbH.

# marena maxi V2 | Technical characteristics

<b>Description</b>			
Direct Pressure Laminate according to EN 13329 for glueless installation			
<b>Fields of use</b>			
Laminate <b>marena maxi V2</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001			
<b>Technical details</b>		<b>Design</b>	
<b>Measure</b>	1380 x 243 mm		<b>1</b> <b>Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - silk matt - registered embossed surface with two-sided joint (V2)
<b>Product thickness</b>	8 mm		<b>2</b> <b>Decor paper</b> Decorative film
<b>Packaging</b>	Box: 7 panels / 2.35 m <sup>2</sup> / 17.15 kg Pallet: 51 boxes / 119.85 m <sup>2</sup> / 890 kg		<b>3</b> <b>Core board</b> Aqua-Protect®
<b>Quality Guarantee*</b>	20 years		<b>4</b> <b>Waterproof edging</b> Water-repellent moisture protection
<b>Domestic area</b>			<b>5</b> <b>Click installation (glueless)</b> LocTec® technology
<b>Classification</b>			
		<b>Test Method Standard</b>	<b>Marking acc. Standard</b>
	<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
	<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés
	LocTec® technology	-	Optimum fit with longer durability
	Aqua-Protect® core board	-	Especially protected coreboard against moisture
	Authentic groove design 2-sides	-	-
	Abrasion resistance	EN 13329, annex E	AC 4
	Impact resistance	EN 13329, annex F	IC 2
	Reaction to fire	EN 13501-1	C <sub>fl</sub> s1
	Slip resistance	EN 13893	μ ≥ 0.3 DS
	Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
	Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
	Static indentation	EN ISO 24343-1	≤ 0.01 mm
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
	Effect of a castor chair	EN 425	No change in appearance - Type W
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W - floating installation
	Formaldehyde emission	EN 717-1	E1
	<b>Environment/Disposal</b>	Private disposal: like laminated furniture; possible with normal domestic refuse Commercial disposal:	Refuse-key-no. AVV 170201

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**  
 - Cleaning and care: see separate cleaning & care instruction  
 - No release for glue-down  
 - Technical subjects can be changed by windmüller flooring products WFP GmbH

# marena stone V4 | Technical characteristics

Description		
Direct Pressure Laminate according to EN 13329 for glueless installation		
Fields of use		
Laminate <b>marena stone V4</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001		
Technical details	Design	
<b>Measure</b>	596 x 306 mm	
<b>Product thickness</b>	8 mm	
<b>Packaging</b>	Box: 10 panels / 1.82 m <sup>2</sup> / 13.30 kg Pallet: 60 boxes / 109.20 m <sup>2</sup> / 813 kg	
<b>Quality Guarantee*</b>	20 years	
<b>1 Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - soft surface - tile texture with four-sided joint (V4)		
<b>2 Decor paper</b> Decorative film		
<b>3 Core board</b> Aqua-Protect®		
<b>4 Waterproof edging</b> Water-repellent moisture protection		
<b>5 Click installation (glueless)</b> LocTec® technology		
Classification		
	Test Method Standard	Marking acc. Standard
<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés
LocTec® technology	-	Optimum fit with longer durability
Aqua-Protect® core board	-	Especially protected coreboard against moisture
Authentic groove design 4-sides	-	-
<b>AC4</b> Abrasion resistance	EN 13329, annex E	AC 4
Impact resistance	EN 13329, annex F	IC 2
Reaction to fire	EN 13501-1	C <sub>fl</sub> s1
Slip resistance	EN 13893	μ ≥ 0.3 DS
Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
Static indentation	EN ISO 24343-1	≤ 0.01 mm
Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
Effect of a castor chair	EN 425	No change in appearance - Type W
<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W - floating installation
<b>E1</b> Formaldehyde emission	EN 717-1	E1
<b>Environment/Disposal</b>	<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**  
 - Cleaning and care: see separate cleaning & care instruction  
 - No release for glue-down  
 - Technical subjects can be changed by windmüller flooring products WFP GmbH.

# piazza | Technical characteristics

<b>Description</b>			
Direct Pressure Laminate according to EN 13329 for glueless installation			
<b>Fields of use</b>			
Laminate <b>piazza</b> is suitable for heavy domestic and heavy commercial use (EN 13329 – 23/33) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001			
<b>Technical details</b>		<b>Design</b>	
<b>Measure</b>	1288 x 192 mm		<b>1 Overlay</b> Especially resistant melamine resin overlay <b>Surface (depend on decor)</b> - matt surface - rough sawn
<b>Product thickness</b>	8 mm		<b>2 Decor paper</b> Decorative film
<b>Packaging</b>	Box: 9 panels / 2.23 m <sup>2</sup> / 16.70 kg Pallet: 52 boxes / 115.96 m <sup>2</sup> / 883 kg		<b>3 Underlayer</b> Additional strong film
<b>Quality Guarantee*</b> Domestic area	25 years		<b>4 Core board</b> Aqua-Protect®, FSC certified
windmöller flooring products WFP GmbH Nord-West-Ring 21 D-32832 Augustdorf Laminatfußboden DOP 0101001 EN 14041:2004 Laminate Flooring to be used within a building.		windmöller flooring products WFP GmbH Z-156.606-410 Besondere Zulassung für den Einsatz in Wohngebäuden UPECS CSTB piazza Use: P <sub>1</sub> F <sub>1</sub> C <sub>2</sub> 511-032 FSC® C019917 Das Zeichen für verantwortungsvolle Waldbirtschaft.	
Information représentative des émissions dans l'air intérieur des substances volatiles présentant un risque de toxicité par inhalation, sur une échelle de classe allant de C (fortes émissions) à A+ (très faibles émissions)			
<b>Classification</b>			
		<b>Test Method Standard</b>	<b>Marking acc. Standard</b>
	<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices
	<b>Utilization class 33</b> Heavy commercial use	EN ISO 10874	Large offices, public buildings, department stores
	LocTec® technology	-	Optimum fit with longer durability
	Aqua-Protect® FSC certified	-	Especially protected coreboard against moisture
	Suitable for cleaning with Kärcher Floor scrubber BR 400	-	-
	Abrasion resistance	EN 13329, annex E	AC 5
	Impact resistance	EN 13329, annex F	IC 3
	Reaction to fire	EN 13501-1	C <sub>fl</sub> s1
	Slip resistance	EN 13893	μ ≥ 0.3 DS
	Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4
	Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4
	Static indentation	EN ISO 24343-1	≤ 0.01 mm
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0
	Effect of a castor chair	EN 425	No change in appearance - Type W
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.06 (m <sup>2</sup> K)/W - floating installation
	Formaldehyde emission	EN 717-1	E1
<b>Environment/Disposal</b>		<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**  
 - Cleaning and care: see separate cleaning & care instruction  
 - No release for glue-down  
 - Technical subjects can be changed by windmöller flooring products WFP GmbH.

# piazza maxi | Technical characteristics




Description									
Direct Pressure Laminate according to EN 13329 for glueless installation									
Fields of use									
Laminate <b>piazza maxi</b> is suitable for heavy domestic and heavy commercial use (EN 13329 – 23/33) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-410 / Declaration of Performance DOP 0101001									
Technical details	Design								
<table border="1"> <tr> <td><b>Measure</b></td> <td>1380 x 243 mm</td> </tr> <tr> <td><b>Product thickness</b></td> <td>10 mm</td> </tr> <tr> <td><b>Packaging</b></td> <td>Box: 6 panels / 2.01 m<sup>2</sup> / 18 kg Pallet: 48 boxes / 96.48 m<sup>2</sup> / 879 kg</td> </tr> <tr> <td><b>Quality Guarantee*</b> Domestic area</td> <td>25 years</td> </tr> </table>	<b>Measure</b>	1380 x 243 mm	<b>Product thickness</b>	10 mm	<b>Packaging</b>	Box: 6 panels / 2.01 m <sup>2</sup> / 18 kg Pallet: 48 boxes / 96.48 m <sup>2</sup> / 879 kg	<b>Quality Guarantee*</b> Domestic area	25 years	
<b>Measure</b>	1380 x 243 mm								
<b>Product thickness</b>	10 mm								
<b>Packaging</b>	Box: 6 panels / 2.01 m <sup>2</sup> / 18 kg Pallet: 48 boxes / 96.48 m <sup>2</sup> / 879 kg								
<b>Quality Guarantee*</b> Domestic area	25 years								
Classification									
	Test Method Standard	Marking acc. Standard							
<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices							
<b>Utilization class 33</b> Heavy commercial use	EN ISO 10874	Large offices, public buildings, department stores							
LocTec® technology	-	Optimum fit with longer durability							
Aqua-Protect® FSC certified	-	Especially protected coreboard against moisture							
Suitable for cleaning with Kärcher Floor scrubber BR 400	-	-							
Abrasion resistance	EN 13329, annex E	AC 5							
Impact resistance	EN 13329, annex F	IC 3							
Reaction to fire	EN 13501-1	C <sub>FL</sub> s1							
Slip resistance	EN 13893	μ ≥ 0.3 DS							
Anti-Static characteristics	Test of Windmüller according to EN 1815	≤ 2 kV							
Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4							
Resistance to cigarette burns	EN 438-2	Slight change of the surface ≥ grade 4							
Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6 Grey scale: ≥ 4							
Static indentation	EN ISO 24343-1	≤ 0.01 mm							
Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0							
Effect of a castor chair	EN 425	No change in appearance - Type W							
<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	< 0.08 (m <sup>2</sup> K)/W - floating installation							
Formaldehyde emission	EN 717-1	E1							
<b>Environment/Disposal</b>	<b>Private disposal:</b> like laminated furniture; possible with normal domestic refuse <b>Commercial disposal:</b>	Refuse-key-no. AVV 170201							

\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**

- Cleaning and care: see separate cleaning & care instruction
- No release for glue-down
- Technical subjects can be changed by windmüller flooring products WFP GmbH.

# ariosa | Technical characteristics

Description																			
Direct Pressure Laminate according to EN 13329 for glueless installation																			
Fields of use																			
Laminate <b>ariosa</b> is suitable for heavy domestic and heavy commercial use (EN 13329 - 33) "Allgemeine bauaufsichtliche Zulassung": Z-156.606-772																			
Technical details	Design																		
<table border="1"> <tr> <td><b>Measure</b></td> <td>1845 x 188 mm</td> </tr> <tr> <td><b>Produkt thickness</b></td> <td>12 mm</td> </tr> <tr> <td><b>Packaging</b></td> <td>Box: 4 panels / 1.39 m<sup>2</sup> / 15,45 kg Pallet: 56 boxes / 77.84 m<sup>2</sup> / 880 kg</td> </tr> <tr> <td><b>Quality Guarantee*</b> Domestic area</td> <td>15 years</td> </tr> </table>	<b>Measure</b>	1845 x 188 mm	<b>Produkt thickness</b>	12 mm	<b>Packaging</b>	Box: 4 panels / 1.39 m <sup>2</sup> / 15,45 kg Pallet: 56 boxes / 77.84 m <sup>2</sup> / 880 kg	<b>Quality Guarantee*</b> Domestic area	15 years	 <table border="1"> <tr> <td>1</td> <td><b>Overlay</b> Especially resistant melamine resin overlay</td> </tr> <tr> <td>2</td> <td><b>Decor paper</b> Decorative film</td> </tr> <tr> <td>3</td> <td><b>Underlay</b> Additional strong film</td> </tr> <tr> <td>4</td> <td><b>Core board</b> Aqua-Protect®</td> </tr> <tr> <td>5</td> <td><b>Click system (glueless)</b> LocTec Pro</td> </tr> </table>	1	<b>Overlay</b> Especially resistant melamine resin overlay	2	<b>Decor paper</b> Decorative film	3	<b>Underlay</b> Additional strong film	4	<b>Core board</b> Aqua-Protect®	5	<b>Click system (glueless)</b> LocTec Pro
<b>Measure</b>	1845 x 188 mm																		
<b>Produkt thickness</b>	12 mm																		
<b>Packaging</b>	Box: 4 panels / 1.39 m <sup>2</sup> / 15,45 kg Pallet: 56 boxes / 77.84 m <sup>2</sup> / 880 kg																		
<b>Quality Guarantee*</b> Domestic area	15 years																		
1	<b>Overlay</b> Especially resistant melamine resin overlay																		
2	<b>Decor paper</b> Decorative film																		
3	<b>Underlay</b> Additional strong film																		
4	<b>Core board</b> Aqua-Protect®																		
5	<b>Click system (glueless)</b> LocTec Pro																		
     																			
Classification																			
	Test Method Standard	Marking acc. Standard																	
 <b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices																	
 <b>Utilization class 33</b> Heavy commercial use	EN ISO 10874	Large offices, public buildings, department stores																	
 <b>LocTec Pro</b>	-	Optimum fit, longer durability Easy installation due to Fold-Down-Technique																	
 <b>Aqua-Protect®</b> core board	-	Especially protected coreboard against moisture																	
 <b>Authentic</b> groove design 4-sides	-	-																	
 <b>AC5</b> Abrasion resistance	EN 13329, annex E	AC 5																	
 <b>Impact resistance</b>	EN 13329, annex F	IC 3																	
 <b>Reaction to fire</b>	EN 13501-1	C <sub>fl</sub> s1																	
 <b>Dynamic coefficient of friction</b>	EN 13893	μ ≥ 0.3 DS																	
 <b>Resistance to staining</b>	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4																	
 <b>Resistance to cigarette burns</b>	EN 438-2	Slight change of the surface ≥ grade 4																	
 <b>Effect of a furniture leg</b>	EN 424	No visible damage, when tested with foot type 0																	
 <b>Effect of a castor chair</b>	EN 425	Keine sichtbaren Veränderungen - Typ W																	
 <b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	DIN EN 12667	R = 0,0885 (m <sup>2</sup> K)/W - floating installation																	
 <b>E1</b> Formaldehyde emission	EN 717-1	E1																	
<b>Environment/Disposal</b>	<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201																	

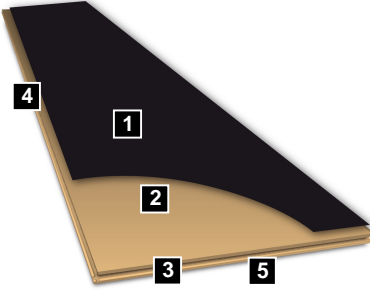

















\* acc. to Windmüller warranty conditions – www.wineo.de

**Relevant Information:**

- Cleaning and care: see separate cleaning & care instruction
- No release for glue-down
- Technical subjects can be changed by windmüller flooring products WFP GmbH.



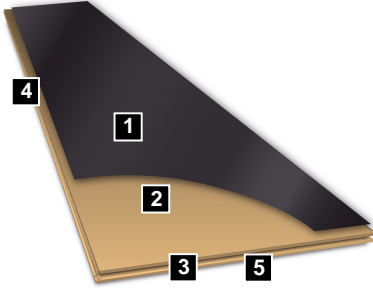
















## color matt | Technical characteristics

Description				
Multi-layer floors (Multi-Layer-Flooring) - Elements with acrylic based surface layer, electron beam cured according to EN 14978 for glueless installation				
Fields of use				
The Multi-layer floor <b>color matt</b> is suitable for heavy domestic and general commercial use (EN 13329 – 23/32). "Allgemeine bauaufsichtliche Zulassung" Nr. Z-156.606-708 / Declaration of Performance DOP 1601001				
Technical details		Design		
<b>Measure</b>	853 x 329 mm		<b>1</b>	<b>Overlay</b> Electron beam cured surface Decor paper impregnated with acrylic resin with Korund <b>Surface</b> - matt circumferential micro fibre
<b>Product thickness</b>	8 mm		<b>2</b>	<b>Core board</b> Aqua-Protect®
<b>Packaging</b>	Box: 8 panels / 2.25 m <sup>2</sup> / 17.21 kg Pallet: 45 boxes / 101.25 m <sup>2</sup> / 789.6 kg		<b>3</b>	<b>Barrier</b>
<b>Quality Guarantee*</b> Domestic area	20 years		<b>4</b>	<b>Waterproof edging</b> Water-repellent moisture protection
			<b>5</b>	<b>Click installation (glueless)</b> LocTec® technology
 				
Classification				
		Test Method Standard	Marking acc. Standard	
	<b>Utilization class 23</b> Heavy domestic use	EN ISO 10874	Corridors, living rooms, kitchens, home offices	
	<b>Utilization class 32</b> General commercial use	EN ISO 10874	Offices, boutiques, cafés	
	LocTec click system	-	Optimum fit with longer durability	
	Aqua-Protect® core board	-	Especially protected coreboard against moisture	
	Abrasion resistance	EN 13329, annex E	AC 4	
	Impact resistance	EN 13329, annex F	IC 2	
	Reaction to fire	EN 13501-1	C <sub>fl</sub> - s1	
	Dynamic coefficient of friction	EN 13893	μ ≥ 0.30 DS	
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4	
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6	
	Static indentation	EN ISO 24343-1	≤ 0,01 mm	
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0.	
	Effect of a castor chair	EN 425	No change in appearance - Type W	
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12664	0.07 (m <sup>2</sup> K)/W - floating installation	
	Formaldehyde emission	EN 717-1	E1	
	<b>Environmental/Disposal</b>	<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201	

\* acc. to Windmüller warranty conditions – [www.wineo.de](http://www.wineo.de)

**Relevant Information:**  
 - Cleaning and care: see separate cleaning & care instruction  
 - No release for glue-down  
 - Technical subjects can be changed by windmüller flooring products WFP GmbH

## color high gloss | Technical characteristics

Description				
Multi-layer floors (Multi-Layer-Flooring) - Elements with acrylic based surface layer, electron beam cured according to EN 14978 for glueless installation				
Fields of use				
The Multi-layer floor <b>color high gloss</b> is suitable for heavy domestic and moderate commercial use (EN 14978 – 23/31). "Allgemeine bauaufsichtliche Zulassung" Nr. Z-156.606-708 / Declaration of Performance DOP 1601001				
Technical details		Design		
Measure	853 x 329 mm		1	<b>Overlay</b> Electron beam cured surface decor paper impregnated with acrylic resin without Korund
Product thickness	8 mm		2	<b>Core board</b> Aqua-Protect®
Packaging	Box: 8 panels / 2.25 m <sup>2</sup> / 17.21 kg Pallet: 45 boxes / 101.25 m <sup>2</sup> / 789.6 kg		3	<b>Barrier</b>
Quality Guarantee* Domestic area	15 years		4	<b>Waterproof edging</b> Water-repellent moisture protection
			5	<b>Click installation (glueless)</b> LocTec® technology
 				
Classification				
		Test Method Standard	Marking acc. Standard	
	<b>Utilization class 23</b> Heavy domestic use	EN 14978	Corridors, living rooms, kitchens, home offices	
	<b>Utilization class 31</b> Moderate commercial use	EN 14978	Hotel rooms, small offices	
	LocTec® technology	-	Optimum fit with longer durability	
	Aqua-Protect® core board	-	Especially protected coreboard against moisture	
	Abrasion resistance	EN 14354, annex D	WR 3	
	Reaction to fire	EN 13501-1	C <sub>fl</sub> - s1	
	Dynamic coefficient of friction	EN 13893	μ ≥ 0.30 DS	
	Resistance to staining	EN 438-2	Materials of group 1 + 2: ≥ grade 5 Materials of group 3: ≥ grade 4	
	Light fastness	EN ISO 105 - B02	Blue wool scale: ≥ 6	
	Static indentation	EN ISO 24343-1	≤ 0,01 mm	
	Effect of a furniture leg	EN 424	No visible damage, when tested with foot type 0.	
	Effect of a castor chair	EN 425	No change in appearance - Type W	
	<b>Thermal resistance</b> Underfloor heating - suitable in connection with underlay material and Wineo-PE-foil as moisture barrier. Suitable for all standard warm-water underfloor heating and electrical systems regulated up to a surface temperature of 27 °C	EN 12667	0.07 (m <sup>2</sup> K)/W - floating installation	
	Formaldehyde emission	EN 717-1	E1	
	<b>Environmental/Disposal</b>	<u>Private disposal:</u> like laminated furniture; possible with normal domestic refuse <u>Commercial disposal:</u>	Refuse-key-no. AVV 170201	

\* acc. to Windmüller warranty conditions – www.wineo.de

#### Relevant Information:

- Cleaning and care: see separate cleaning & care instruction
- No release for glue-down
- Technical subjects can be changed by windmüller flooring products WFP GmbH.