

Values of standards and tests  
Flat sheets/panels for façades

**SWISSPEARL®**

CH-1530 Payerne  
CH-8867 Niederurnen

**SWISSPEARL® CARAT, REFLEX, XPRESSIV**

Coloured-through cement composite with either translucent or pigmented surface finish incl. R-colours

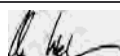
**SWISSPEARL® NOBILIS, PLANEA**

Grey cement composite with either translucent or pigmented surface finish

	Valid for Warranty	For information: Values obtained by independent testing institutes			
Product data	ETERNIT CH Standards	Test Values from Third party institute		Test Values from Test Report No: 01-42233.01 (ATI) ICC-ESR-1248	
		EN Test. Nr.	Performance	ASTM No.	Performance
Density	1.7 – 1.9 g/cm <sup>3</sup> at 20 °C	EN 12467 7.3.1	1.9 g/cm <sup>3</sup>		
Thickness	7.9 ± 0.5 mm	EN 12467 7.2.3	8.1 mm	C 120-90	0.310 inches
Weight	Approx. 16 kg/m <sup>2</sup>				
<b>Tolerances on Dimensions</b> Panel Thickness Panel Length and Width Straightness of edges Squareness of edges	± 0.5 mm ± 1.0 mm ± 1.0 mm/m ± 0.5 mm/m	EN 12467 7.2.3	± 0.1 mm ± 0.6 mm ≤ 2.0 mm/m ± 0.0 mm/m		
<b>Modulus of rupture</b> Crosswise dry Lengthwise dry Average value (Mean crosswise/lengthwise)	24 MPa <sup>1)</sup> 17 MPa <sup>1)</sup> 21 MPa <sup>1)</sup>	EN 12467 EN 12467 EN 12467	30 MPa 21 MPa 25 MPa	C 120-90 C 1185-95 C 120-90	28.6 MPa 18.2 MPa 23.7 MPa
<b>Modulus of Elasticity</b> dry (Mean crosswise/lengthwise)	Approx. 15'000 MPa	EN 12467	16'000 MPa	C 120-90	18'450 MPa
<b>Surface Burning Characteristics</b> (Flame spread/Smoke)	0 / 0	-	-	E 84-99	0/15 (0/< 5) Did not Ignite
<b>Fire Classification</b>	A2-s1, d0; Nonflammable/ Incombustible	EN 13501-1	A2-s1, d0 Nonflammable/ Incombustible	E 84-99	UBC Class I NFPA Class A
<b>Coefficient of Thermal Expansion</b> (Average) (-30 °C to +30 °C)	1.0 · 10 <sup>-5</sup> mm/mm °K	-	1.0 · 10 <sup>-5</sup> mm/mm °K	E 228-95	1.25 · 10 <sup>-5</sup> mm/mm °K
<b>Coefficient of Thermal Conductivity</b>	0.56 W/m °K	EMPA	0.56 W/m °K	C 518-98	7.5 Btu/h °F ft <sup>2</sup>
<b>Moisture Content</b>	< 6 M.-%	-	5 M.-%	C 1185-95	5.1 M.-%
<b>Water Absorption</b>	< 14 M.-%	-	12 M.-%	C 1185-95	9.2 M.-%
<b>Moisture Movement</b> (50 % to 90 % Rel. Humidity)	1 ‰	-	-	C 1185-95	0.8 ‰
<b>Water Tightness</b>	24 hours	EN 12467	24 hours	C 1185-95	No visible droplets or surface wetting
<b>Frost Resistance</b> (Flex. Strength/Swelling)	> 1000 cycles < 3 % after 200 cycles	EMPA	> 1000 cycles	C 1185-95	20.3 MPa
<b>Warm Water Resistance</b> (Average)	21 MPa	EN 12467	21 MPa	C 1185-95	19.7 MPa
<b>Heat/Rain Exposure</b>	50 cycles	EN 12467	50 cycles	C 1185-95	No damage or structural alterations visible
<b>Resistance to acid rain</b>	Resistant	-	-	D 1308-87	No visible change

<sup>1)</sup> Age of 7 days

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<b>Resistance to UV</b> (Xenon Arc Light acc. Weathering) <b>Exposure Duration:</b>	Resistant	-	-	G 155-05	
2000 hours					CARAT Sapphire 7060 $\Delta E = 1.1$ CARAT Black Opal 7020 $\Delta E = 1.3$ CARAT Coral 7040 $\Delta E = 0.6$ CARAT Amber 7080 $\Delta E = 1.9$ REFLEX Silver 9000 $\Delta E = 0.3$ REFLEX Blue Ice 9040 $\Delta E = 1.2$ REFLEX Sunset 9230 $\Delta E = 0.7$
2500 hours					CARAT Topaz 7070 $\Delta E = 0.5$ CARAT Topaz 7073 $\Delta E = 0.4$ CARAT Jade 7050 $\Delta E = 0.5$ REFLEX Autumn L. 9270 $\Delta E = 0.8$
3000 hours					CARAT Azurite 7040 $\Delta E = 1.4$ CARAT Amber 7083 $\Delta E = 0.5$
5000 hours					CARAT OYX 7099 $\Delta E = 0.3$ CARAT AZURITE 7040 $\Delta E = 1.7$ CARAT CORAL 7030 R $\Delta E = 0.3$ CARAT BLACK OPAL 7020 R $\Delta E = 2.1$ REFLEX CHAMPAGNE 9290 $\Delta E = 1.6$ REFLEX BLACK Velvet 9221 $\Delta E = 1.2$ XPRESSIV BROWN 8270 $\Delta E = 1.6$ XPRESSIV RED 8230 $\Delta E = 0.5$ XPRESSIV BLACK 8220 $\Delta E = 1.3$ XPRESSIV GREEN 8050 $\Delta E = 1.3$ XPRESSIV WHITE 8090 $\Delta E = 0.5$

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