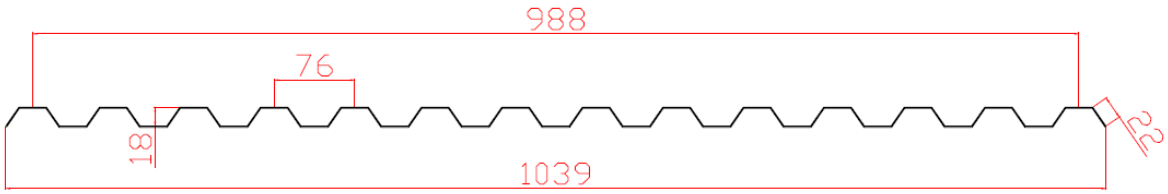
PALRUF® Data Sheet
Profile: Greca 76/18

09/2020

Profile drawing:



Profile Dimensions:

Profile (mm)	**Thickness** (mm)	**Length** (m)	**Overall width** (mm)	**Cover Width** (mm)	**Side-Lap** (%)
76 / 18	0.8-1.2	1.5 - 11.8	1040	988	5

Load / Span Data

Load (kg/m²)	**Maximum Roof Span (mm)**					
	0.8 mm		**1.0 mm**		**1.2 mm**	
	End Span	Mid Span	End Span	Mid Span	End Span	Mid Span
75	710	950	770	1025	800	1075
100	640	850	690	925	730	975
125	600	800	640	850	675	900
150	560	750	600	800	640	850
175	525	700	580	775	600	800
200	500	675	540	725	580	775
225	490	650	525	700	560	750
250	470	625	500	675	540	725
275	450	600	488	650	525	700
300	430	575	470	625	500	675

- The specified dimensions do not supersede the requirements of local construction codes.
- The given spans are according to deflections criterion of L/20, and minimum slope of 10%.
- The maximum roof spans are based on calculation model and practical testing.
- The mentioned load refers to wind and snow load only.
- For vertical application spans can be increased by 10%.

Curved roof

- Minimum curving radius – 4.0m

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Typical Properties:

Property	(Method)	Conditions	Unit	Value
				Clear
Specific gravity	(D-1505)		g/cm^3	1.38
Water absorption	(D-570)	24hr @ 23^{O}C	%	0.04
Light transmission	(D-1003)	Clear	%	85
		White Opal	%	35
		Bronze	%	55
Service temperature range			^{O}C	-10 to 50
Impact strength – room temp	(ISO 6603/1)	0.8mm sheet	J	12
Tensile strength at yield	(D-638)	10 mm/min	MPa	57
Tensile strength at break	(D-638)	10 mm/min	MPa	55
Elongation at yield	(D-638)	10 mm/min	%	2.4
Elongation at break	(D-638)	10 mm/min	%	92
Modulus of elasticity	(D-638)	1 mm/min	MPa	3000
Flexural strength	(D-790)	1 mm/min	MPa	100
Flexural modulus	(D-790)	1 mm/min	MPa	2050
Rockwell hardness	(D-785)		R scale	115
Heat deflection temperature	(D-648)	1.82 MPa	^{O}C	65
Vicat	(D-1525)	Load 1Kg	^{O}C	92
Coefficient of linear thermal expansion	(D-696)		10^{-5} cm/cm ^{O}C	6.3
Thermal conductivity	(D-177)		W/mk	0.16
Dielectric Constant	(D-150)	50 Hz		4
		1 Mhz		3
Dielectric strength	(D-149)	500 V/s	KV/mm	43