SUNTUF® Rooflights Data Sheet
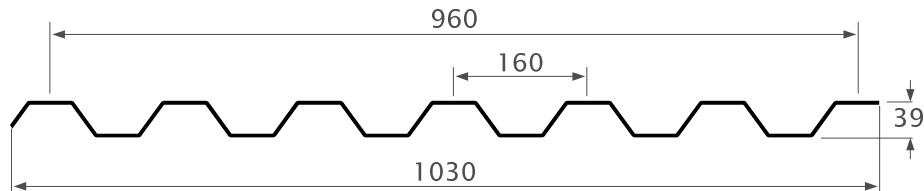## Profile: G160/40-02D

Product Description:

- SUNTUF — Co-extruded UV protection on one side.
- SUNTUF UV2 — Co-extruded UV protection on two sides.

Profile drawing:

General properties:

Dimension	Value
Thickness (Avg.)	0.9mm to 1.5mm
Length	1.5m to 11.9m
Cover Width	960mm
Profile height	39mm

Load / Span Data:

Load (kg/m²)	Maximum Roof Span (mm)				
	0.9 mm	1.0 mm	1.1 mm	1.2 mm	1.5 mm
75	1650	1700	1750	1800	1900
100	1550	1600	1650	1700	1800
125	1450	1500	1550	1600	1700
150	1350	1400	1450	1500	1600
200	1150	1200	1250	1300	1400
250	1050	1100	1150	1200	1300

- The specified dimensions do not supersede the requirements of local construction codes.
- The maximum purlin spans are based on continuous beam calculation model and practical testing.
- The criterion for allowed deflections is L/20.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 10%.
- For vertical application spans can be increased by 10%.
- For end field and single-span rooflights spans should be decreased by 25%.

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Typical Properties

Property	Standard	Conditions	Unit	Value
Density	ASTM D792	-	g/cm^3	1.2
Heat Deflection Temperature	ASTM D648	1.82 MPa	^{O}C	130
Service Temperature (Short term) Service Temperature (Long term)	-	-	^{O}C	-50 to 120 -50 to 100
Coefficient of Linear Thermal Expansion	ASTM D696	-	cm/cm ^{O}C	6.5 X 10^{-5}
Thermal Conductivity	ASTM C177	-	W/mK	0.21
Tensile Strength at Yield	ASTM D638	10 mm/min	MPa	62
Tensile Strength at Break	ASTM D638	10 mm/min	MPa	65
Elongation at Yield	ASTM D638	10 mm/min	%	7
Elongation at Break	ASTM D638	10 mm/min	%	>80
Tensile Modulus of Elasticity	ASTM D638	10 mm/min	MPa	2300
Flexural Strength	ASTM D790	1.3 mm/min	MPa	93
Flexural Modulus	ASTM D790	1.3 mm/min	MPa	1890
Impact Falling Weight (E-50)	ISO 6603/1		J	50
Rockwell Hardness	ASTM D785		R Scale	118R
Light Transmission	ASTM D1003		%	90
Haze	ASTM D1003		%	<0.5
Yellowness Index	ASTM D1925			<1

*Please refer to Technical guide for more details.