

## Technical Datas

### RÖBER PMMA Steg ACRYSMART® 16/32 and 16/64

**RÖBER PMMA Steg ACRYSMART®** are twinwall-sheets made from impact modified acrylic polymer. This material is UV-resistant by nature. Because of its high transparency **RÖBER PMMA Steg ACRYSMART®**-twinwall-sheets provides highest light transmission and brilliance. **RÖBER PMMA Steg ACRYSMART®** is the sheet for every weather condition. High hailstone-resistance is given as well as the good insulating effect.

**RÖBER PMMA Steg ACRYSMART®**-sheets „switch“ to shadowing at high temperatures. The clear transparent sheets change their inherent colour to opal white from 24°C on going. From „switch temperature“ of 27,5°C they are complete white and reached the shadowing effect, while the process does continue with higher temperatures.

General properties		
Material	Polymethylmethacrylate (PMMA)	
Lengths	mm	2000 - 7000
Sheet width	mm	980 / 1200
Light transmission grade clear / opal white	%	ca. 80 / 40
Switch temperature transparent > opal white	°C	21 - 31
Coefficient of thermal expansion	mm/m °C	0,09
Possible expansion due to heat and humidity	mm/m	ca. 6
Max. service temperature, no load	°C	70
evaluated sound insulation value (estimated)	dB	23
cold bending radius	mm/m	2400

Load bearing		
Wind-/Snow load	Support distance / max. installed length	
	Width 980 mm	Width 1200 mm
750 N/m <sup>2</sup>	7000 mm	6000 mm
1000 N/m <sup>2</sup>	6000 mm	4000 mm
1250 N/m <sup>2</sup>	4000 mm	3000 mm
1500 N/m <sup>2</sup>	3000 mm	2500 mm
2000 N/m <sup>2</sup>	2500 mm	2000 mm

**RÖBER PMMA Steg ACRYSMART® 16/32** twinwall, supported all around, min 25 mm.