


Technical data

R.CARBONAT Welle

 R.CARBONAT **Welle** corrugated sheets with the wave 76/18 Sinus and Trapez are produced in clear, different colors as well as with different surfaces and are always UV-protected top side.

General Properties		
Width/effective width*	mm	920/850
		1045/980
		1097/1053
		1265/1216
Sheet thickness*	mm	0,5 – 2,8
Elastic modulus	MPa	> 2300
Temperature resistance	°C	-40/+120
Max. service temperature permanent	°C	100
Max. service temperature no load short term	°C	130
Coefficient of thermal expansion	mm/m °C	0.07
Possible expansion by temperature and humidity	mm/m °C	7
Minimum roof pitch	grade/cm	5/9
Tolerance in length for sheets up to 2500 mm – acc. to DIN EN 1013	mm	-0/+20
Tolerance in length for sheets from 2500 mm – acc. to DIN EN 1013	%	-0/+0,8
Tolerance in width – according to DIN EN 1013	mm	-/+5
Max. purlin space at 750 N/m ² wind-/snowload Sinus/Trapez 76/18, thickness: 0,5 mm	mm	400
Max. purlin space at 750 N/m ² wind-/snowload Sinus/Trapez 76/18, thickness: 0,8 mm	mm	850
Max. purlin space at 1200 N/m ² wind-/snowload Sinus/Wabe 76/18, thickness: 2,8 mm	mm	850
Max. purlin space at 750 N/m ² wind-/snowload Sinus 177/51	mm	1000

Light-transmission-grades		
Thickness	Type	Transmission in %
2,8	Sinus 76/18 Wabe clear	71
2,8	Sinus 76/18 Wabe bronze	49
2,5	Sinus 76/18 smooth clear	86
2,5	Sinus 76/18 smooth bronze	60
2,5	Sinus 76/18 C-structure clear	75
2,5	Sinus 76/18 C-Sstructure bronze	55
1,3	Sinus + Trapez 76/18 smooth clear	89
1,3	Sinus + Trapez 76/18 smooth bronze	65
1,3	Sinus + Trapez 76/18 C-structure clear	80
1,3	Sinus + Trapez 76/18 C-structure bronze	60
0,8 - 1,0	Sinus + Trapez 76/18 smooth clear	90
0,8 - 1,0	Sinus + Trapez 76/18 smooth bronze	70
0,8 - 1,0	Sinus + Trapez 76/18 smooth opal white	40
0,8 - 1,0	Sinus + Trapez 76/18 smooth klima grey	25
0.5	Sinus + Trapez 76/18 smooth clear	90
1,5	Sinus 177/51 smooth clear	89

*tolerances according to DIN EN 1013