

# Product specification sheet

## SP12 | SP13 | SP14 | Warm edge spacers

**Material:** Polypropylene (0.22 W/mK), stainless steel (15 W/mK), steel wire in SP14

**Colors:** Black, Bronze, Dark gray, Light gray, White

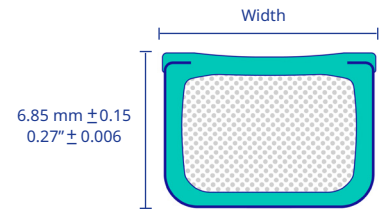
**Relevant information:** BF data sheet available, IGCC and IGMAC approved product, NFRC approved spacer component, certified Passive House Component Class pHB for Cold Climate

SP12 Size	Width [in] ± 0.006	Width [mm] ± 0.15
1/4"	0.2441	6.20
5/16"	0.3067	7.79
3/8"	0.3693	9.38

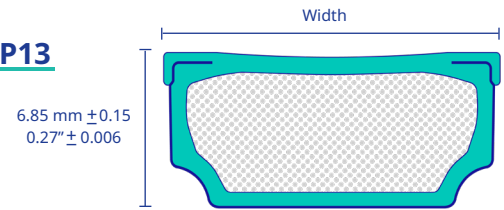
  

SP13/14 Size	Width [in] ± 0.006	Width [mm] ± 0.15
13/32"	0.4004	10.17
7/16"	0.4315	10.96
15/32"	0.4669	11.86
1/2"	0.4941	12.55
17/32"	0.5291	13.44
9/16"	0.5567	14.14
19/32"	0.5937	15.08
16mm	0.6083	15.45
5/8"	0.6228	15.82
21/32"	0.6543	16.62
17/25"	0.6740	17.12
23/32"	0.7169	18.21
3/4"	0.7441	18.90
24mm	0.9232	23.45
1"	1.0020	25.45

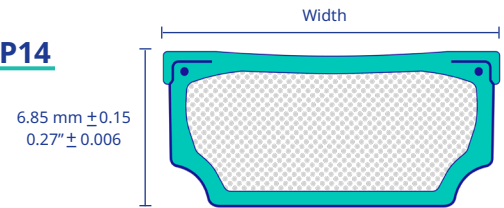
**SP12**



**SP13**



**SP14**



Characteristic	Standard	Specification/Value
<b>Performance</b>		
Thermal conductivity	ASTM E1461	Stainless steel: 15W/mK Polypropylene: 0.22 W/mK*
Rigidity	ASTM D 790	SP13: >25 N/mm <sup>2</sup> Rp02 SP14: >40 N/mm <sup>2</sup> Rp02
<b>Testing</b>		
Seal durability	ASTM E2190 tested according to ASTM E2188	Pass
	DIN EN 1279-2	
Fogging	ASTM E2190 tested according to ASTM E2189	Pass
	DIN EN 1279-6	
Argon gas retention	ASTM E2190 tested according to ASTM E2188	Pass
	DIN EN 1279-3	
UV resistance	ASTM G154 cycle 1, 3,000 hours of exposure	delta E (Lab) < 2 for black and white spacer colors
	EN ISO 4892-2, 3,000 hours of exposure	delta E (Lab) < 2 for black, white, and light grey spacer colors
Adhesion compatibility	ASTM C794 or similar	Pass results using PIB, silicone, polysulfide, polyurethane, hot-melt and reactive hot-melt (list of specific sealants available)

\*Contact your local Technoform representative for additional information