

Recommended specification language for Technoform plastic hybrid stainless steel spacers (SP09, SP12, SP13, SP14, SP17, SP25)

Formerly known as TGI®-Spacer M

2.6 Insulating glass

- A. Insulating glass units: factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190 and with IGCC®/IGMA® or IGMAC® certification for durability, volatile fog and argon retention performance.
1. Sealing system: dual seal, with polyisobutylene and silicone primary and secondary sealants.
 2. Insulating glass spacer: warm edge plastic hybrid stainless steel (PHSS) insulating glass spacer.
 - a. Basis-of-design product: subject to compliance with requirements, provide Technoform SP09, SP12, SP13, SP14, SP17, or SP25 plastic hybrid stainless steel spacer from Technoform Glass Insulation North America, Inc., 1755 Enterprise Pkwy. Suite 300; Twinsburg, OH 44087; Tel: 330-487-6600; Email: info.us@technoform.com; Web: www.technoform.com
 - b. Substitutions:
No substitutions allowed
or
Alternate products and substitutions: alternate products may be considered if they comply with all the performance requirements of this specification and evidence is submitted thereof. Samples and data sheets of alternate products must be submitted at least 14 days prior to bid date for review. By using products other than basis-of-design the contractor accepts responsibility for costs associated with any necessary modifications to related work, including any design and installation fees.
 - c. Material: co-extruded stainless steel and low conductivity polypropylene thermoplastic. Spacer shall have a solid stainless-steel back (to provide good adhesion to the secondary seal and minimum moisture vapor and gas permeation). Spacers backed with metalized multi-layer plastic films are not allowed. Living Building Challenge Red List Free. PVC containing products are not acceptable. Compressible spacer materials such as foam are not acceptable. Aluminum or stainless steel box spacer are not acceptable.
 - d. Size: specify size from manufacturer's standard sizes.
 - e. Color: **[White]** **[Light gray]** **[Black]** **[Bronze]** **[Dark gray]**.
 - f. UV stability: must show color change of less than a delta E (Lab) of 3 under UV exposure per ASTM G154 cycle 1 (QUV) after 3000 hours of exposure for black and white spacer colors.
 - g. Effective conductivity, K_{eff} : ≤ 2.08 btu-in/hr.ft².°F for spacer sizes from 11.5mm (7/16") to 16mm (5/8") as shown by a test report from an independent test laboratory.
 3. Desiccant: molecular sieve or a blend of molecular sieve and silica gel, as used in the insulating glass units qualified to ASTM E2190.