

Showcase

continued

Insulating glass Cyber-Spacer

Integral Seal Mfg. Inc. of Concord, Ontario, has made a name for itself in the market with its four-corner, bent thermal-edge spacer. The company manufactures insulating glass (IG) units using thermal edge spacers from BayForn, a warm-edge spacer with a "U" channel and an engineered polymer bridge. The units are double sealed with either polysulphide or silicone and can be complemented with low-E glass in hard or soft coatings.

The company's drive for developing the technology needed to devise a system for manufacturing the four-corner bent warm-edge spacer stemmed from the desire to avoid the use of four-corner mechanical fastening, often considered the "weakest link" of many IG units.



Company president Ben Nayot worked closely with an engineering firm to construct the bender necessary for the spacer's construction.

"The corner on the spacer bar is the weakest link and I need to control the width of the corner. By using four-corner bends, I can avoid mechanical fastening of the corner," said Nayot. The company also says that its new bent spacer gives the IG unit greater strength in areas where it is most vulnerable.

In addition to its spacer, Integral Seal's computer order-entry system has revolutionized the way window components are ordered. Customers send in orders electronically that are received automatically and invoiced by the computer system. Pertinent manufacturing information is then transmitted to the company's fully computerized glass cutting and metal forming machines, which the company says can eliminate human error in the inputting or data entry process.

"All of my customers' computers are on a network that is linked to a mainframe, eliminating any need to relay that information from the customer to the CNC cutting machine and the bending machine. Therefore, it is not necessary to train employees or hire qualified operators, since the machine operator is required only to feed in the right material and press a button," said Nayot.



For more info, visit www.integralseal.com



insulating glass

Cyber-Spacer

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