

Muntin bars work best with Nupro clips

A design feature, popular in today's window market, is the use of internal muntin bars, which, through relatively-easy insertion in the sealed air space, gives the appearance of Georgian or Victorian window-frames.

To date, fixing them firmly in position has not been a difficult task, because the hollow metal bars attach easily to conventional metal spacers. However, when it came to adhering them to Super Spacer™, somewhat of a tricky problem was created," says Gerhard Reichert, Edgetech's Director of Engineering.

The company examined various ways of anchoring the bars in position, and "We ended up settling on Nupro clips," says Reichert.

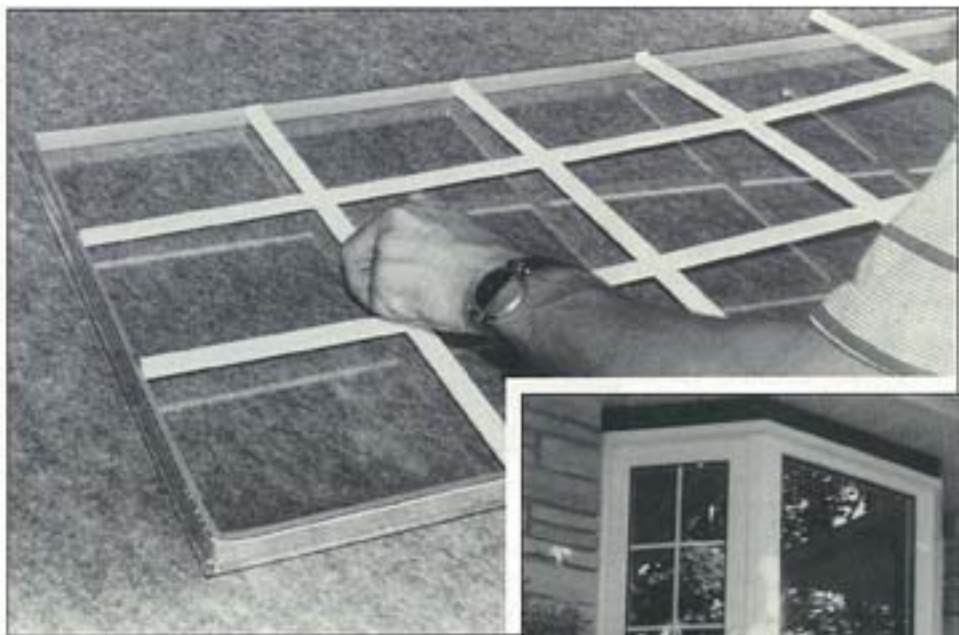
Super Spacer's attachment to the metal muntin bars needed to be rigid enough to prevent the latter from going askew or wandering out of position, he explains.

Nupro clips, designed for use with butyl-coated, spacer frames and manufactured by Nupro Products of Federal Way, Washington, "fit the bill perfectly."

The stepped-clip design of the Nupro clip allows the step-end to fit snugly between one side of the Super Spacer™ and the inner glass surface, while the other end, is snap-fitted into the hollow muntin bar, says Reichert.

In insulating glass assembly, the muntin grid is pre-assembled by center-notching the bars, and then, with clips attached, is lowered onto a light of glass that has already been edged with Super Spacer™.

The second sheet of glass is then lowered into place so that the flat edge of the Nupro clip is sandwiched between the spacer and glass. The side adhesive holds the clips firmly in place,

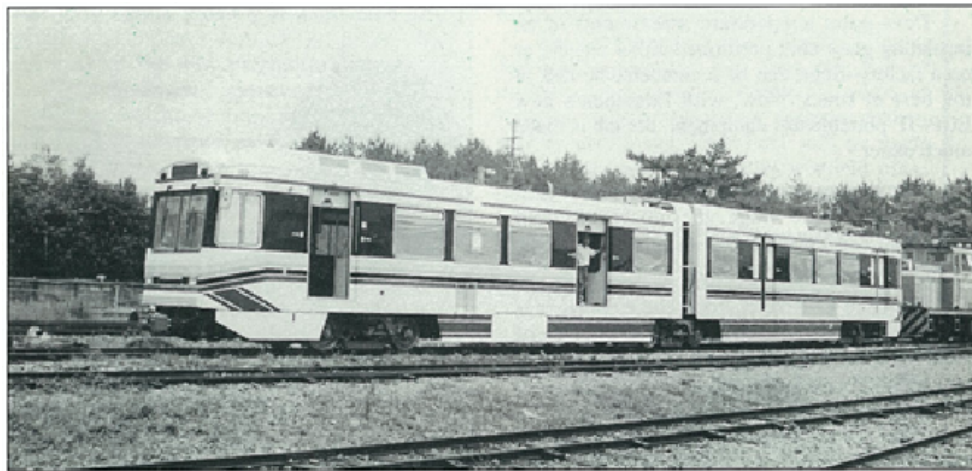


Muntin bar assembly (above) for use in Georgian bay-windows.

says Reichert, and, because Super Spacer™ is made of flexible foam, excessive point loads or stress can be avoided.

Muntin-bar compatibility is important to the future success of Super Spacer, says Reichert. Especially for the remodeling market, muntin bars are a very popular feature, he says.

"It was a market segment we couldn't ignore, so we're pleased the Nupro-clip solution came easily to hand."



Mass transit: A new market for Super Spacer™

Designed to provide edge-to-edge performance in today's super windows, Edgetech's Super Spacer™ is now being adopted by the mass transit industry for completely different reasons.

The silicone-foam edge seal and its hot-melt butyl sealant are the best approach to take when it comes to bonding and sealing polycarbonate windows in trains and subway cars, says Jeff Jones, general manager of J.T. Nelson Inc., a Louisville, Kentucky builder of windows, doors and seats for the mass transit industry.

Previous methods required heat and pressure "which meant we would have had to invest a great deal of capital in specialized equipment," he says, "whereas Super Spacer™ doesn't need anything except some nominal equipment to put the seal down."

J.T. Nelson's first use of Super Spacer™ is in subway cars ordered from Japan's Kawasaki Equipment Inc, but Jones says this contract is "Just the tip of the iceberg. It's a small percentage of what we're looking at in the next couple of years."

Johnson Controls

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perimeter heating by beaming an invisible source of infra-red radiation at the low-e glazing.

The Personal Environment Module team at Johnson Controls are very happy with the results, says Demeter, so much so that further PEMS installations are underway at the high-profile Lloyds building in London, England; Bell Northern Research Offices in Ottawa and the largest yet, an insurance office complex in Milwaukee.

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