

Technical Information

Construction: Defender frames are available in 12' lengths or may be custom-fit to your application. Corners can be mitered at a 45-degree angle or butted together.

When attached to a glazing panel of acrylic sheet or other material, they form a continuous seal of at least 1/2" around the window perimeter and allow for expansion on all sides. They hold the acrylic at least 3/4" away from the inside window, forming a dead air space.

Infiltration: Defender systems, when tested at U.S. Testing Laboratories, admitted only 0.013CFM/ft. at 0.57 PSF (Performance Class 10) and just 0.016 CFM/ft. of air at 1.57 PSF (Performance Class 20 and over).

Heat Conductivity: Defender reduces a window's U-value from approximately 1.13 for single-pane glass to 0.52. When applied over double-glazed windows, the U-value comes down to 0.30. This means saving to you of 90,000 to 120,000 BTU per square foot of glass per year.

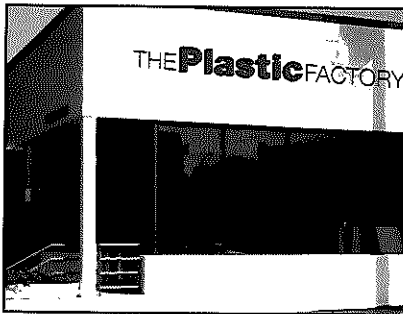
Noise Reduction: Over 25 dB (A) reduction (flat audio spectrum), up to 38 dB (A) includes glass and air space, when installed as second glazing, depending on the glass and acrylic thickness and the integrity of the seal).

Flammability: Defender frames have been proven to be non-flammable and self-extinguishing by ASTM D-635 for rigid plastics over 0.05" in thickness. Framing flame spread is within the range of 15-25 according to ASTM E-84.

Patents: Defender-1 U.S. Patent No. D258-766, Canadian Patent No. 49516. Defender Rigidframe Magnetic and Defender-L, U.S. Patent 4,461,223.

Proven in all kinds of buildings Defender Interior Insulating Windows are now in use in thousands of buildings around the country-office buildings, factories, schools, retail stores, churches, hotels, hospitals and government buildings-wherever energy efficiency and occupant comfort is important. Installations include building owned or leased:

- IBM
- Xerox
- Panasonic
- The Bank of New York
- New Haven Savings Bank
- The U.S. Postal Service
- Cook County School Board
- Town of Fairfield, CT
- Columbia County, NY
- Ridgewood High School,
- Norridge, IL
- Howard Johnson Motor Lodges
- Ramada Inns



The Plastic Factory Corporate Headquarters

Your Window of Opportunity

DEFENDER®

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THE Plastic FACTORY

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Bridgeport, CT 06605

Distributed by:

Limited Warranty

The Plastic Factory warrants its frames to be free of defects for a period of five years from the date of purchase, on the condition that all the products and merchandise are used in accordance with manufacturer's instructions and specifications, and provided that written notice of the nature of the defect is received by The Plastic Factory within thirty days of its discovery. This warranty is specifically limited to the replacement of defective material with the same, equal or better material, at the option of manufacturer. It does not cover glass breakage or any damage or loss due to the intentional misuse or negligence. The warranty on Magnetic Systems will be in effect only when the prime window is weather-stripped to relieve air infiltration in compliance with ASHRAE standards.

Contact your Defender Distributor

Defender products are stocked by distributors nationwide. On large or complex installations, we offer a complete range of technical services to our users. The systems are so simple, however, that this rarely necessary. Technical specifications are available on request.

For a location of your nearest distributor, call or write The Plastic Factory today.

The Plastic Factory, 678 Howard Avenue, Bridgeport, CT 06605.
(203) 908-3468

Defender, Defender-1, Defender-2, Defender Rigidframe Magnetic, Defender-L and Defender Sill are registered trademarks of The Plastic Factory in the U.S. and Canada

*Based on degree day averages for New England