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Providing Quality Control, Testing, Inspection and Certification Services to the Building Industry

PFS TEST REPORT #93-65
R & D SPLITTING TESTS

FOR

THE MILLENNIUM GROUP
WATERLOO, WISCONSIN

GENERAL

R & D splitting test of the Nailer was conducted on April 4, 1994, at PFS Corporation, Madison, Wisconsin. Testing was conducted to determine the Nailer characteristics through practical application at extreme temperatures.

DESCRIPTION

The Nailers were manufactured by Zeier Plastic and Manufacturing, Inc. of Madison, Wisconsin. The Nailer is designed to be a construction materials fastening component and can be used as a drywall support clip for ceiling and corner fastening of drywall and drywall-to-wood construction. The Nailer's dimensions consist of an approximate 2.125 in.-by-1.5 in.-by-0.10 in.-thick rectangle with a projecting tab. On the backside of the main rectangle is a centrally-located approximate 0.28 in.-wide-by-2.125 in.-long-by-0.10-0.60 in.-thick rib. The projecting tab is approximately 1.5 in.-wide-by-0.94 in.-high-by-0.78-0.58 in.-thick. The projecting tab is located approximately 0.56 in. from the main rectangle end. Each Nailer was molded by the injection molding method using a plastic material of high density polyethylene.

TEST PROCEDURES

Ten Nailer specimens were exposed to extreme temperatures. Five Nailer specimens were exposed to -20°F, and five Nailer specimens were exposed to 110°F. Two pieces of nominal 2-in. SPF lumber were also exposed to the extreme temperatures. After ten days of exposure, the Nailers were fastened through the beveled face to the nominal 2-in. SPF lumber with three 1/2-in. staples using a Duo-Fast hand stapler, Model CT-859A. A 1-5/8-in. drywall screw was also screwed through each Nailer where the gypsum would be fastened.

TEST RESULTS

After a thorough visual examination, there is no visible adverse change in structure to the Nailer at either high or low temperature exposures. See photos.

Tests Conducted and
Report Prepared By:

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Laboratory Technician

Tests Witnessed and
Report Reviewed By:

James Van Schoyck
Laboratory Manager

Report Reviewed By:

Richard M. Reinhard, P.E.
Technical Director

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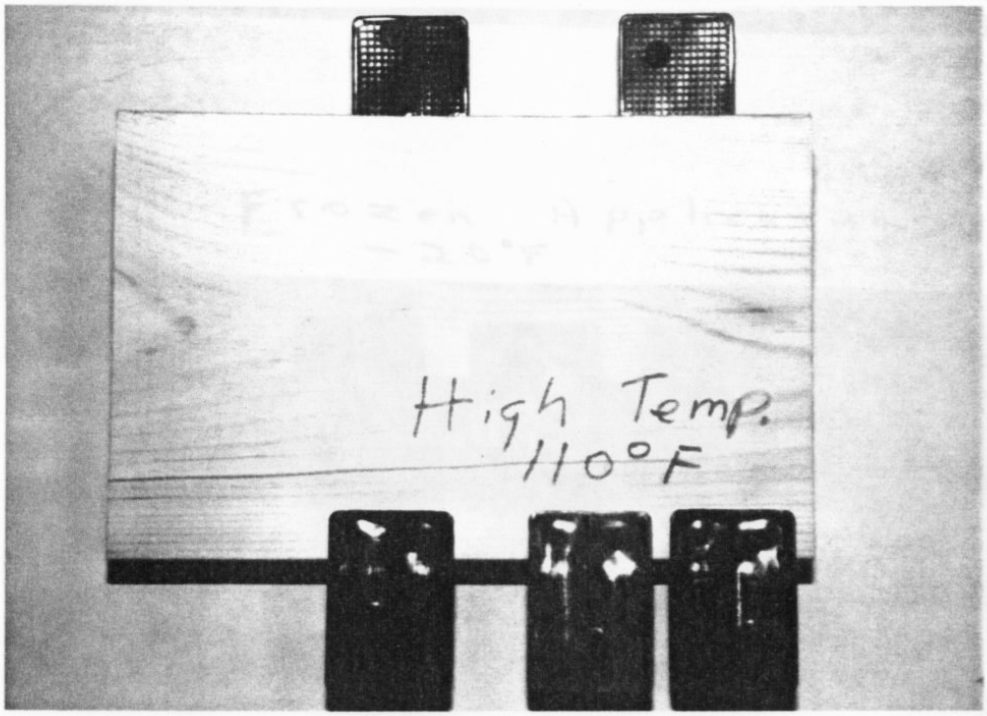
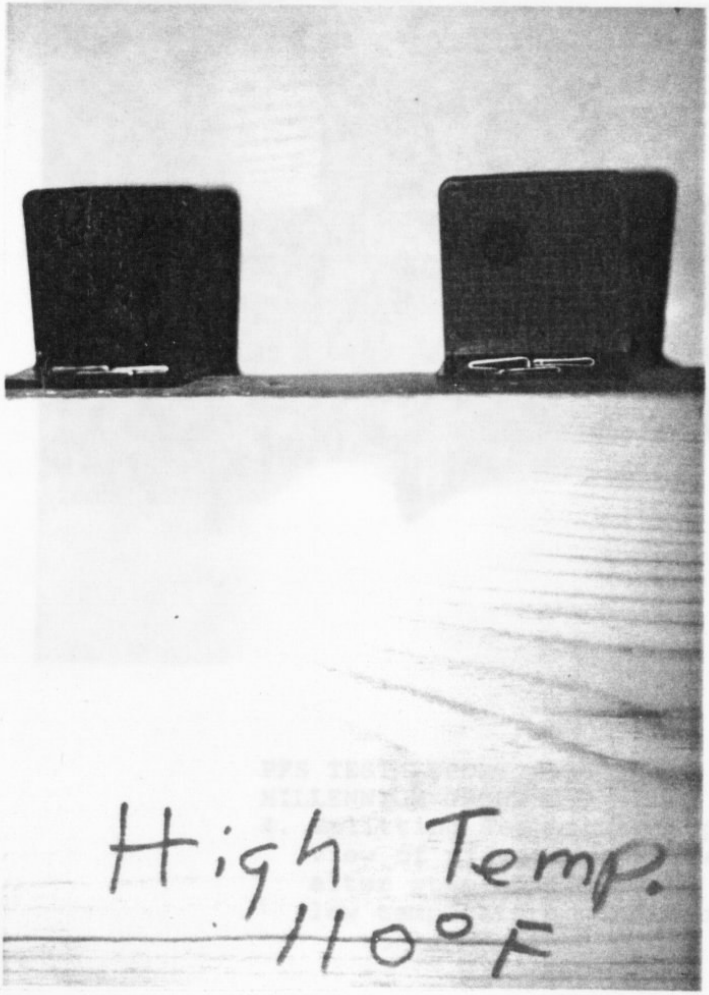
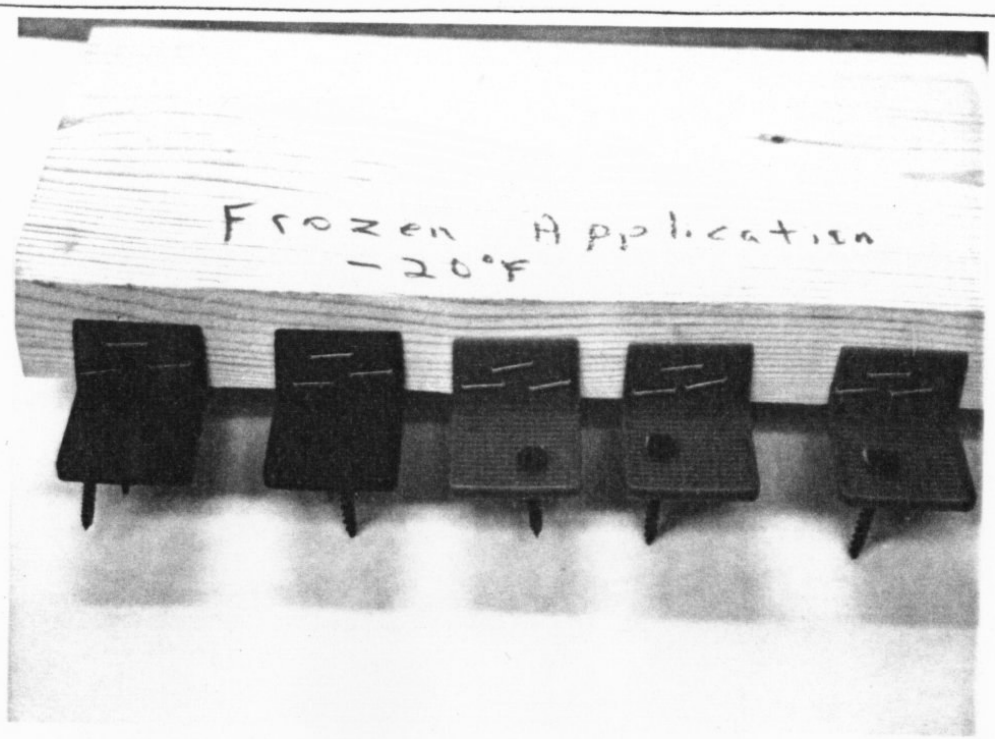


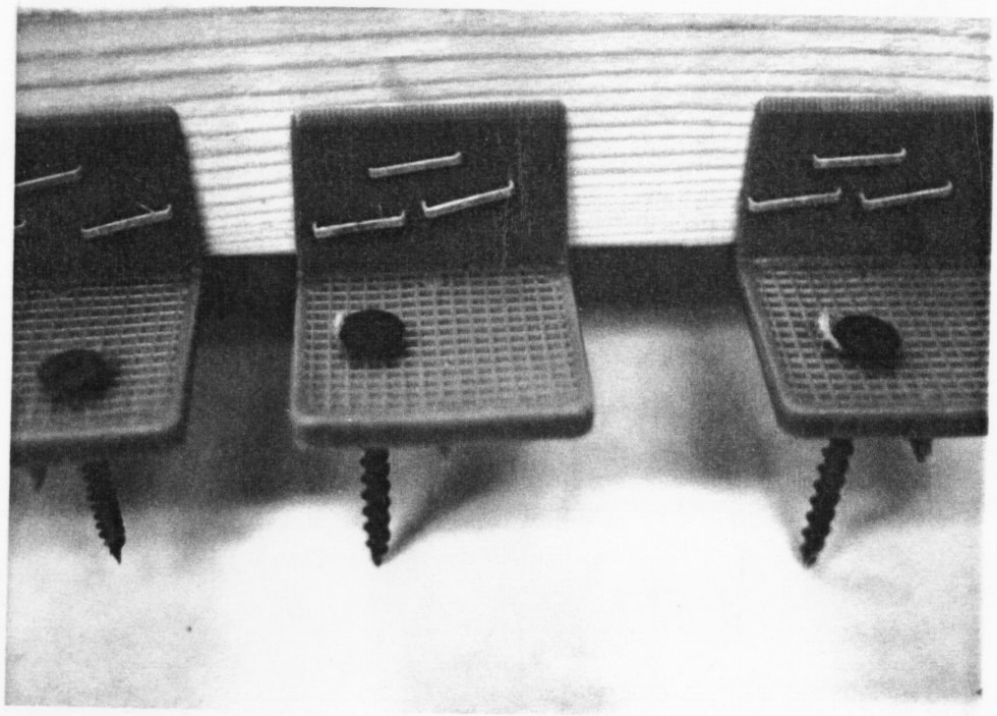
PFS TEST REPORT #93-65
MILLENNIUM GROUP
1. Splitting Test - view of Nailers stapled & screwed after high temperature condition.



PFS TEST REPORT #93-65
MILLENNIUM GROUP
2. Splitting Test - close-up view of top two Nailers in Photo #1.



PFS TEST REPORT #93-65
MILLENNIUM GROUP
3. Splitting Test - view of Nailers stapled and screwed in low temperature condition.



PFS TEST REPORT #93-65
MILLENNIUM GROUP
4. Splitting Test--close-up view of effects to Nailer after stapled & screwed in low temperature condition.