



DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

SPECIAL PROJECTS DIVISION

PRODUCT ACCEPTANCE NUMBER: PA-019

PRODUCT TYPE: Non-Asbestos Discrete Fiber-Cement Building Products

ACCEPTANCE DATE: December 15, 1997

COMPANY NAME: James Hardie Building Products, Inc.
10901 Elm Avenue
Fontana, CA 92337

PRODUCT NAME:

Siding and Soffit Boards: Hardiplank®, Hardiflex®, Hardipanel®, Harditex®, Hardisoffit®

Lining Boards: Hardiboard® (tapered edge), Hardibacker® (square edge)
Hardibacker® (multilay)

CODE REFERENCES: 1995 Title 24, Part 2, Sections 104.2.8

DISCUSSION:

The James Hardie Building Products, Inc. siding, soffit and lining boards and panels are non-asbestos, discrete cellulose fiber-reinforced cement building products. All products are made with the same material components and differ in surface treatments, configuration and board thickness. The siding and soffit boards are acceptable for exterior or interior use, and the lining boards are acceptable for interior use only. The boards are manufactured by the Hatschek process and cured under pressure in a steam autoclave. All products can be cut to shape with either the score-and-snap method or a handsaw, an electric or pneumatic shear, or power saws equipped with carbide blades. The products can be installed over wood or metal stud framing. The boards have been listed in the National Evaluation Service, National Evaluation Report, NER-405, and have been approved for use on public school, state-owned and state-leased essential services building and California Community College projects.

The Hardiplank, Hardiflex, Hardipanel, Harditex and Hardisoffit siding and soffit boards meet the requirements of the International Conference of Building Officials Evaluation Services (ICBO ES), Acceptance Criteria 090, "*Fiber Cement Panels for Use as Exterior Wall Siding*", the ASTM C 1185-96, "*Standard Test Method for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards*" and the above referenced building code. The boards are classified as Grade II, Type A, per ASTM C 1186, "*Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets*".

The Hardiboard and Hardibacker lining panels meet the requirements of the ASTM C1288, "Standard Specification for Discrete Non-Asbestos Fiber-Cement Interior Substrate Sheets".

Approval of all boards has been based on a review of the project manual and on independent inspection services being provided by ETL Laboratories, Inc. as required by the ASTM standards and the ICBO ES evaluation criteria.

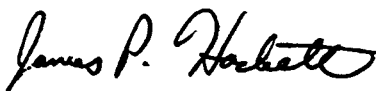
All boards are classified as non-combustible in accordance with ASTM E136, and have a flame-spread rating of 0 and a smoke density rating of 5 in accordance with ASTM E84.

The siding, soffit and lining boards shall be used and installed per the provisions of the NER-405 report subject to the following limitations:

1. The Hardiflex, Hardipanel and Harditex products are acceptable as weather-resistive barriers, as defined in Section 1402A.1, Title 24, Part 2, CCR provided the joints are properly covered with battens, Hardijoint PVC Joint Treatment or sealed with a caulking material approved by the caulking manufacturer.
2. The siding and soffit boards shall not be acceptable for the resistance of lateral forces as shear walls or diaphragms pending further testing. The allowable shear values in Table 3 of the NER-405 shall not be considered as part of this product approval.
3. Fasteners shall be corrosion-resistant (galvanized or stainless steel) nails or corrosion-resistant screws as specified in the NER-405 report for the designated usage.
4. For Hardiplank lap siding, plank splices shall be centered over studs.
5. Fire-resistive assemblies, 1 through 4, have been accepted in the NER-405 report with testing and reporting provided by Omega Point Laboratories for "One-Hour Fire-resistant Assemblies". Projects utilizing these assemblies shall be reviewed by the DSA Fire and Life Safety Officer during the plan review.

Changes to the product and manufacturing procedures without DSA concurrence will void this acceptance. The acceptance of this product is contingent on continued acceptable performance and is subject to re-examination in two years.

If you have any questions regarding this product, please contact me at (916) 327-9699.



James P. Hackett, S.E.
District Structural Engineer

cc: John Mulder, James Hardie Building Products, Inc.
ORS Area Offices
Alan Williams, Principal, Structural Safety Policy
Terrence Fong, Office of Statewide Health Planning & Development