

SUBJECT: EXTERIOR CLADDING TO EXTREME SIP WALLS

Extreme SIPs are used in both commercial and residential applications. Over the years, Extreme has seen nearly every type of exterior cladding applied to the face of its SIPs. This bulletin reviews common claddings that are available and their attachment to Extreme SIPs. Extreme SIPs do not incorporate framing members and, therefore, require cladding materials that are approved for installation over 7/16" Structural OSB Sheathing.

A review of the requirements for attachment of the siding material typically calls for the cladding to be attached with 8d nails 16" or 24" on center, depending on the framing spacing. Using these values, one can compare the pullout values for 8d nails into standard framing with the fastener pullout values listed in Extreme's Technical Bulletins D-16 and D-17 regarding Screw & Nail Withdrawal Capabilities of OSB. This comparison shows that all claddings with the requirements of fastening to framing members can be matched by applying 8d ring shank nails 12" o.c. into Extreme SIPs. This includes the attachment of standard sidings such as vinyl, Hardie® Board, cedar, redwood board, metal, composites, and fiber cement sidings.

This comparison is also valid for the application of lath for stucco as well as brick tie placement. Typically, these products are attached to SIPs by simply increasing the number of fasteners by 25%. When a manufacturer calls for fasteners 16" o.c., the fasteners would be placed in a SIP at a spacing of 12" o.c. This adjustment allows the application to meet or exceed the pull-out values required by the siding manufacturer. It should be noted that the fastener placement can be maintained at the siding manufacturer's recommendations if a nail/staple is replaced with a screw. In all cases, the fastener should be corrosion-resistant.

FIBER CEMENT BOARD SIDING MANUFACTURERS & SIPs

James Hardie, Allura, and Nichiha are the leading manufacturers of fiber cement board siding supplied throughout the US and Canada. Each of these companies has examined the use of their products when applied over Extreme SIPs. All three companies have provided notice that their products, when applied directly over the 7/16" OSB facing of SIPs, are acceptable by following their recommended attachment patterns and approved fasteners.

James Hardie, Allura, and Nichiha Siding are recommended as premium fiber cement board siding products compatible with Extreme SIPs. Information on the attachment requirements for each of these companies can be found at:

James Hardie

www.jameshardie.com

ICC-ES Evaluation Reports: ESR-2290 and ESR-1844

Allura

www.allurausa.com

ICC-ES Evaluation Report: ESR-1668

Nichiha

www.nichiha.com

Intertek CCRR-0258

SIPS & Engineered Wood Lap Siding from Louisiana-Pacific

Louisiana-Pacific, a leader in the manufacture of Engineered Wood lap siding, has examined the use of their SmartSide Precision Treated Engineered Wood lap siding with SIPs. Louisiana-Pacific worked with APA, which authored the APA Product Report (PR-N124). Louisiana-Pacific has confirmed that their products, when applied directly over Extreme SIPs, are acceptable when following their recommended fastening patterns. Louisiana-Pacific siding is recommended as a premium Engineered-Wood lap siding product compatible with Extreme SIPs.

Information regarding the attachment requirements for Louisiana-Pacific's Engineered Wood lap siding can be found in the PR-N124 APA Product Report. Tables 4a and 4b list specific SIP attachment recommendations, and these tables are attached to this bulletin.

For further information on Louisiana-Pacific siding products, please visit www.lpsmartside.com, Engineered Wood Lap Siding from Louisiana-Pacific.