

NANAWALL® NATIONAL GREEN BUILDING STANDARD (ANSI ICC-700-2008) HOW NANAWALL® PRODUCTS MAY CONTRIBUTE

Overview: The National Green Building Standard™ (ANSI ICC-700-2008) is verified by Accredited Verifiers via the NAHB Research Center. It is the industry standard for residential, multi-family / mixed use and renovation projects. Performance Levels for Points are : Bronze (222), Silver (406), Gold (558) and Emerald (697). Projects must meet a minimum threshold in each of Lot Design, Resource Efficiency, Energy Efficiency, Indoor Environmental Quality & Operation/Maintenance/Education of Building Owner. The Green Remodel Path awards performance levels for reduction of energy and water by 20%, 34%, 43% and 50% for each of the color designations. Builders/developers seeking certification via the NGBS may apply via www.NAHBGreen.org website and use the “Green Scoring Tool” to see if the home qualifies/ apply for verification.

606 RENEWABLE MATERIALS

Intent: Building materials derived from renewable resources
606.2 Wood purchased for NanaWall products available that are certified by ATFS, CSA, FSC, PEFC, SFI.

606.2(2) Major Elements (4 points)

NANAWALL® Solutions: NanaWall® woods from sustainable forestry practices include Red Meranti, European Pine, Douglas Fir. Wood makes up approximately 20-30% of the weight of the product (depending on size) and up to 20% of the cost. Forestry source is available for verification process.

610.1 INNOVATIVE PRACTICES

(Manufacturer’s environmental management systems)

Intent: Production facility is ISO 14001 certified or equivalent. Product (s) is 1 percent or more of total building cost. (1 point per %).

NANAWALL® Solutions: NanaWall® / Solarlux® both use waterbased (wood), powdercoat (aluminum) paints, completely recycled during the manufacturing process. We have purchased from sustainable forest for over 15 years. Our innovative packaging is completely recyclable. ISO practices are a way of life for NanaWall® See Section 606 for estimating percent of building cost.

701.4.4.1 FENESTRATION:

Intent: Meets Energy Star for U-Factor and SHGC (Mandatory)

Table 701.4.4.1

MAXIMUM FENESTRATION SPECIFICATIONS Windows & Exterior Doors

Climate Zone	U-Factor	SHGC
Northern	<.30	Any
Northern	=.31	>.35
Northern	=.32	>.40
North-Central	<.32	< .40
South-Central	<.35	<.30
Southern	<.60	<.27

NANAWALL® Solutions:

NanaWall® Operable Glass Walls qualify for Enhanced windows (10-12 credits). WD 66, WD67 are available in Heat Mirror TC88 glass with Krypton fill, which has a U-Factor of .25 and SHGC of .30. SL70 with Heat Mirror TC88 glass with Krypton fill has a U-Factor of .26 and SHGC of .21 or with triple insulated Low E glass with argon fill, which has a U-Factor of .29 and SHGC of .24.

Please refer to specific product Performance and Thermal Testing on the website for latest information.

Nanawall® Operable Glass Walls allow natural sunlight to illuminate interiors, saving energy with passive solar, building orientation and reduced demand on artificial lighting. High performance windows are able to significantly reduce the energy loss through the building envelope. Not only does a high thermal resistance reduce heating loss, but a low shading coefficient reduces solar gain, thereby cooling loads. A high visible transmittance can help reduce lighting loads by contributing more useful daylight

NanaWall® products meet Energy Star performance requirements, depending on product selected. By using performance simulation modeling it is possible to demonstrate that NanaWall® Operable Glass Walls with Heat Mirror TC88 Krypton fill are able to alter the simulation model by 8-10%, depending on size and solar orientation

For coastal areas and weather resistance, choose SL73 with insulated Impact Low E Glass with argon fill, which has a U-Factor of .39 and SHGC of .20, but has the additional protection of Impact Resistance for hurricanes. Testing per Florida Building Code and Dade County for Impact for Missile D.