

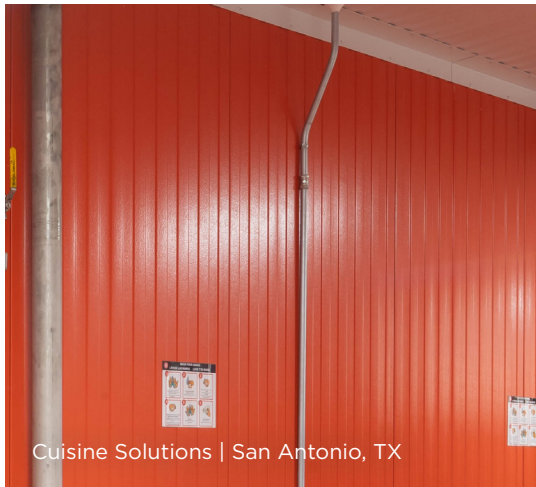
LEED SUPPORT GUIDE (v4 & v4.1)

High performance insulated metal panels



All Weather
Insulated Panels

Your vision. Our purpose.



Cuisine Solutions | San Antonio, TX



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Roof & Roof Deck Panels



INTEGRATED PROCESS (1 POINT)

Preliminary “simple box” energy modeling can be positively impacted by the thermal performance of an insulated metal panel (IMP) roof system used on the building envelope.



HEAT ISLAND REDUCTION (2 POINTS)

AWIP SR2, HR3, and HR5 IMP roof systems can qualify for this credit for steep or low-slope applications by selecting finishes on our finish chart that provide appropriate SRI values, see performance chart on page 5 for more information. OneDek® roof systems utilizing white TPO or PVC SRI value can qualify for low-slope roof applications.

RAINWATER MANAGEMENT (3 POINTS)

AWIP IMP roof systems, when integrated into a rainwater capture strategy, can support landscape irrigation and reducing outdoor water consumption.



OUTDOOR WATER USE REDUCTION (2 POINTS)

AWIP IMP roof systems, when integrated into a rainwater capture strategy, can support landscape irrigation and reducing outdoor water consumption.

INDOOR WATER USE REDUCTION (6 POINTS)

AWIP IMP roof systems, when integrated into a rainwater capture strategy, can be used to support internal greywater systems, reducing potable water consumption for uses other than drinking and washing.



PREREQUISITE - MINIMUM ENERGY PERFORMANCE (REQUIRED)

AWIP IMP roof systems contribute to the higher required energy efficiency of a building that must comply with a 5% improvement in the performance compared to a benchmark rating based on ASHRAE 90.1 2010, Appendix G for LEED v4 and meeting ASHRAE 90.1-2016 for LEED v4.1.

OPTIMIZE ENERGY PERFORMANCE (18 POINTS)

AWIP IMP roof systems can improve energy efficiency of the building. Selecting appropriate finishes can also reduce the cooling and heating loads of the building.

RENEWABLE ENERGY PRODUCTION (3 POINTS)

Photovoltaic systems can be integrated onto an AWIP IMP roof system within the footprint of the structure without the need for envelope penetrations.



PREREQUISITE CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLANNING (REQUIRED)

The steel skins of AWIP IMPs are recyclable and plans can be made for the construction waste to be diverted from landfill.

Roof & Roof Deck Panels



BUILDING LIFE-CYCLE IMPACT REDUCTION (4 POINTS)

AWIP has conducted product specific LCAs and has published Type III EPDs for their IMP roof and roof deck systems which can be used in a whole building LCA.

ENVIRONMENTAL PRODUCT DECLARATIONS (2 POINTS)

AWIP has product specific, Type III, EPDs for our IMP roof and roof deck systems. They can be one of the 20 permanently installed products analyzed for this credit. Location of the project site will determine the number of applicable points. Roof and roof deck IMPs are manufactured in: Vacaville, CA; Little Rock, AR; East Stroudsburg, PA.

CONSTRUCTION & DEMOLITION WASTE MANAGEMENT (2 POINTS)

The steel skins of AWIP IMPs are recyclable and plans can be made for the construction and demolition waste to be diverted from landfill.

SOURCING OF RAW MATERIALS (2 POINTS)

The pre-and post-consumer recycled content of AWIP IMPs can support qualifying for this credit. Roof and roof deck IMPs systems are manufactured in: Vacaville, CA; Little Rock, AR; East Stroudsburg, PA.



THERMAL COMFORT (1 POINT)

AWIP roof and roof deck IMPs provide thermal, water, vapor, and air performance; this all-in-one barrier supports the optimal design of a building envelope to provide thermal comfort.



INNOVATION (5 POINTS)

Buildings designed with AWIP roof and roof deck IMPs have the potential to help the building to provide exemplary performance and exceed the requirements set forth by the LEED v4 and v4.1 and can qualify for this credit.

Continuing Education

All Weather Insulated Panels is a registered provider with The American Institute of Architects (AIA) Continuing Education System and Green Building Certification Institute (GBCI) Education Provider. Depending on the continuing education (CE) course, you can receive one AIA and/or one GBCI CE credit and potentially qualify for several other certifications through the AEC Daily continuing education website.

To take the available course on sustainability, click or scan the QR code.



Wall Panels



INTEGRATED PROCESS (1 POINT)

Preliminary “simple box” energy modeling can be positively impacted by the thermal performance of an insulated metal panel (IMP) wall system used on the building envelope.



PREREQUISITE - MINIMUM ENERGY PERFORMANCE (REQUIRED)

AWIP IMP wall systems contribute to the higher required energy efficiency of a building that must comply with a 5% improvement in the performance compared to a benchmark rating based on ASHRAE 90.1 2010, Appendix G and meeting ASHRAE 90.1-2016 for LEED v4.1.

OPTIMIZE ENERGY PERFORMANCE (18 POINTS)

AWIP IMP wall systems can improve energy efficiency of the building. Selecting appropriate finishes can also reduce the cooling and heating loads of the building.



PREREQUISITE CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLANNING (REQUIRED)

The steel skins of AWIP IMPs are recyclable and plans can be made for the construction and demolition waste to be diverted from landfill.

BUILDING LIFE-CYCLE IMPACT REDUCTION (3 POINTS)

AWIP has conducted product specific LCAs and has published Type III EPDs for their IMP wall systems which can be used in a whole building LCA.



ENVIRONMENTAL PRODUCT DECLARATIONS (2 POINTS)

AWIP has product specific, Type III, EPDs for our IMP wall systems. They can be one of the 20 permanently installed products analyzed for this credit. Wall IMPs are manufactured in: Vacaville, CA; Little Rock, AR; East Stroudsburg, PA.

SOURCING OF RAW MATERIALS (2 POINTS)

The pre-and post-consumer recycled content of AWIP wall IMPs can support qualifying for this credit. Location of the project site will determine the number of applicable points. Wall IMPs are manufactured in: Vacaville, CA; Little Rock, AR; East Stroudsburg, PA.



THERMAL COMFORT (1 POINT)

AWIP roof and roof deck IMPs provide thermal, water, vapor, and air performance; this all-in-one barrier supports the optimal design of a building envelope to provide thermal comfort.



INNOVATION (5 POINTS)

Buildings designed with AWIP roof and roof deck IMPs have the potential to help the building to provide exemplary performance and exceed the requirements set forth by the LEED v4 and can qualify for this credit.

Exterior Color Reflectivity and Emissivity Values

STANDARD EXTERIOR SMP COLORS AW500			
	Solar Reflectance	Emissivity	Solar Reflectance Index
Imperial White	0.70	0.86	85
Polar White	0.60	0.87	71
Light Stone	0.56	0.87	66
Sandstone	0.60	0.86	71
Burnished Slate	0.32	0.87	33
Surrey Beige	0.53	0.86	61
PREMIUM EXTERIOR SMP COLORS AW500			
Ash Gray	0.46	0.87	52
Grizzle Gray	0.33	0.87	35
Almond	0.63	0.86	75
Tundra	0.44	0.87	49
STANDARD EXTERIOR PVDF COLORS AW1000			
Regal White	0.72	0.87	88
Light French Gray	0.60	0.87	71
Pearl Gray	0.49	0.86	56
Tundra	0.45	0.87	51
Almond	0.63	0.87	75
Surrey Beige	0.48	0.85	54
Medium Bronze	0.33	0.86	34
Reddened Earth	0.44	0.86	49
Slate Gray	0.40	0.87	44
Sandstone	0.61	0.85	72
Warm White	0.64	0.87	77
Royal Blue	0.29	0.86	29

PREMIUM EXTERIOR PVDF COLORS AW1000			
	Solar Reflectance	Emissivity	Solar Reflectance Index
Snow White	0.67	0.87	81
Peppercorn	0.33	0.87	35
Virtual Taupe	0.40	0.87	44
Weathered Copper	0.28	0.87	28
Colonial Red*	0.33	0.87	35
Evergreen	0.28	0.86	27
Slate Blue	0.30	0.87	31
Naval	0.29	0.87	29
PREMIUM MICA EXTERIOR PVDF COLORS AW3000			
Pewter	0.44	0.84	48
Champagne Metallic Bronze	0.34	0.84	35
Corten Steel	0.35	0.88	38
Textured Bronze	0.34	0.88	48
STANDARD ADOBETEXTURE* EXTERIOR COLORS AW250			
Regal White	0.68	0.87	82
Pearl Gray	0.45	0.88	51
Sandstone	0.58	0.87	68
Surrey Beige	0.48	0.87	51

* FEVE Performance Data for AWIP1250 finish



Scan for the most current product information



All Weather
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