

# INSULATED WALL PANEL

## DOUBLE MESA PROFILE - DM40

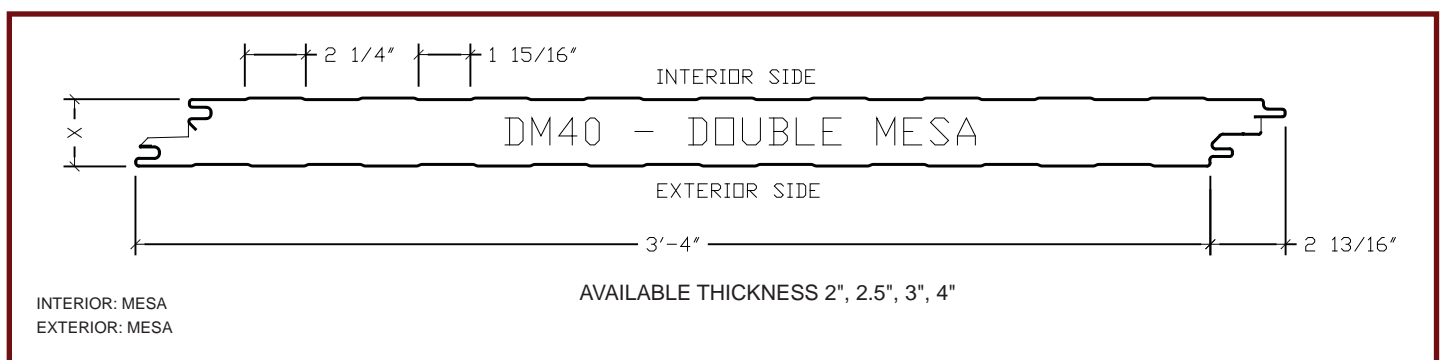
### DOUBLE MESA PROFILE

Double Mesa profile wall panels are ideal for commercial and industrial applications. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint and the attractive profile breaks up the flat expanse of metal on large projects such as manufacturing plants or warehouses.



### FEATURES AND BENEFITS

- The double tongue and groove is self aligning, weather tight and allows for sealant application at either the interior or exterior side of the panel joinery depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- This panel arrives on site in one piece and requires one simple step installation reducing construction time and costs.
- Standard exterior and interior steel surface is 26 gauge.



# INSULATED WALL PANEL

## DOUBLE MESA PROFILE - DM40

### Tests/Approvals

<b>Thermal Resistance</b>	<b>ASTM C518</b>
<i>Determines panel insulating properties</i>	
<b>Air Leakage</b>	<b>ASTM E283</b>
<i>Measures air leakage through panel joints</i>	
<b>Water Penetration</b>	<b>ASTM E331</b>
<i>Measures water penetration through panel joints</i>	
<b>Fire Rating</b>	<b>FM 4880</b>
<i>Class 1 Fire Rating approval for wall and ceiling</i>	
<b>Structural</b>	<b>ASTM E72</b>
<i>Panels withstand positive &amp; negative wind loads</i>	



### PRODUCT INFORMATION

<b>Panel Thickness:</b>	2"    2.5"    3"    4"
<b>Insulating R-Values:</b>	16    20    24    32
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Application:</b>	Vertical
<b>Insulation Material:</b>	Polyisocyanurate
<b>Joint Configuration:</b>	Off-set tongue and groove with concealed fastener
<b>Standard Gauge:</b>	Exterior 26 ga. (22 & 24 ga. Optional) Interior 26 ga.
<b>Exterior Coating:</b>	PVDF is standard
<b>Exterior Colors:</b>	Regal White, Surrey Beige, Pearl Gray, Warm White, Cypress Green, Royal Blue
<b>Interior Color:</b>	Imperial White (Polyester)
<b>Exterior Finish:</b>	Smooth – No Emboss
<b>Interior Finish:</b>	Light Emboss
<b>Accessories:</b>	Fasteners, concealed fastener clip, sealants, trims and flashing
<b>Trim Finish:</b>	Smooth

### INSULATED WALL PANELS

#### STRUCTURAL - LOAD TABLE

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED PRESSURE (psf)												
	THICKNESS	Span (ft)										
		5	6	7	8	9	10	11	12	13	14	15
GAUGE 26/26	2"	56	50	42	35	30	25	22	19	17	14	12
	2.5"	70	57	48	41	35	31	28	24	21	18	16
	3"	75	62	54	46	40	35	33	31	28	25	22
	4"	89	73	62	53	47	41	39	37	33	30	28

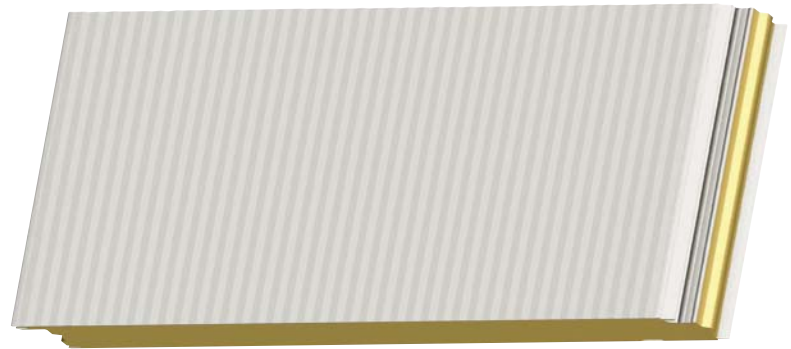
- Notes:
1. Interior and exterior steel sheets are fabricated from Grade 33 steel with a minimum nominal core thickness of 0.018".
  2. Table based on maximum deflection of L/180.
  3. Connections have not been considered in the load table.
  4. Thermal load has not been considered.
  5. Table is based on multi-span condition of equal span lengths.

# INSULATED WALL PANEL

## STRIATED PROFILE - ST40

### STRIATED PROFILE

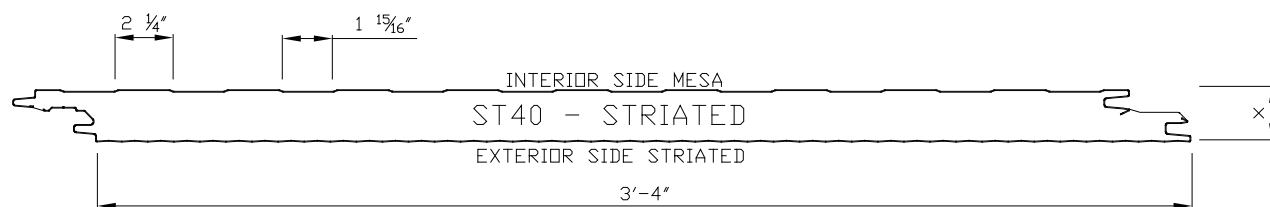
Striated profile wall panels are ideal for commercial and industrial applications. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint and the attractive profile breaks up the flat expanse of metal on large projects such as manufacturing plants or warehouses.



### FEATURES AND BENEFITS

- The double tongue and groove is self aligning, weather tight and allows for sealant application at either the interior or exterior side of the panel joinery depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- This panel arrives on site in one piece and requires one simple step installation reducing construction time and costs.
- Standard exterior and interior steel surface is 26 gauge.

### STRIATED PROFILE



INTERIOR: MESA  
EXTERIOR: STRIATED

AVAILABLE THICKNESS 2", 2.5", 3", 4"

**NBS - Indiana**  
260.837.7891

**NBS - NE Sales Office**  
717.735.7766

**NBS - South Carolina**  
803.568.2100

**NBS - Texas**  
972.524.5407

**NBS - Utah**  
435.919.3100

# INSULATED WALL PANEL

## STRIATED PROFILE- ST40

### Tests/Approvals

<b>Thermal Resistance</b>	<b>ASTM C518</b>
<i>Determines panel insulating properties</i>	
<b>Air Leakage</b>	<b>ASTM E283</b>
<i>Measures air leakage through panel joints</i>	
<b>Water Penetration</b>	<b>ASTM E331</b>
<i>Measures water penetration through panel joints</i>	
<b>Fire Rating</b>	<b>FM 4880</b>
<i>Class1 Fire Rating approval for wall and ceiling</i>	
<b>Structural</b>	<b>ASTM E72</b>
<i>Panels withstand positive &amp; negative wind loads</i>	



### PRODUCT INFORMATION

<b>Panel Thickness:</b>	2"    2.5"    3"    4"
<b>Insulating R-Values:</b>	16    20    24    32
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Application:</b>	Vertical
<b>Insulation Material:</b>	Polyisocyanurate
<b>Joint Configuration:</b>	Off-set tongue and groove with concealed fastener
<b>Standard Gauge:</b>	Exterior 26 ga. (22 & 24 ga. Optional) Interior 26 ga.
<b>Exterior Coating:</b>	PVDF is standard
<b>Exterior Colors:</b>	Regal White, Surrey Beige, Pearl Gray, Warm White, Cypress Green, Royal Blue
<b>Interior Color:</b>	Imperial White (Polyester)
<b>Exterior Finish:</b>	Smooth – No Emboss
<b>Interior Finish:</b>	Light Emboss
<b>Accessories:</b>	Fasteners, concealed fastener clip, sealants, trims and flashing
<b>Trim Finish:</b>	Smooth

### INSULATED WALL PANELS

#### STRUCTURAL - LOAD TABLE

		MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED PRESSURE (psf)										
	THICKNESS	Span (ft)										
		5	6	7	8	9	10	11	12	13	14	15
GAUGE 26/26	2"	56	50	42	35	30	25	22	19	17	14	12
	2.5"	70	57	48	41	35	31	28	24	21	18	16
	3"	75	62	54	46	40	35	33	31	28	25	22
	4"	89	73	62	53	47	41	39	37	33	30	28

- Notes:
1. Interior and exterior steel sheets are fabricated from Grade 33 steel with a minimum nominal core thickness of 0.018".
  2. Table based on maximum deflection of L/180.
  3. Connections have not been considered in the load table.
  4. Thermal load has not been considered.
  5. Table is based on multi-span condition of equal span lengths.

# INSULATED WALL PANEL

## HEAVY EMBOSSED PROFILE - HE40

### HEAVY EMBOSSED PROFILE

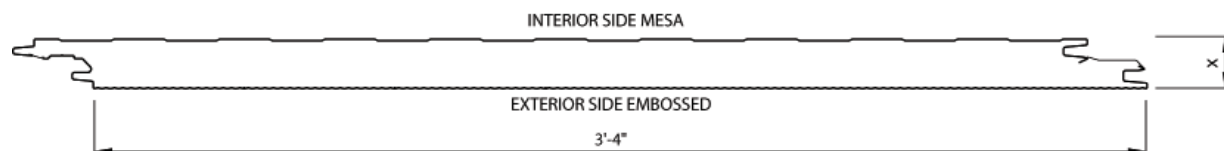
Heavy Embossed profile wall panels are ideal for commercial and industrial applications. The heavy emboss creates a subtle and pleasing effect. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint and the attractive profile breaks up the flat expanse of metal on large projects such as manufacturing plants or warehouses.



### FEATURES AND BENEFITS

- The double tongue and groove is self aligning, weather tight and allows for sealant application at either the interior or exterior side of the panel joinery depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- This panel arrives on site in one piece and requires one simple step installation reducing construction time and costs.
- Standard exterior and interior steel surface is 26 gauge.

### HEAVY EMBOSSED - HE40



INTERIOR: MESA  
EXTERIOR: EMBOSSED

AVAILABLE THICKNESS 2", 2.5", 3", 4"

**NBS - Indiana**  
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**NBS - NE Sales Office**  
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**NBS - South Carolina**  
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**NBS - Utah**  
435.919.3100

# INSULATED WALL PANEL

## HEAVY EMBOSSED PROFILE - HE40

### Tests/Approvals

<b>Thermal Resistance</b>	<b>ASTM C518</b>
<i>Determines panel insulating properties</i>	
<b>Air Leakage</b>	<b>ASTM E283</b>
<i>Measures air leakage through panel joints</i>	
<b>Water Penetration</b>	<b>ASTM E331</b>
<i>Measures water penetration through panel joints</i>	
<b>Fire Rating</b>	<b>FM 4880</b>
<i>Class 1 Fire Rating approval for wall and ceiling</i>	
<b>Structural</b>	<b>ASTM E72</b>
<i>Panels withstand positive &amp; negative wind loads</i>	

### PRODUCT INFORMATION

<b>Panel Thickness:</b>	2"    2.5"    3"    4"
<b>Insulating R-Values:</b>	16    20    24    32
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Application:</b>	Vertical
<b>Insulation Material:</b>	Polyisocyanurate
<b>Joint Configuration:</b>	Off-set tongue and groove with concealed fastener
<b>Standard Gauge:</b>	Exterior 26 ga. (22 & 24 ga. Optional) Interior 26 ga.
<b>Exterior Coating:</b>	PVDF is standard
<b>Exterior Colors:</b>	Regal White, Surrey Beige, Pearl Gray, Warm White, Cypress Green, Royal Blue
<b>Interior Color:</b>	Imperial White (Polyester)
<b>Exterior Finish:</b>	Heavy Emboss
<b>Interior Finish:</b>	Light Emboss
<b>Accessories:</b>	Fasteners, concealed fastener clip, sealants, trims and flashing
<b>Trim Finish:</b>	Smooth

## INSULATED WALL PANELS

### STRUCTURAL - LOAD TABLE

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED PRESSURE (psf)												
	THICKNESS	Span (ft)										
		5	6	7	8	9	10	11	12	13	14	15
GAUGE 26/26	2"	56	50	42	35	30	25	22	19	17	14	12
	2.5"	70	57	48	41	35	31	28	24	21	18	16
	3"	75	62	54	46	40	35	33	31	28	25	22
	4"	89	73	62	53	47	41	39	37	33	30	28

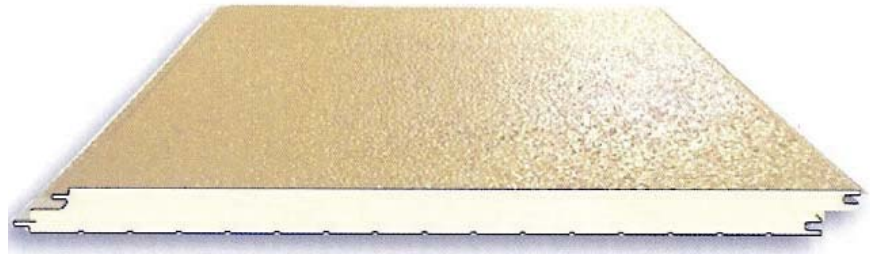
- Notes: 1. Interior and exterior steel sheets are fabricated from Grade 33 steel with a minimum nominal core thickness of 0.018".  
 2. Table based on maximum deflection of L/180.  
 3. Connections have not been considered in the load table.  
 4. Thermal load has not been considered.  
 5. Table is based on multi-span condition of equal span lengths.

# INSULATED WALL PANEL

## ADOBETEXTURE™ PROFILE - HE40-A

### ADOBETEXTURE™ PROFILE- HE40-A

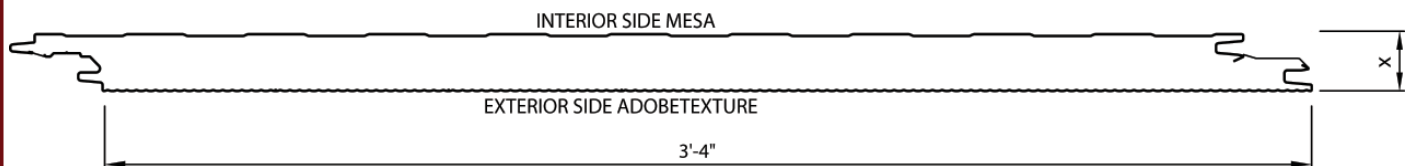
AdobeTexture profile wall panels are ideal for commercial and industrial applications. AdobeTexture creates a subtle and pleasing effect. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint and the attractive profile breaks up the flat expanse of metal on large projects such as manufacturing plants or warehouses.



### FEATURES AND BENEFITS

- The double tongue and groove is self aligning, weather tight and allows for sealant application at either the interior or exterior side of the panel joinery depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- This panel arrives on site in one piece and requires one simple step installation reducing construction time and costs.
- Standard exterior and interior steel surface is 26 gauge.

### ADOBETEXTURE™ HE40-A



INTERIOR: MESA  
EXTERIOR: ADOBETEXTURE

AVAILABLE THICKNESS 2", 2.5", 3", 4"

**NBS - Indiana**  
260.837.7891

**NBS - NE Sales Office**  
717.735.7766

**NBS - South Carolina**  
803.568.2100

**NBS - Texas**  
972.524.5407

**NBS - Utah**  
435.919.3100

# INSULATED WALL PANEL

## ADOBETEXTURE™ PROFILE - HE40-A

### Tests/Approvals

<b>Thermal Resistance</b>	<b>ASTM C518</b>
<i>Determines panel insulating properties</i>	
<b>Air Leakage</b>	<b>ASTM E283</b>
<i>Measures air leakage through panel joints</i>	
<b>Water Penetration</b>	<b>ASTM E331</b>
<i>Measures water penetration through panel joints</i>	
<b>Fire Rating</b>	<b>FM 4880</b>
<i>Class 1 Fire Rating approval for wall and ceiling</i>	
<b>Structural</b>	<b>ASTM E72</b>
<i>Panels withstand positive &amp; negative wind loads</i>	



### PRODUCT INFORMATION

<b>Panel Thickness:</b>	2"    2.5"    3"    4"
<b>Insulating R-Values:</b>	16    20    24    32
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Application:</b>	Vertical
<b>Insulation Material:</b>	Polyisocyanurate
<b>Joint Configuration:</b>	Off-set tongue and groove with concealed fastener
<b>Standard Gauge:</b>	Exterior 26 ga. (22 & 24 ga. Optional) Interior 26 ga.
<b>Exterior Coating:</b>	Ceramic is standard
<b>Exterior Colors:</b>	Regal White, Sandstone, Surrey Beige, Pearl Gray
<b>Interior Color:</b>	Imperial White (Polyester)
<b>Exterior Finish:</b>	AdobeTexture
<b>Interior Finish:</b>	Light Emboss
<b>Accessories:</b>	Fasteners, concealed fastener clip, sealants, trims and flashing
<b>Trim Finish:</b>	Adobe Texture

### INSULATED WALL PANELS

#### STRUCTURAL - LOAD TABLE

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED PRESSURE (psf)												
	THICKNESS	Span (ft)										
		5	6	7	8	9	10	11	12	13	14	15
GAUGE 26/26	2"	56	50	42	35	30	25	22	19	17	14	12
	2.5"	70	57	48	41	35	31	28	24	21	18	16
	3"	75	62	54	46	40	35	33	31	28	25	22
	4"	89	73	62	53	47	41	39	37	33	30	28

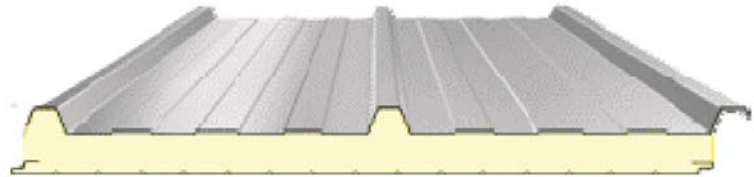
- Notes: 1. Interior and exterior steel sheets are fabricated from Grade 33 steel with a minimum nominal core thickness of 0.018".  
 2. Table based on maximum deflection of L/180.  
 3. Connections have not been considered in the load table.  
 4. Thermal load has not been considered.  
 5. Table is based on multi-span condition of equal span lengths.

# INSULATED ROOF PANEL

## HIGH RIB PROFILE - HR3

### HIGH RIB PROFILE

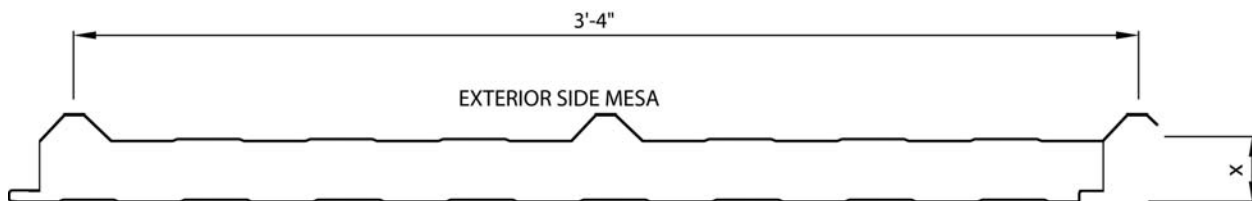
High Rib roof panels are ideal for field assembled applications. Energy efficient, high rib panels can also provide cost savings. Since the insulated metal panels are easy to install, labor costs can be reduced.



### FEATURES AND BENEFITS

- The panel's overlapping joint is self-aligning and allows for easy sealant application at the panel joinery.
- This panel arrives on site in one piece and requires one simple step installation reducing construction time and costs.
- Standard metal surface is 26 gauge G-90 galvanized steel.

### HIGH RIB PROFILE - HR3



INTERIOR: SMOOTH  
EXTERIOR: LIGHT EMBOSS

AVAILABLE THICKNESS 2.5", 4", 5", 6"

**NBS - Indiana**  
260.837.7891

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717.735.7766

**NBS - South Carolina**  
803.568.2100

**NBS - Texas**  
972.524.5407

**NBS - Utah**  
435.919.3100

# INSULATED ROOF PANEL

## HIGH RIB PROFILE - HR3

### PRODUCT INFORMATION

<b>Panel Thickness:</b>	2.5"    4"    5"    6"
<b>Insulating R-Values:</b>	21    33    42    50
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Insulation Material:</b>	CFC-free foamed-in-place polyisocyanurate foam 2.2 to 2.5 pcf density
<b>Joint Configuration:</b>	Overlapping with exposed fasteners and saddle clips
<b>Metal Facings:</b>	26 ga. galvanized steel (22 ga., 24 ga. available)
<b>Coatings:</b>	PVDF is standard
<b>Color:</b>	Regal White, Surrey Beige, Pearl Gray, Warm White, Cypress Green, Royal Blue
<b>Accessories:</b>	Fasteners, Saddle Fastener Clips, Sealants, Brake Formed Flashings

### Test and Approvals

<u>Thermal Resistance</u> <i>Determines panel insulating properties</i>	ASTM C518
<u>Structural</u> <i>Panels withstand positive &amp; negative wind loads</i>	ASTM E72
<u>Fire Rating</u> <i>Class 1 Fire Rating approval for wall and ceiling</i>	FM4880
<u>Fire, Wind, Foot Traffic, and Hail Rating</u> <i>Class 1 Rating for panel roofs</i>	FM4471

# INSULATED ROOF PANEL

## STANDING SEAM ROOF PROFILE - SR2

### STANDING SEAM PROFILE

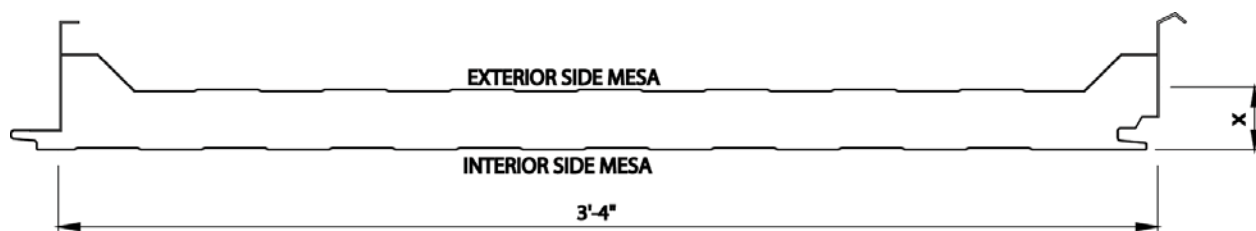
Standing seam SR2 profile roof panels are ideal for field assembled standing seam roof applications. The panels install quickly and efficiently. Standing seam SR2 offers a high level of thermal (R value) for your facility resulting in energy cost savings.



### FEATURES AND BENEFITS

- The panel's overlapping joint is self-aligning and allows for easy sealant application at the panel joinery.
- This panel arrives on site in one piece and requires one step installation reducing construction time and costs.
- Standard metal surface is 26 gauge G-90 galvanized steel with Kynar coating.

### STANDING SEAM PROFILE - SR2



INTERIOR: SMOOTH  
EXTERIOR: LIGHT EMBOSS

AVAILABLE THICKNESS 3.25", 4", 5", 6"

**NBS - Indiana**  
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**NBS - Utah**  
435.919.3100

# INSULATED ROOF PANEL

## STANDING SEAM ROOF PROFILE - SR2

### PRODUCT INFORMATION

<b>Panel Thickness:</b>	3.25"    4"    5"    6"
<b>Insulating R-Values:</b>	26    33    42    50
<b>Panel Width:</b>	40"
<b>Panel Length:</b>	8'0" minimum to 56'0" maximum
<b>Insulation Material:</b>	CFC-free foamed-in-place polyisocyanurate foam 2.2 to 2.5 pcf density
<b>Joint Configuration:</b>	90° Field Seamed--Must be seamed during installation
<b>Metal Facings:</b>	26 ga. galvanized steel (22 ga., 24 ga. available)
<b>Coatings:</b>	PVDF is standard
<b>Color:</b>	Regal White, Surrey Beige, Pearl Gray, Warm White, Cypress Green, Royal Blue
<b>Accessories:</b>	Fasteners, Standing Seam Clip Assemblies, Sealants, Brake Formed Flashings

### Test and Approvals

<u>Thermal Resistance</u> <i>Determines panel insulating properties</i>	ASTM C518
<u>Structural</u> <i>Panels withstand positive &amp; negative wind loads</i>	ASTM E72
<u>Surface Burning</u> <i>Compares surface flame spread &amp; smoke density</i>	ASTM E84
<u>Fire Rating</u> <i>Class 1 Fire Rating approval for wall and ceiling</i>	FM4880
<u>Fire, Wind, Foot Traffic, and Hail Rating</u> <i>Class 1 Rating for panel roofs</i>	FM4471

# Nucor Building Systems Insulated Panels Cool Coatings



These “cool” exterior coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for stealth aircraft in the U.S. military. This is by far the best paint system available on the market for commercial buildings.

## Exterior Colors - PVDF These colors utilize Cool Coating Technology



Regal White IR .72 SRI 87



Warm White IR .59 SRI 70



Surrey Beige IR .51 SRI 58



Pearl Gray IR .50 SRI 57



Royal Blue IR .29 SRI 29



Cypress Green IR .30 SRI 31

IR = Initial Reflectance • SRI = Solar Reflectance Index

## AdobeTexture™ Wall Panels



Regal White



Sandstone



Surrey Beige



Pearl Gray

## Interior Color - Polyester



Imperial White

Note: When using field applied coatings always order Imperial White Polyester for the exterior coating.

Colors shown closely approximate actual coating colors.

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[www.nucorbuildingsystems.com](http://www.nucorbuildingsystems.com)

# Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

## Solar Reflectance

To be considered “cool,” products must have a Solar Reflectance of at least .25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

## Thermal Emittance

Thermal Emittance is the measure of a panel’s ability to release heat that it has absorbed.

## Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflectance Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and its heat gain into the building. Cool metal roofs coated with the COOL-pigmented PVDF resin achieve an SRI of 29-87, depending on the color.

Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically over .85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30-50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing energy demand.

Color	Initial Solar Reflectance (IR)	Thermal Emittance (IE)	Solar Reflectance Index (SRI)
Regal White	.72	0.86	87
Warm White	.59	0.88	70
Surrey Beige	.51	0.86	58
Pearl Gray	.50	0.87	57
Cypress Green	.30	0.87	31
Royal Blue	.29	0.85	29

Cool science isn’t just a meaningless marketing term. It’s a technology that is literally revolutionizing the building industry. Combating urban heat islands and high-energy consumption will require innovative products that meet or exceed even the most stringent industry requirements. Our insulated panel is that type of product.

Just think, the more energy costs rise, the more money you save with Nucor Building Systems.



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