

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Axcent

Wall Mount Luminaire

Product Features



Product Certifications



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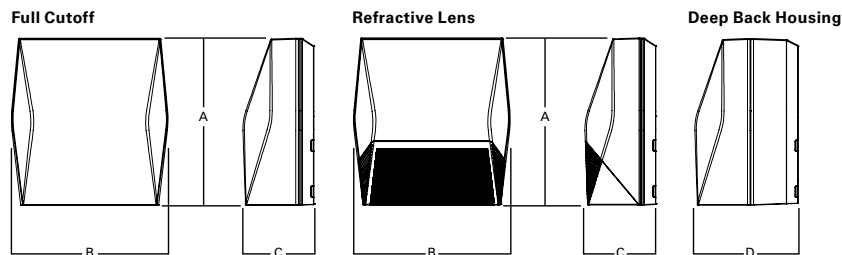
Quick Facts

- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Connected Systems

- WaveLinX Lite
- Enlighted

Dimensional Details



Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: AXCS1A-AP-347V

Domestic Preferences ²⁸	Model Series ¹	LED Color Temperature	Color	Options (Add as Suffix)
<p>[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act</p>	<p>Full Cutoff AXCS1A=14W AXCS2A=21W AXCS3A=27W AXCS4A=44W AXCS5A=52W AXCL6A=56W AXCL8A=72W AXCL10A=102W AXCL12A=123W</p> <p>Refractive Lens AXCS1ARL=14W AXCS2ARL=21W AXCS3ARL=27W AXCS4ARL=44W AXCS5ARL=52W AXCL6ARL=56W AXCL8ARL=72W AXCL10ARL=102W AXCL12ARL=123W</p>	<p>[Blank]=4000K, Neutral C=5000K, Cool W=3000K, Warm</p>	<p>[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum</p>	<p>347V=347V² 480V=480V² PC1=Photocontrol 120V^{3,4,5} PC2=Photocontrol 208-277V, 347V, 480V^{4,5,6} PC=Photocontrol 120-277V, 347V, 480V^{4,7,8} KKIT=Knuckle Floodlight Mount⁷ TRNKIT=Trunnion Floodlight Mount SFKIT=Slipfitter Floodlight Mount PMAKIT=Pole Mount Arm ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle^{4,9} ZW-SWPD4XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height^{4,9,10,11} ZW-SWPD5XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height^{4,9,10,11} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height^{4,9,12} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height^{4,9,12} MSP/DIM-LT2=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height^{4,9,13} MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height^{4,9,13} MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height^{4,9,13} MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height^{4,9,13} CBP=Cold Weather Battery Pack^{3,14,15,16,17,18} CBP-CEC=Cold Weather Battery Pack, CEC compliant^{3,14,15,16,17,18} 10K=10kV/10kA Surge Protection HA=50°C High Ambient^{15,19} GRF=Glare Reducing Lens²⁰ AHD145=After Hours Dim, 5 Hours^{5,21} AHD245=After Hours Dim, 6 Hours^{5,21} AHD255=After Hours Dim, 7 Hours^{5,21} AHD355=After Hours Dim, 8 Hours^{5,21}</p>
Accessories (Order Separately) ^{22,29}				
<p>VS/AXCS-XX=Vandal Shield Axcent Small^{7,23} VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor)^{7,23} WG/AXCS=Wire Guard Axcent Small⁷ WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor)⁷ VS/AXCL-XX=Vandal Shield Axcent Large^{5,23} VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor)^{5,23} WG/AXCL=Wire Guard Axcent Large⁵ WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor)⁵ BB/AXC=Axcent Lumen Select Back Box, Carbon Bronze²⁴ BB/AXC-PC=Axcent Lumen Select Back Box with PC, Carbon Bronze^{24,25} BB/AXC-WT=Axcent Lumen Select Back Box, Summit White²⁴ BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, Summit White^{24,25}</p>		<p>KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small)⁷ SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small)⁷ TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small)⁷ TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large)⁵ SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large)⁵ PMAKIT-XX=Pole Mount Kit ISHH-01=Integrated Sensor Programming Remote²⁶ MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height^{10,11,27} SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height^{10,11,27}</p>		
<p>NOTES:</p> <ol style="list-style-type: none"> DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages. Not available in 347 or 480 VAC. Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together. Only available on AXCL6-AXCL12 models. Used with 277, 347, and 480 VAC options. Only available on AXCS1-AXCS5 models. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information. Uses deep back housing. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. Replace XX with sensor color (WH, BZ, or BK). Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information. The ISHH-01 accessory is required to adjust parameters. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models. Not available with AXCS5 or AXCL12 models. Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4. CBP cannot be used with PC and motion sensor (MSP, ZW, or LWR). CBP can be used with PC or motion sensor (MSP, ZW, or LWR). Can not be ordered with CBP or PC options. Use dedicated IES files on product website for lumen values and distributions. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information. Replace XX with color designation. For use with full cutoff lens configurations only. Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR). Photocell only operates at 120-277V input voltages. Not for use with 347 or 480V systems. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. Requires 4-PIN twistlock receptacle (ZW) option. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 				

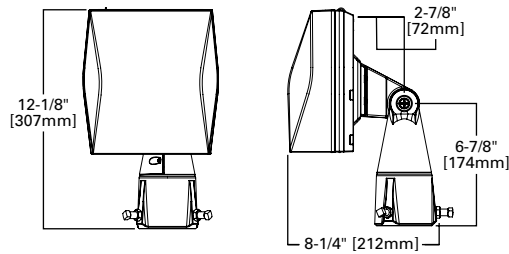
Stock Ordering Information

Model Series ¹			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=102W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=123W
AXCS3A=27W	AXCL6A-347V=56W	AXCS3ARL=27W	AXCL6ARL-347V=56W
AXCS4A=44W	AXCL8A-347V=72W	AXCS4ARL=44W	AXCL8ARL-347V=72W
AXCS5A=52W	AXCL10A-347V=102W	AXCS5ARL=52W	AXCL10ARL-347V=102W
AXCL6A=56W	AXCL12A-347V=123W	AXCL6ARL=56W	AXCL12ARL-347V=123W
AXCL8A=72W		AXCL8ARL=72W	

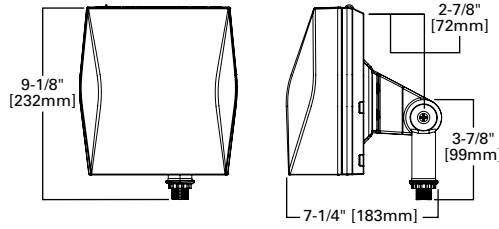
Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

Mounting Details

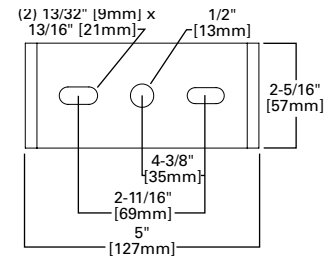
Slipfitter Mount (Small)
Tenon OD: 2-3/8" | EPA: 0.60



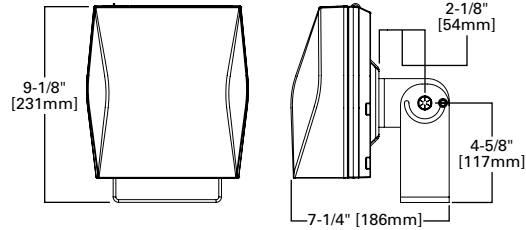
Knuckle Mount (Small)



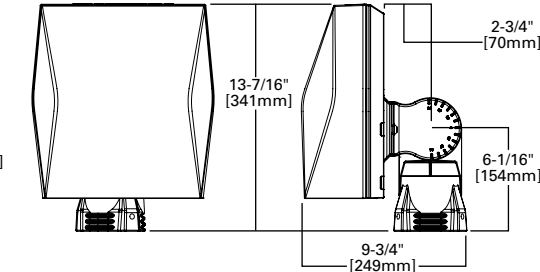
Trunnion Mount Detail



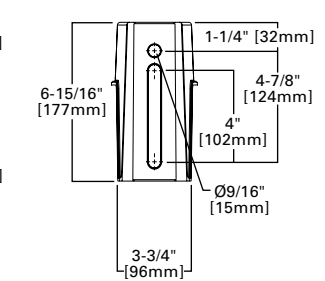
Trunnion Mount (Small)



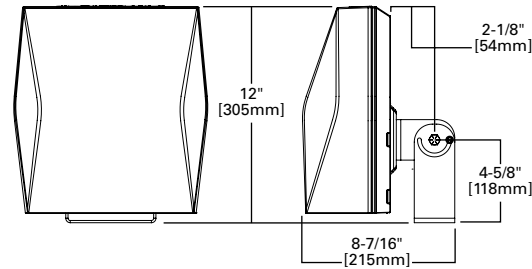
Slipfitter Mount (Large)
Tenon OD: 2-3/8" to 2-7/8" | EPA: 1.10



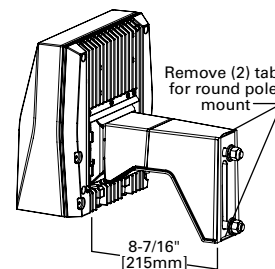
Pole Mount Arm Drill Pattern



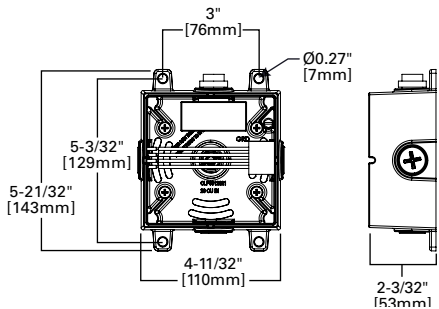
Trunnion Mount (Large)



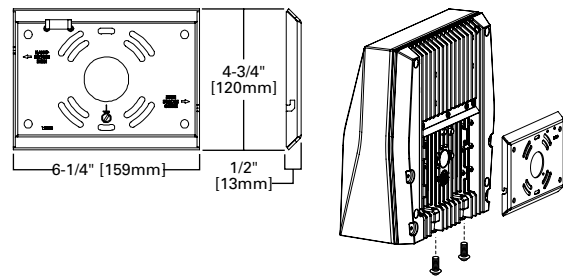
Pole Mount Arm (Large)
EPA: 1.10



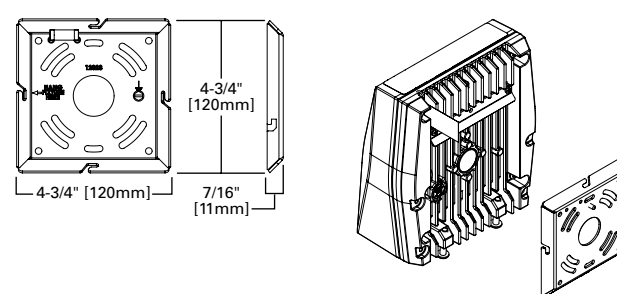
Lumen Select Back Box



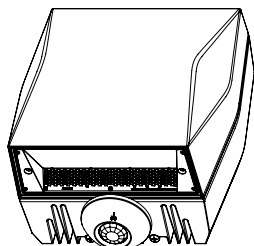
Wall Mount Plate Detail (Large)



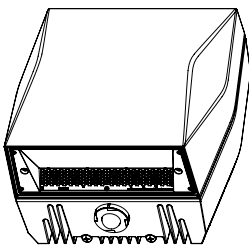
Wall Mount Plate Detail (Small)



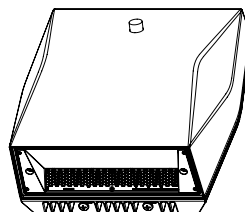
Enlighted Sensor



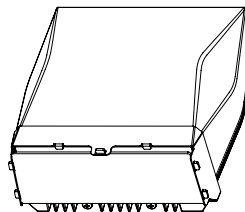
Occupancy Sensor



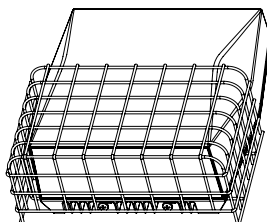
Button Photocontrol



Vandal Shield



Wire Guard



Product Specifications

Construction

- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics

- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical

- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion

- 0-10V dimming driver is standard with leads external to the fixture

Mounting

- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

Emergency Egress

- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack

- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
Configuration					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		60	76	106
Input Current @ 120V (A)		0.50	0.63	0.88
Input Current @ 240V (A)		0.25	0.32	0.44
Input Current @ 277V (A)		0.22	0.27	0.38
Configuration				
Full Cutoff	4000K/5000K Lumens	1,070		
	3000K Lumens	945		
Refractive Lens	4000K/5000K Lumens	1,098		
	3000K Lumens	973		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCL6A*	12963843 or 12964235	75%	40%
AXCL6A*	13495473 or 13495474 or Other	69%	47%
AXCL8A*	12963842 or 12964234	84%	48%
AXCL8A*	13495475 or 13495476 or Other	69%	47%
AXCL10A*	12963840 or 12964233	84%	48%
AXCL10A*	13495477 or 13495478 or Other	69%	47%
AXCL12A*	12902056 or 12902057	85%	50%
AXCL12A*	13495479 or 13495480 or Other	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 3A		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
Up to 5A		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 8A		
25°C	94%	556,000
40°C	94%	556,000
50°C	92%	340,000
Up to 10A		
25°C	94%	556,000
40°C	94%	478,000
50°C	87%	207,000
Up to 12A		
25°C	94%	151,000
40°C	81%	125,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

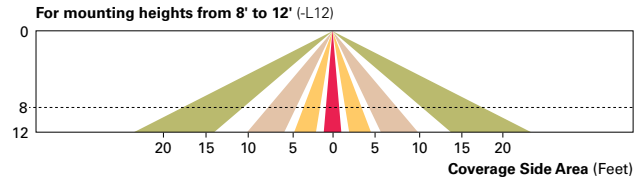
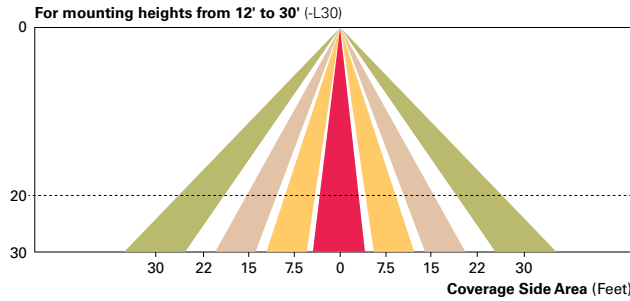
Photocontrol (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

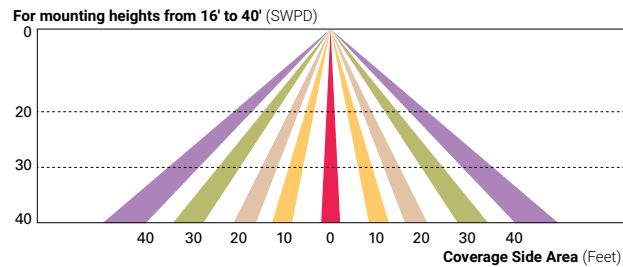
These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.

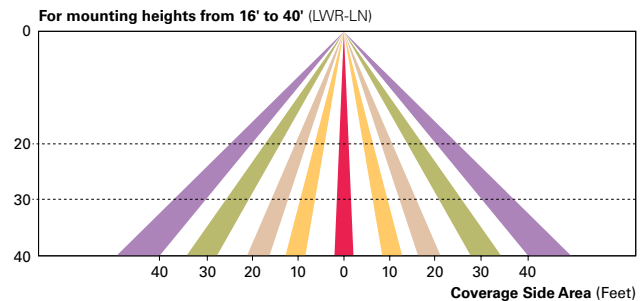
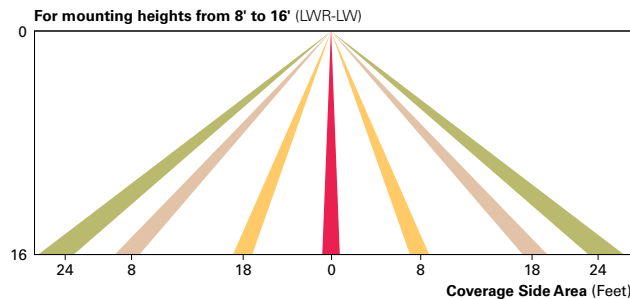


WaveLinX Wireless Control and Monitoring System The WaveLinX Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinX Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinX Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for “dusk-to-dawn” control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.



Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Axcent

Wall Mount Luminaire

Product Features



Product Certifications



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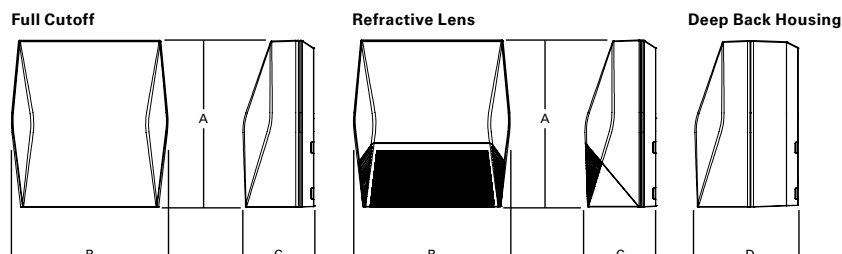
Quick Facts

- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Connected Systems

- WaveLinX Lite
- Enlighted

Dimensional Details



Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: AXCS1A-AP-347V

Domestic Preferences ²⁸	Model Series ¹	LED Color Temperature	Color	Options (Add as Suffix)
<p>[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act</p>	<p>Full Cutoff AXCS1A=14W AXCS2A=21W AXCS3A=27W AXCS4A=44W AXCS5A=52W AXCL6A=56W AXCL8A=72W AXCL10A=102W AXCL12A=123W</p> <p>Refractive Lens AXCS1ARL=14W AXCS2ARL=21W AXCS3ARL=27W AXCS4ARL=44W AXCS5ARL=52W AXCL6ARL=56W AXCL8ARL=72W AXCL10ARL=102W AXCL12ARL=123W</p>	<p>[Blank]=4000K, Neutral C=5000K, Cool W=3000K, Warm</p>	<p>[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum</p>	<p>347V=347V² 480V=480V² PC1=Photocontrol 120V^{3,4,5} PC2=Photocontrol 208-277V, 347V, 480V^{4,5,6} PC=Photocontrol 120-277V, 347V, 480V^{4,7,8} KKIT=Knuckle Floodlight Mount⁷ TRNKIT=Trunnion Floodlight Mount SFKIT=Slipfitter Floodlight Mount PMAKIT=Pole Mount Arm ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle^{4,9} ZW-SWPD4XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height^{4,9,10,11} ZW-SWPD5XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height^{4,9,10,11} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height^{4,9,12} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height^{4,9,12} MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height^{4,9,13} MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height^{4,9,13} MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height^{4,9,13} MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height^{4,9,13} CBP=Cold Weather Battery Pack^{3,14,15,16,17,18} CBP-CEC=Cold Weather Battery Pack, CEC compliant^{3,14,15,16,17,18} 10K=10kV/10kA Surge Protection HA=50°C High Ambient^{15,19} GRF=Glare Reducing Lens²⁰ AHD145=After Hours Dim, 5 Hours^{5,21} AHD245=After Hours Dim, 6 Hours^{5,21} AHD255=After Hours Dim, 7 Hours^{5,21} AHD355=After Hours Dim, 8 Hours^{5,21}</p>
Accessories (Order Separately) ^{22,29}				
<p>VS/AXCS-XX=Vandal Shield Axcent Small^{7,23} VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor)^{7,23} WG/AXCS=Wire Guard Axcent Small⁷ WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor)⁷ VS/AXCL-XX=Vandal Shield Axcent Large^{5,23} VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor)^{5,23} WG/AXCL=Wire Guard Axcent Large⁵ WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor)⁵ BB/AXC=Axcent Lumen Select Back Box, Carbon Bronze²⁴ BB/AXC-PC=Axcent Lumen Select Back Box with PC, Carbon Bronze^{24,25} BB/AXC-WT=Axcent Lumen Select Back Box, Summit White²⁴ BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, Summit White^{24,25}</p>		<p>KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small)⁷ SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small)⁷ TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small)⁷ TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large)⁵ SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large)⁵ PMAKIT-XX=Pole Mount Kit ISHH-01=Integrated Sensor Programming Remote²⁶ MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height^{10,11,27} SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height^{10,11,27}</p>		
<p>NOTES:</p> <ol style="list-style-type: none"> DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages. Not available in 347 or 480 VAC. Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together. Only available on AXCL6-AXCL12 models. Used with 277, 347, and 480 VAC options. Only available on AXCS1-AXCS5 models. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information. Uses deep back housing. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. Replace XX with sensor color (WH, BZ, or BK). Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information. The ISHH-01 accessory is required to adjust parameters. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models. Not available with AXCS5 or AXCL12 models. Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4. CBP cannot be used with PC and motion sensor (MSP, ZW, or LWR). CBP can be used with PC or motion sensor (MSP, ZW, or LWR). Can not be ordered with CBP or PC options. Use dedicated IES files on product website for lumen values and distributions. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information. Replace XX with color designation. For use with full cutoff lens configurations only. Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR). Photocell only operates at 120-277V input voltages. Not for use with 347 or 480V systems. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. Requires 4-PIN twistlock receptacle (ZW) option. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 				

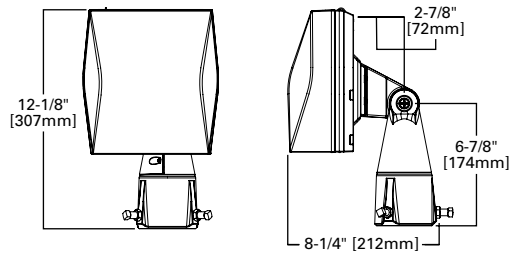
Stock Ordering Information

Model Series ¹			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=102W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=123W
AXCS3A=27W	AXCL6A-347V=56W	AXCS3ARL=27W	AXCL6ARL-347V=56W
AXCS4A=44W	AXCL8A-347V=72W	AXCS4ARL=44W	AXCL8ARL-347V=72W
AXCS5A=52W	AXCL10A-347V=102W	AXCS5ARL=52W	AXCL10ARL-347V=102W
AXCL6A=56W	AXCL12A-347V=123W	AXCL6ARL=56W	AXCL12ARL-347V=123W
AXCL8A=72W		AXCL8ARL=72W	

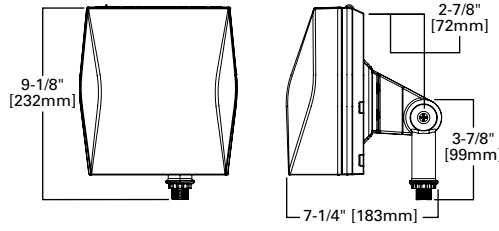
Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

Mounting Details

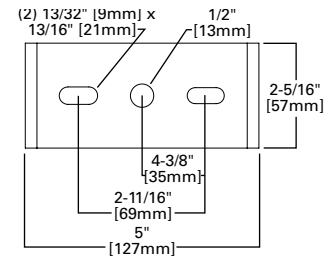
Slipfitter Mount (Small)
Tenon OD: 2-3/8" | EPA: 0.60



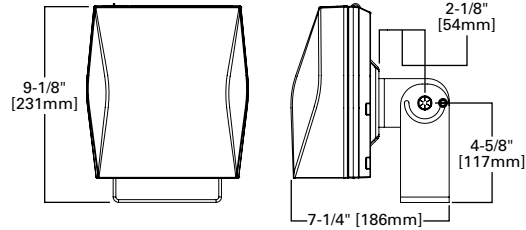
Knuckle Mount (Small)



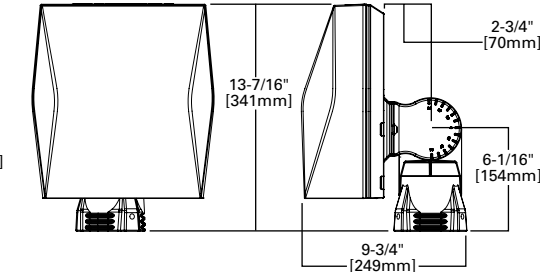
Trunnion Mount Detail



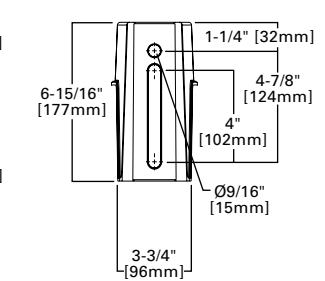
Trunnion Mount (Small)



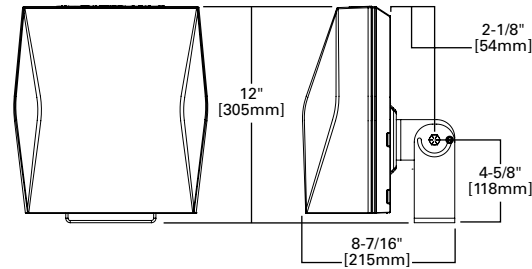
Slipfitter Mount (Large)
Tenon OD: 2-3/8" to 2-7/8" | EPA: 1.10



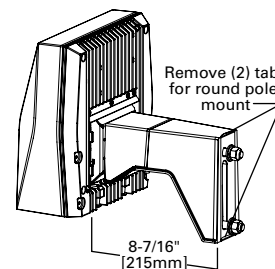
Pole Mount Arm Drill Pattern



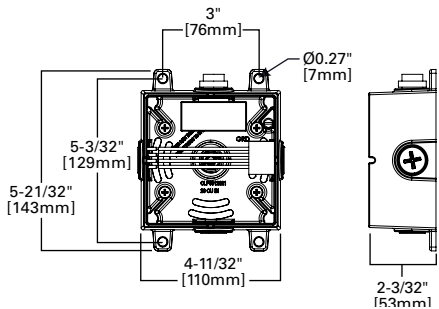
Trunnion Mount (Large)



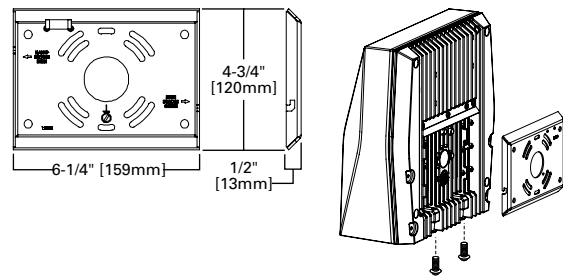
Pole Mount Arm (Large)
EPA: 1.10



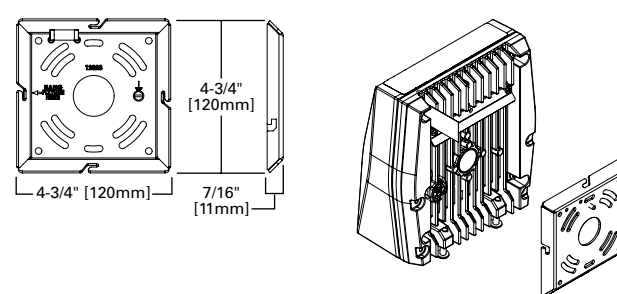
Lumen Select Back Box



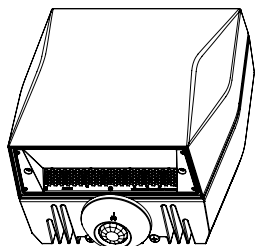
Wall Mount Plate Detail (Large)



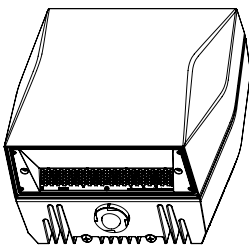
Wall Mount Plate Detail (Small)



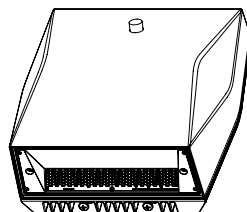
Enlighted Sensor



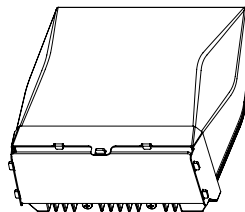
Occupancy Sensor



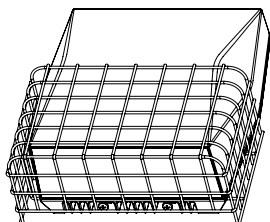
Button Photocontrol



Vandal Shield



Wire Guard



Product Specifications

Construction

- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics

- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical

- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion

- 0-10V dimming driver is standard with leads external to the fixture

Mounting

- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

Emergency Egress

- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack

- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
Configuration					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		60	76	106
Input Current @ 120V (A)		0.50	0.63	0.88
Input Current @ 240V (A)		0.25	0.32	0.44
Input Current @ 277V (A)		0.22	0.27	0.38
Configuration				
Full Cutoff	4000K/5000K Lumens	1,070		
	3000K Lumens	945		
Refractive Lens	4000K/5000K Lumens	1,098		
	3000K Lumens	973		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCL6A*	12963843 or 12964235	75%	40%
AXCL6A*	13495473 or 13495474 or Other	69%	47%
AXCL8A*	12963842 or 12964234	84%	48%
AXCL8A*	13495475 or 13495476 or Other	69%	47%
AXCL10A*	12963840 or 12964233	84%	48%
AXCL10A*	13495477 or 13495478 or Other	69%	47%
AXCL12A*	12902056 or 12902057	85%	50%
AXCL12A*	13495479 or 13495480 or Other	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 3A		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
Up to 5A		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 8A		
25°C	94%	556,000
40°C	94%	556,000
50°C	92%	340,000
Up to 10A		
25°C	94%	556,000
40°C	94%	478,000
50°C	87%	207,000
Up to 12A		
25°C	94%	151,000
40°C	81%	125,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

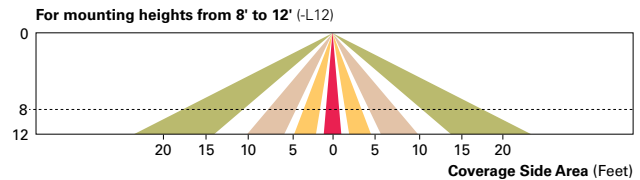
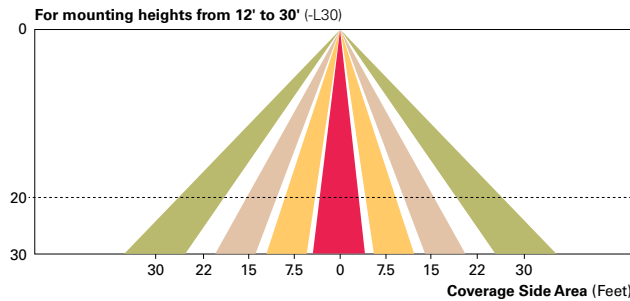
Photocontrol (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

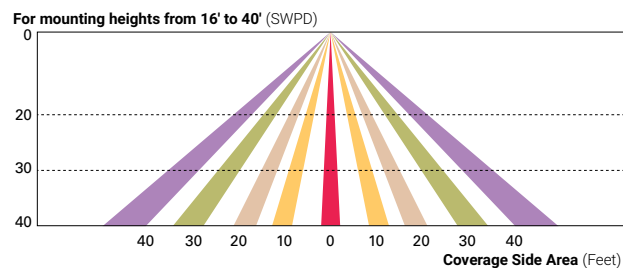
These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.

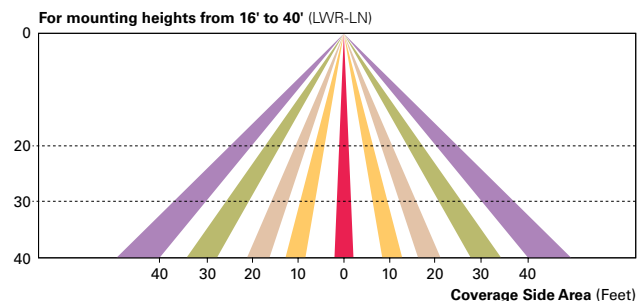
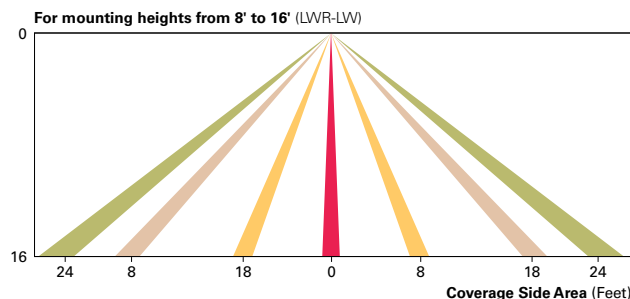


WaveLinX Wireless Control and Monitoring System The WaveLinX Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinX Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinX Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for “dusk-to-dawn” control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.



Product information for metal wall panels (all buildings), roofs for concessions buildings.
Wall page 11 and roof page 25.

Protected by



Metal Wall & Roof Systems

North America

Architectural Metal Wall & Roof Systems Product Portfolio

Single Element Building Envelope Solutions



Morin specializes in roll forming of architectural heavier gauge single skin metal wall and roof systems.

With over 100 profiles and three manufacturing locations, Morin is well positioned to produce for any size project.

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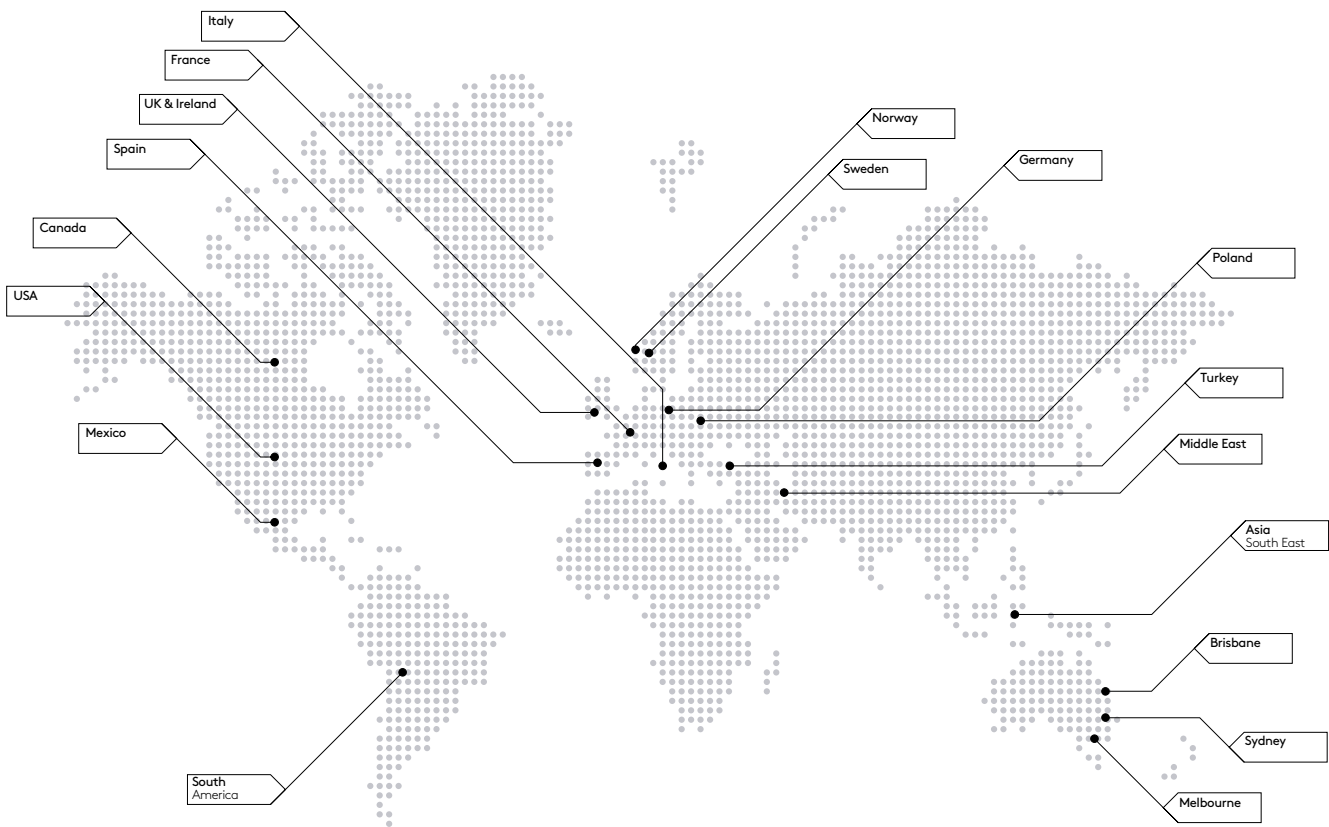
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Your Global Partner

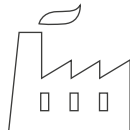
Morin is part of the Kingspan Group plc., founded in Kingscourt Co. Cavan Ireland in 1965, Kingspan is a global leader in the design, development and delivery of advanced building envelope products and solutions.



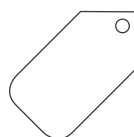
13
regional R&D
centers



159
manufacturing
sites worldwide



5.3
billion USD
revenue in 2019



15,000+
employees
worldwide



Kingspan Insulated Panels are pioneering better technologies and methods of building for a low carbon world. Improving building performance, construction methods and ultimately people's lives – that's what drives our people across the world. Energy efficiency is at the heart of Kingspan's innovation, from making the industry's most thermally efficient core for our insulated panels, to producing the most airtight interfaces, to providing technical and field-service support on how to build optimally.

Kingspan offers aesthetic flexibility with a vast range of insulated panel profiles supported by state-of-the-art specialty fabrications. Our commercial insulated metal roof and wall panel systems combine design flexibility, efficiency and performance to create the ultimate building envelope solution.

Together with the learnings from our ongoing research into better building design, these enhanced Kingspan envelopes will take our built environment to the next era of efficiency and wellbeing.



Morin

Morin is the industry's most versatile manufacturer of single element metal wall and roof panels.

With our three production facilities located in Bristol, CT, Fontana, CA and DeLand, FL, we have a combined production capacity of over 50 million square feet.





The Morin story goes well beyond the panels. We thrive in helping customers bring their most challenging design ideas to life. Beyond panels we offer a complete suite of metal finishes including perforations, corners, coordinated louvers and fasteners and custom extrusions for a complete look.

Much More Than Panels

We offer over 100 wall and roof panel options with a wide range of panels with unique profiles including over 30 integrated panels. Our Matrix, Integrity and Pulse series of panels all have interlocking joinery and can be easily integrated.

Morin Systems provide for a complete, finished, custom fabricated look. Rounded or miter corners, extrusions, foam backers and custom cut components will make for a more professional looking, longer lasting job.

We know we are just one part of many in a project, we want to make our part look its best and have all the tools available from design to installation for you.

Sustainability

Morin recognizes the significance of climate change to global society and the importance of addressing the built environment as part of efforts to lower greenhouse gas emissions. We are committed to providing solutions for our customers and addressing our own facilities.

Our products will assist in meeting the requirements that are specified in the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) Green Building Rating System.



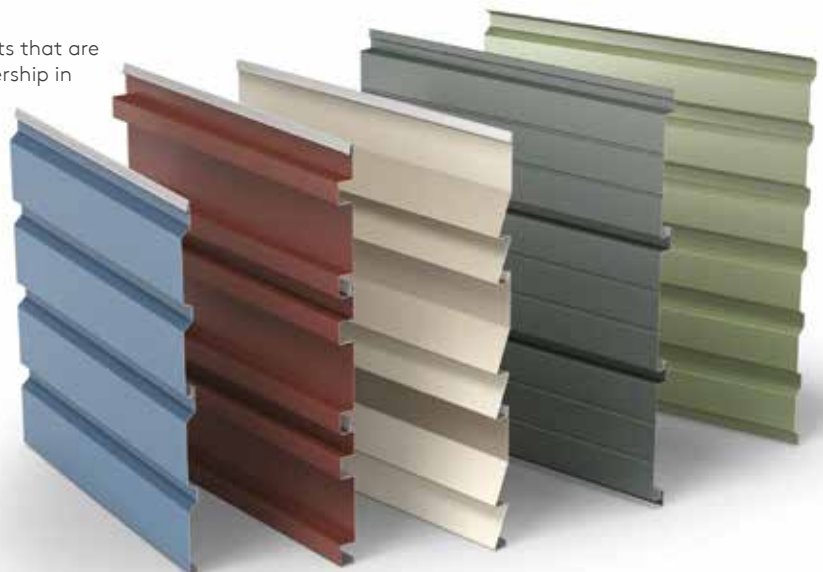
Technical Support

Morin has technical support available from start to finish. We are there to help you through every phase of building from technical CAD support to on-site installation.

We have on-site technical staff to help with drawings, design, cost-effective construction application and technical designs for complicated projects. We also offer on-site installation guidance and support from our expertly trained knowledgeable team.

Our nationwide sales network and in-house technical service teams provide innovative solutions for today's progressive architecture. Visit www.morincorp.com for access to profiles, specifications, AutoCAD details, load span charts and technical manuals.

Morin's knowledgeable sales staff provides AIA/CES approved seminars on single element architectural metal wall and roof systems.





“From concept to completion,
Morin is there to support.”



Technical Support



Customer Service



Sales Support



Field Services



Warranty



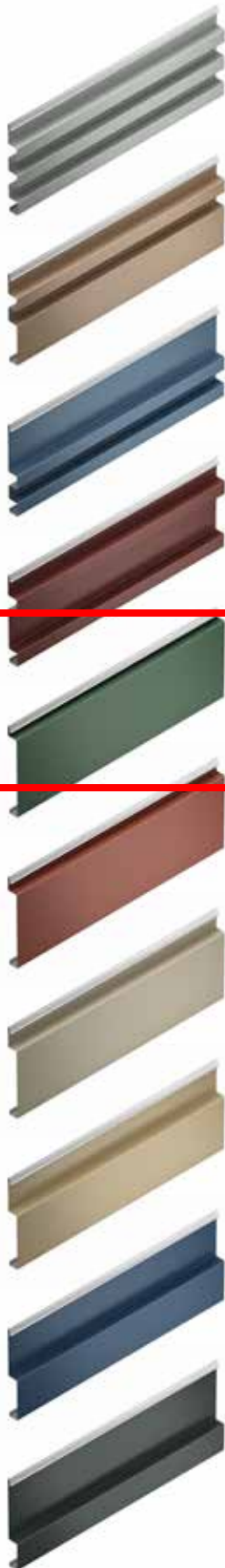
Marketing Support



Matrix Wall Series®

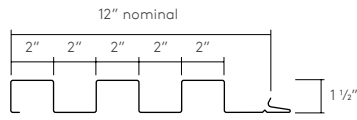
Inspired by technology, Morin Matrix Series® is the next evolution in an integrated concealed fastener rainscreen wall panel system.



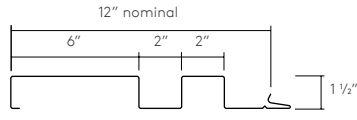


WALL

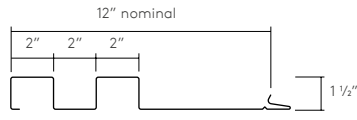
Matrix
MX-1



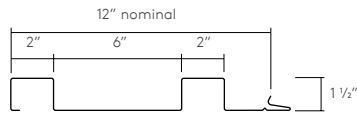
Matrix
MX-2



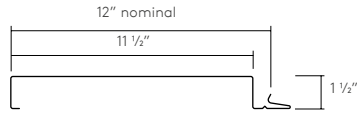
Matrix
MX-3



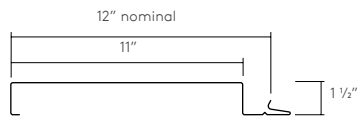
Matrix
MX-4



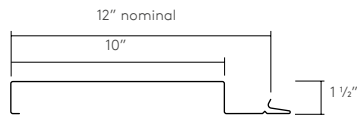
Matrix
MX-6



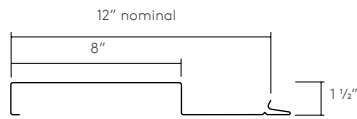
Matrix
MX-7



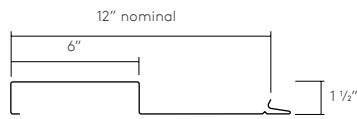
Matrix
MX-8



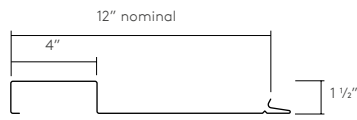
Matrix
MX-9



Matrix
MX-10



Matrix
MX-11



With ten unique panel profiles, as well as complimentary extruded aluminum trims and MiterSeam corners, the designer has all the tools necessary to create the next award winning design.

- Concealed clip and fastener design
- Can be installed horizontally or vertically
- Weather resistant or rainscreen rear ventilated application
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking available

Panel Depth:
1 1/2" (38mm)

Cover Width:
12" (305mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

**Galvalume® / Zinalume®
Painted Steel Options:**
18 GA* (1.19mm) / 20 GA (1.0mm) /
22 GA (.80mm) / 24 GA* (.60mm)

Aluminum Options:
.032" (.80mm) / .040" (1mm) /
.050" (1.27mm)

Stainless Steel Options:
22 GA (.80mm) / 24 GA (.60mm)

Zinc Options:
20 GA (1.0mm) / 22 GA (.80mm)

Natural Copper Options:
20 oz. / 16 oz.



Clip detail

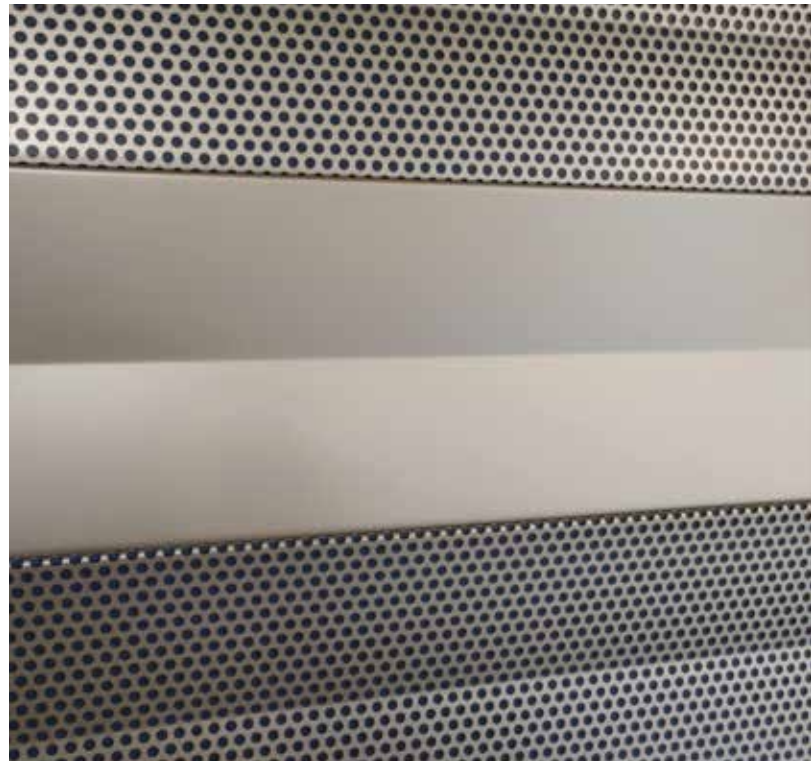
*Only available on certain profiles.



Easy Integration
Common joint allows
multiple panel integration
with Integrity Series and
Pulse Series®

Pulse Wall Series®

The Morin Pulse Series® adds an exciting angular look to the integrated concealed fastener rainscreen wall panel system.





Pulse
P-1



Pulse
P-2



Pulse
P-3



Pulse
P-4



Pulse
P-9



With five panel profiles as well as complementary extruded aluminum trims and miter seam corners, the angular integrated Pulse Wall Series adds a nice dimension to help facilitate the next design.

- Ideal for new or retrofit projects
- Five unique angular profiles
- Concealed clip / fastener design
- Weather resistant or rainscreen rear ventilated application
- Smooth surface standard; stucco embossed optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking
- Horizontal or vertical

Panel Depth:
1 1/2" (38mm)

Cover Width:
12" (305mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

Galvalume® / Zinalume®

Painted Steel Options:
18 GA (1.19mm) / 20 GA (1.0mm) /
22 GA (.80mm) / 24 GA (.60mm)

Aluminum Options:
.032" (.80mm) / .040" (1mm) /
.050" (1.27mm)

Stainless Steel Options:
22 GA (.80mm) / 24 GA (.60mm)

Zinc Options:
20 GA (1.0mm) / 22 GA (.80mm)

Natural Copper Options:
20 oz. / 16 oz.

Application:
Horizontal or vertical



Easy Integration
Common joint allows multiple panel integration with Integrity Series and Matrix Series®

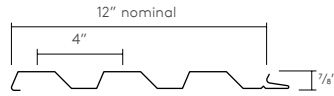
Integrity Wall Series

Integrity Wall Series is an integrated, concealed fastener, rainscreen, wall panel system featuring fifteen unique profiles.

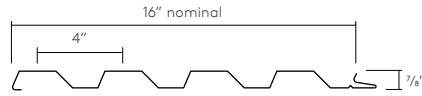




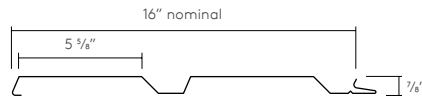
Integrity
X-12



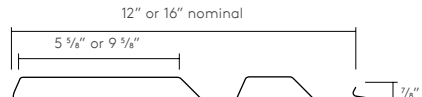
Integrity
X-16



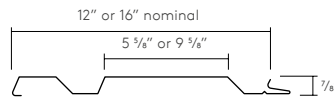
Integrity
XAB-16



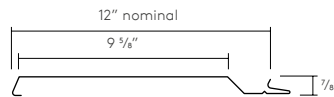
Integrity
XA-12 /
XA-16



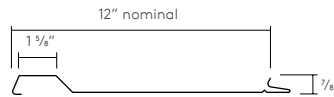
Integrity
XB-12 /
XB-16



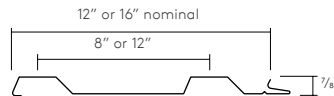
Integrity
XC-12



Integrity
XD-12



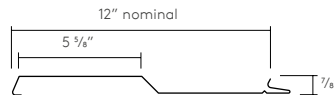
Integrity
XE-12 /
XE-16



Integrity
XF-12 /
XF-16



Integrity
XG-12



Integrity
S-16



The asymmetrical shape of the X-12 panel was created by the well known Japanese architect Fumihiko Maki in the early 1990's. Since then it has become one of the most popular profiles selected by architects for use on buildings of all types.

- Concealed clip and fastener design
- Weather resistant or rainscreen rear ventilated application
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking available

Panel Depth:
7/8" (22mm)

Cover Width:
12" (305mm) or 16" (406mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

**Galvalume® / Zinalume®
Painted Steel Options:**
18 GA (1.19mm) / 20 GA (1.0mm) /
22 GA (.80mm) / 24 GA (.60mm)

Aluminum Options:
.032" (.80mm) / .040" (1mm) /
.050" (1.27mm)

Stainless Steel Options:
20 GA (1.0mm) / 22 GA (.80mm) /
24 GA (.60mm)

Zinc Options:
20 GA (1.0mm) / 22 GA (.80mm)

Natural Copper Options:
20 oz. / 16 oz.

Application:
Horizontal or vertical



Easy Integration
Common joint allows multiple panel integration with Pulse Series® and Matrix Series®

Concealed Fastener Wall Series

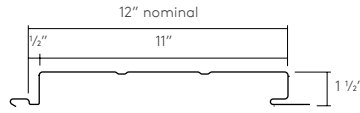
Concealed Fastener panels are available in ten distinctive designs – choose from flat, reveal, striated or chevron profiles.



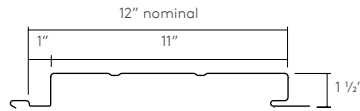


Flat

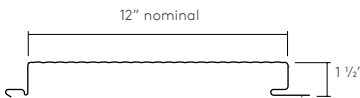
**Concealed
A-12-0**



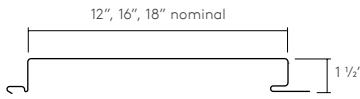
**Concealed
AA-12-2**



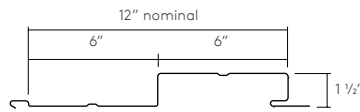
**Concealed
F-12-S**



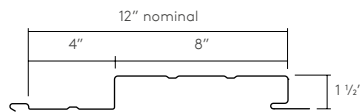
**Concealed
F-12-2 /
F-16-2 /
F-18-2**



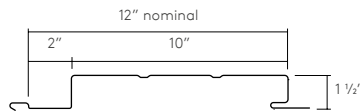
**Concealed
N-12-2**



**Concealed
T-12-2**

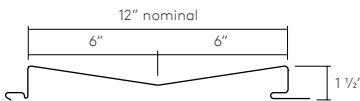


**Concealed
TT-12-2**

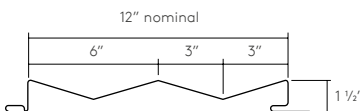


Chevron

**Concealed
W-12**



**Concealed
Z-12**



With a common side joint the designer can mix and match panel profiles throughout the facade creating the exact desired effect. Panels may be installed vertically, horizontally, or in combination.

- Concealed fastener design
- Weather resistant or rainscreen rear ventilated application
- Smooth surface standard; stucco embossed, textured or perforated optional
- All PVDF painted finishes available
- Optional factory caulking available

Panel Depth:

1 1/2" (38mm)

Cover Width:

12" (305mm) standard. 16" (406mm) and 18" (457mm) optional on F profiles only

Lengths:

5' (1.52m) to 30' (9.14m) standard. Shorter and longer lengths available

Galvalume® / Zinalume®

Painted Steel Options:

18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (.80mm) / 24 GA (.60mm)

Aluminum Options:

.032" (.80mm) / .040" (1mm) / .050" (1.27mm)

Stainless Steel Options:

20 GA (1.0mm) / 22 GA (.80mm) / 24 GA (.60mm)

Zinc Options:

20 GA (1.0mm) / 22 GA (.80mm)

Natural Copper Options:

20 oz. / 16 oz.

Application:

Horizontal or vertical

Exposed Fastener Wall Series

Exposed fastener wall and roof panels are used on every type of building today from industrial manufacturing plants to Class A office buildings.

Whether it's the traditional wave C profile or the bold O-24 profile, the many interesting designs available within this product line are numerous.

- Seventeen unique profiles
- Overlapping side joint design
- Weather resistant or rainscreen rear ventilated application
- May be insulated to meet required thermal values
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- Perforated options available
- All PVDF painted finishes available

Panel Depth:

1/2" (13mm) to 4" (102mm)

Cover Width:

24" (610mm) to 40" (1016mm)

Lengths:

5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

Galvalume® / Zinalume®**Painted Steel Options:**

18 GA (1.19mm) / 20 GA (1.0mm) /
22 GA (.80mm) / 24 GA (.60mm)

Aluminum Options:

.032" (.80mm) / .040" (1mm) /
.050" (1.27mm)

Stainless Steel Options:

20 GA (1.0mm) / 22 GA (.80mm) /
24 GA (.60mm)

Zinc Options:

20 GA (1.0mm) / 22 GA (.80mm)

Natural Copper Options:

20 oz. / 16 oz.

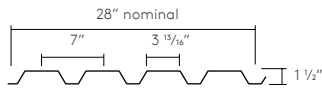
Application:

Horizontal or vertical

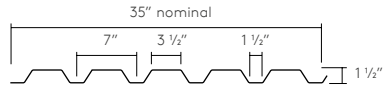




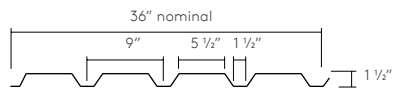
Exposed BR-28 Profile B



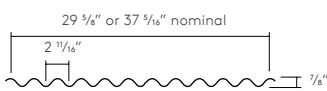
Exposed BR7-35 Profile B*



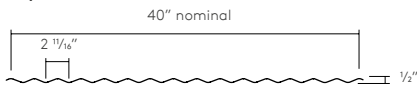
Exposed BR9-36 Profile B



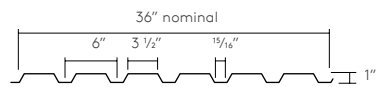
**Exposed C-37 Profile B
Exposed C-29 Profile B**



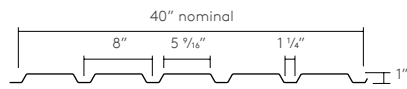
Exposed C-40 Profile B



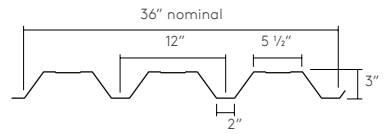
Exposed E-36 Profile B



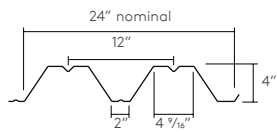
Exposed E8-40 Profile B



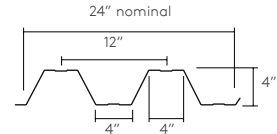
Exposed MR-36 Profile B



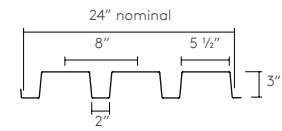
Exposed O-24 Profile B



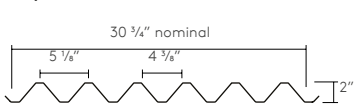
Exposed O-24W Profile B



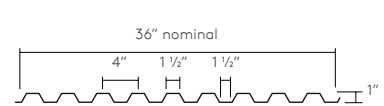
Exposed U-24 Profile B



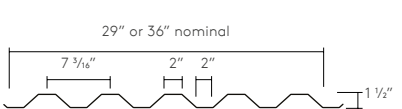
Exposed VB-31 Profile B



Exposed VB-36 Profile B



**Exposed Y-29 Profile B
Exposed Y-36 Profile B**



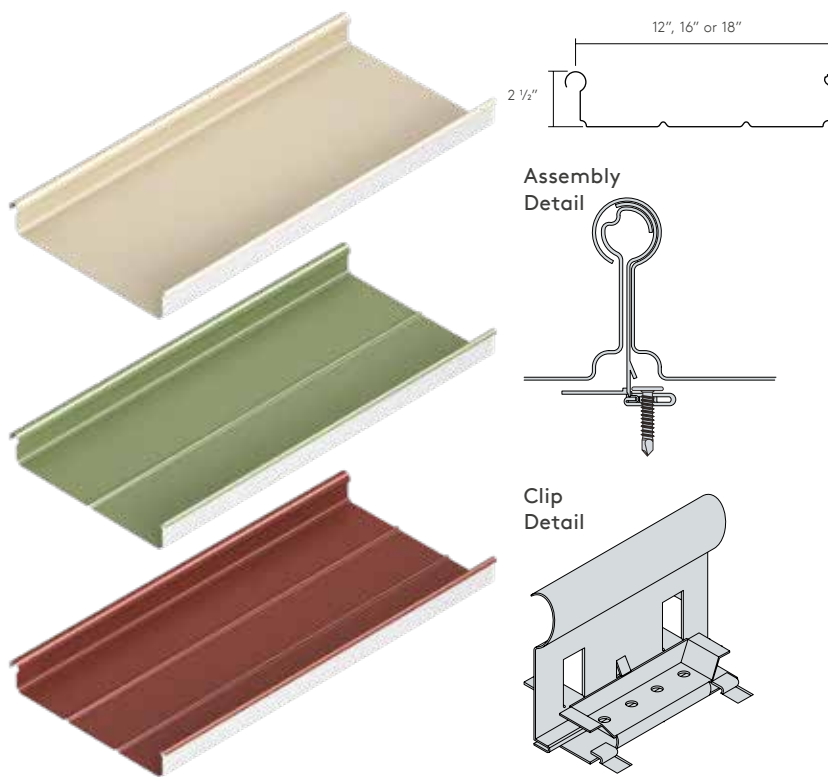
MorZip® Roof and Wall Series

MorZip® Naturals for roof and wall are available in stainless steel, zinc, copper and aluminum, will last the lifetime of the building.



Dual purpose wall and roof system offers limitless design flexibility. No longer does the designer have to select a separate wall and roofing panel.

MorZip® does it all, providing seamless transition from wall to roof and back again. This panel profile is our most versatile structural standing seam roof system used on high profile projects.



MorZip® painted metals offered in aluminum or Galvalume® / Zinalume®.

- Mechanically seamed side lap provides unsurpassed weather tightness at slopes as low as 1/2:12
- Hidden clip fastening eliminates need for through fasteners
- Jobsite roll forming of MorZip® panels in continuous lengths is available to eliminate panel end laps
- Curving capabilities include convex lay-down and mechanical curve and concave mechanical curve
- Tapered options are either a curved tapered or a straight tapered MorZip® panel

Materials Available:

MorZip® Naturals

- Bare aluminum .050 / .040 in
- Stainless steel 20 / 22 gauge
- Zinc 1.0mm
- Copper 20 oz.

MorZip® Painted Metals

- Aluminum .050 / .040 in
- Steel - Galvalume® / Zinalume® 20/22 gauge

Convex Lay-down Curve



Aluminum Thickness (in)	Stainless Steel Gauge (ga)	Zinc Thickness (mm)	Copper Weight /sq.ft (oz)
.032	24	0.80	16
.040	22	1.00	20
.050	20	1.25	32

Convex Mechanical Curve



Aluminum Thickness (in)	Stainless Steel Gauge (ga)	Zinc Thickness (mm)	Copper Weight /sq.ft (oz)
.032	24	0.80	16
.040	22	1.00	20
.050	20	1.25	32

Concave Mechanical Curve

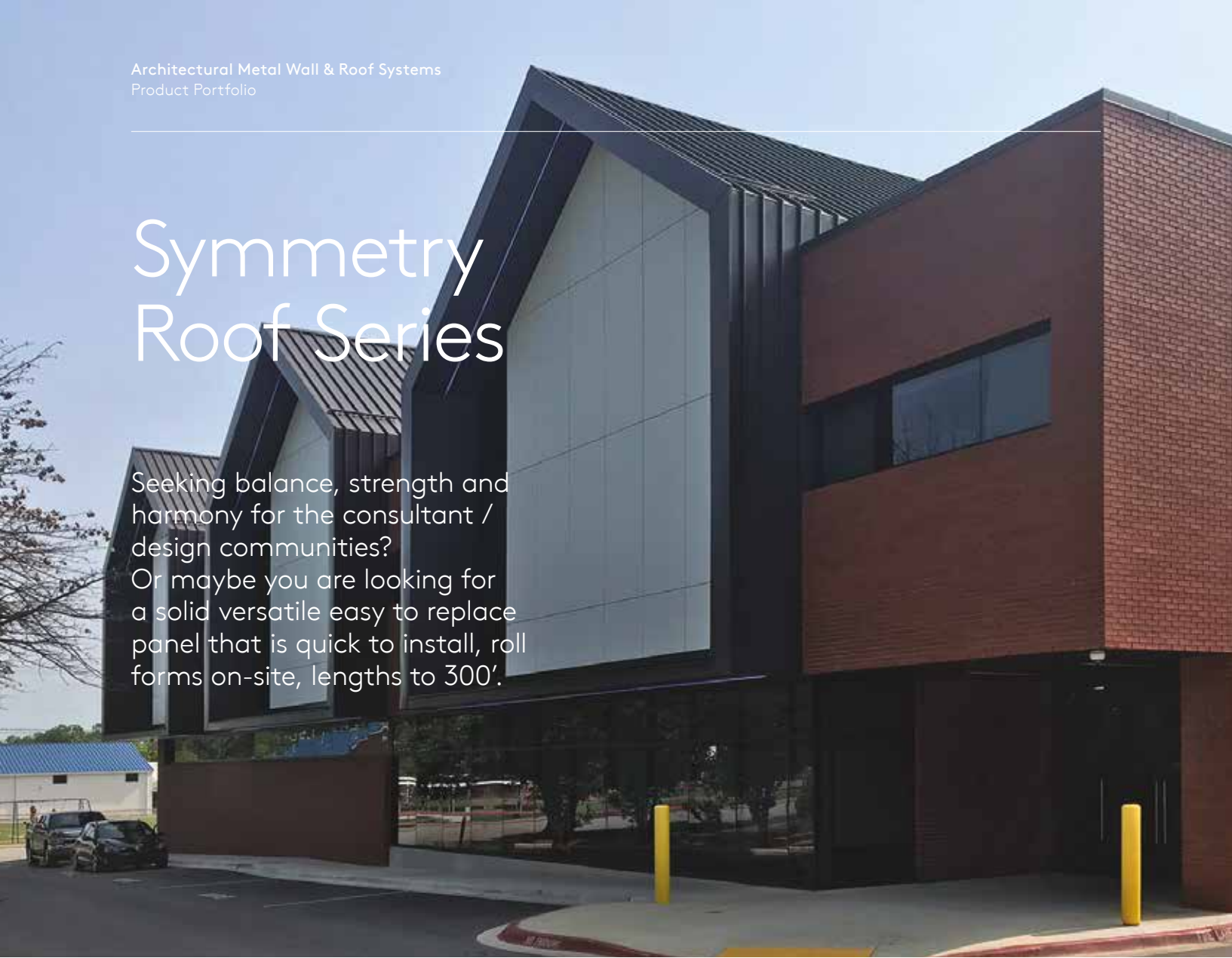


Aluminum Thickness (in)	Stainless Steel Gauge (ga)	Zinc Thickness (mm)	Copper Weight /sq.ft (oz)
.032	24	0.80	16
.040	22	1.00	20
.050	20	1.25	32

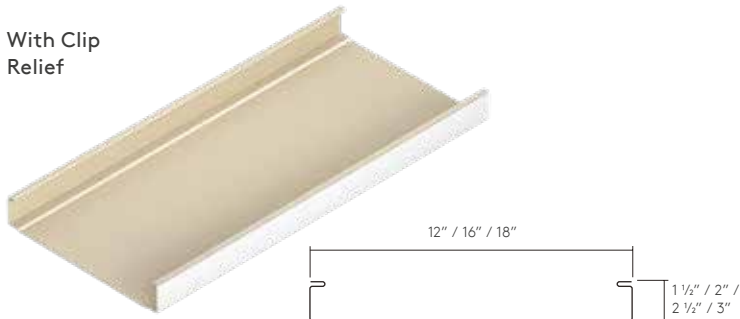
Please contact us to review the minimum radius suggested for your project

Symmetry Roof Series

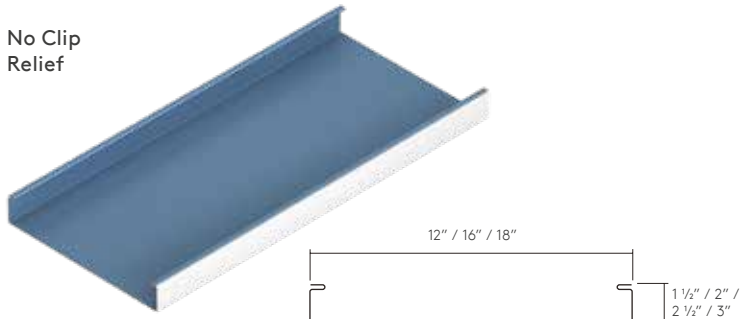
Seeking balance, strength and harmony for the consultant / design communities?
Or maybe you are looking for a solid versatile easy to replace panel that is quick to install, roll forms on-site, lengths to 300'.



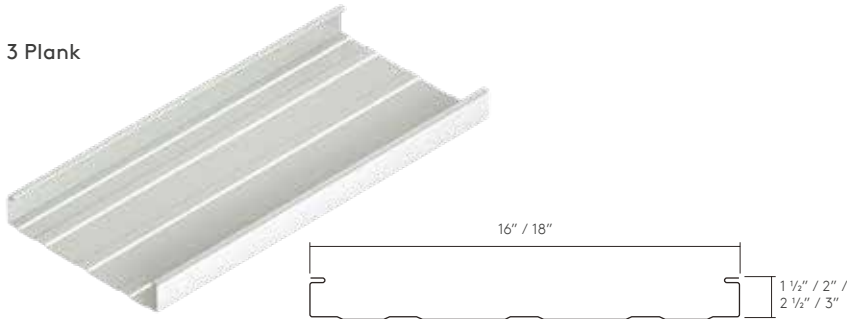
With Clip Relief



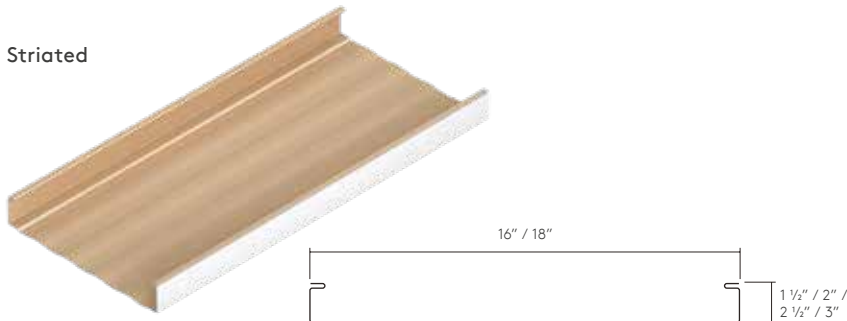
No Clip Relief



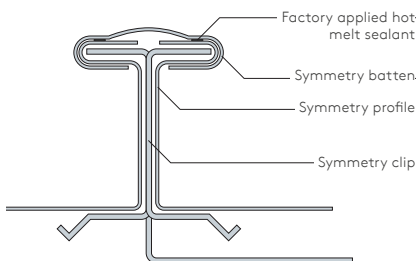
3 Plank



Striated



Symmetry Joint



The panel is symmetrical and does not lap over adjacent panels, it is joined together with a mechanically seamed cap (batten).

If one panel is damaged, simply undo the batten and remove that one panel without having to remove any others, allowing for center panel replacement.

Get all the benefits with Symmetry Roof Series.

- Weather resistant seam from eave to ridge
- Significant wind uplift capability
- Onsite roll-forming in lengths up to 300'
- Symmetry panels have the same interlocking clip leg on each side, so two directional install is possible
- Symmetry roof panel (1 1/2" seam height) can be used on roof slope as low as 1:12. Symmetry roof panel (2", 2 1/2" and 3" seam height) can be used on roof slopes as low as 1/2:12
- Panel replacement is easier and less expensive with a symmetrical panel
- Symmetry panel clips are designed to allow unlimited thermal movement
- The Symmetry panel needs to be fixed in one location along panel length and allowed to thermally move balance of panel length. Please see installation manual for various suggested locations
- Symmetrical roofs are ideal for roofs with complex geometry

Testing

Meet the demands of stringent codes with a high performance roofing system.

- ASTM E1592 Uplift Test
- UL 580, UL 1897 Uplift Test
- UL Class A Fire Rating
- ASTM E1680 Air Infiltration Test
- ASTM E1646 Water Infiltration Test
- ASTM E2140 Static Water Test

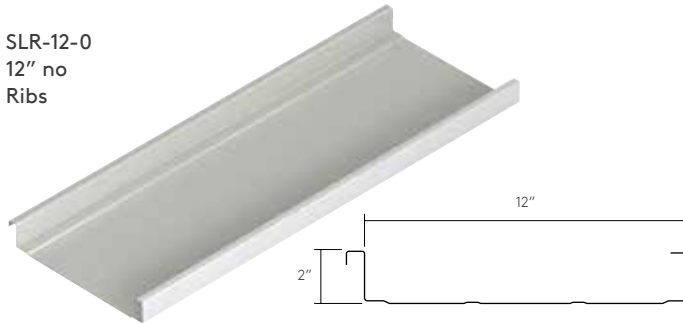
Images are representative and are not specific to any size.

SLR Roof Series

This profile is one of our oldest and most used structural roofing panels, designed for use with a variety of slopes and can wrap from roof to wall for dynamic impact.

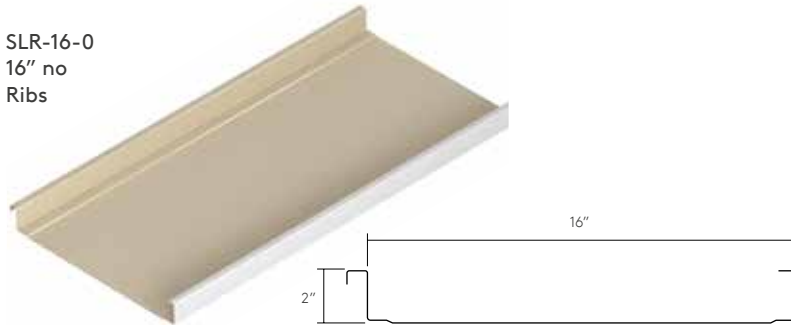


SLR-12-0
12" no
Ribs

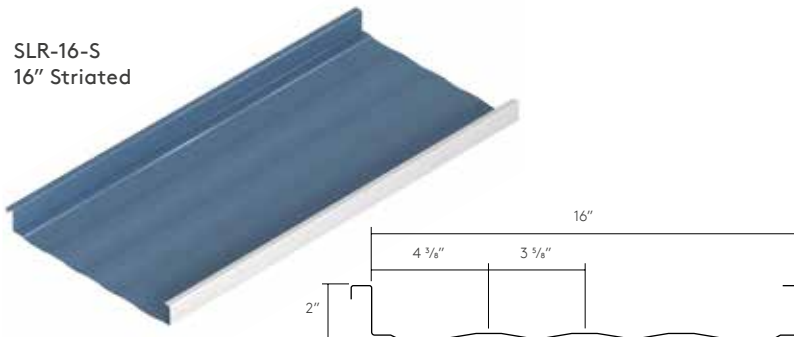


ROOF

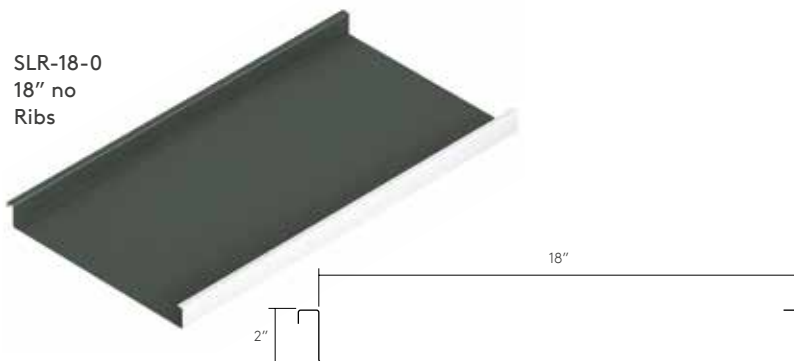
SLR-16-0
16" no
Ribs



SLR-16-S
16" Striated



SLR-18-0
18" no
Ribs



The SLR Profile is a seamed standing seam panel that can be applied to roof or wall and are available in a variety of profiles, gauges and widths.

It is available in a variety of widths, rib, striations, and embossing options with a tight seam joinery making it strong and durable and ideal for environmentally challenging areas.

The SLR panel also works well in curved applications, metal walls or a low slope roof. This flexible panel can offer solutions to many project needs.

- All PVDF finishes available
- Down to 1/2:12 minimum roof slope (double lock) and 3/4:12 minimum roof slope (single lock)
- Factory caulking is standard

Panel Depth:
2" (50.8mm)

Cover Width:
12" (305mm) – 18" (457mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

**Galvalume® / Zinalume®
Painted Steel Options:**
22 GA (.76mm) / 24 GA (.60mm)

Aluminum Options:
.040" (1mm) / .032" (0.813mm)

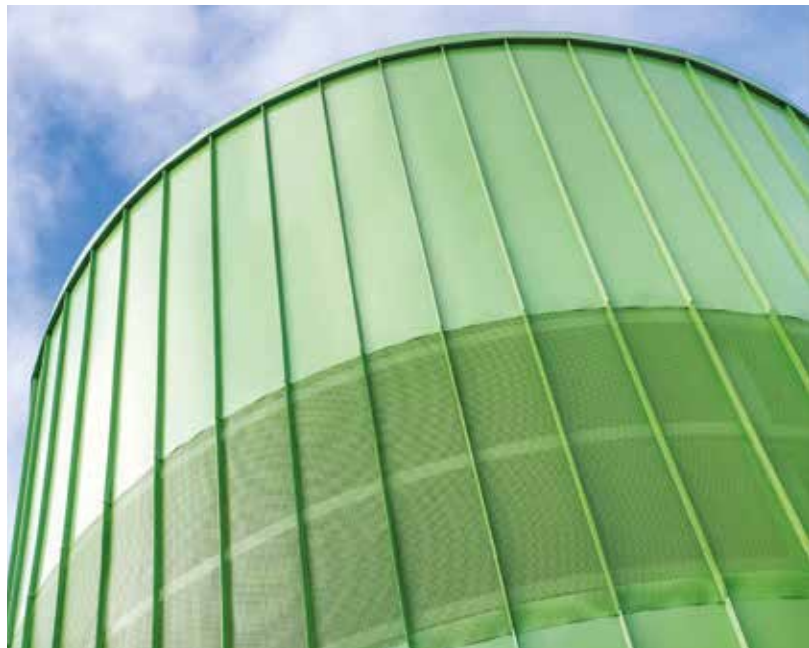
Special Notes:
Copper and zinc options available dependent on the profile / gauge.

Jobsite roll forming is available.

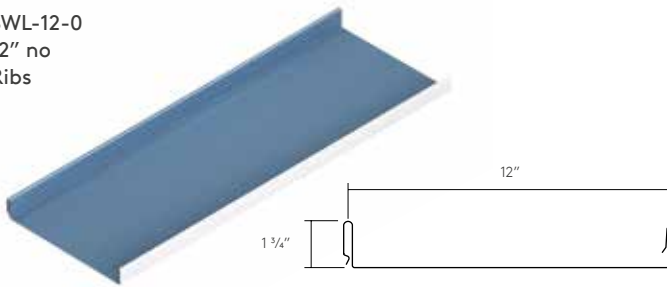
Images are representative and are just a sample of a large variety of options.

SWL Roof Series

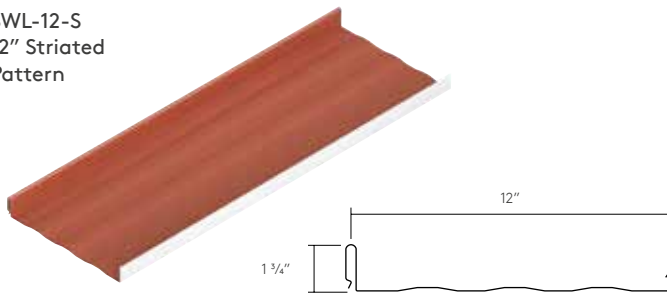
Architectural standing seam panels are available in a variety of profiles and widths. SWL is traditionally a non-structural roofing panel, designed for use with higher slopes.



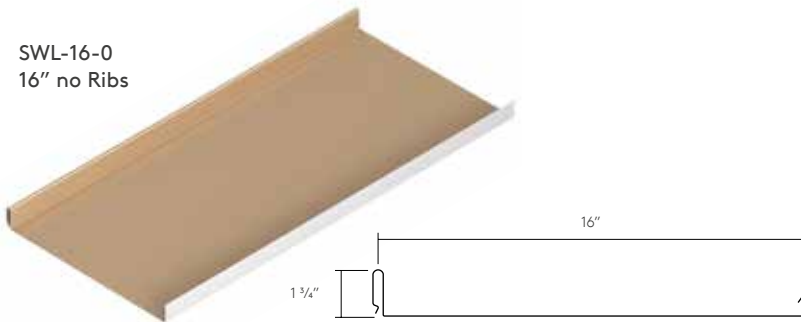
SWL-12-0
12" no
Ribs



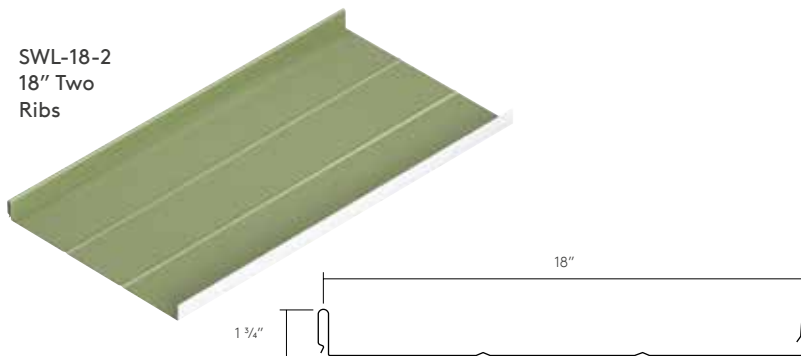
SWL-12-S
12" Striated
Pattern



SWL-16-0
16" no Ribs



SWL-18-2
18" Two
Ribs



This panel is geared for lighter gauge and has the advantages of being a quick install, and less labor due to the simple snap lock fastener system with no batten or seaming.

The SWL profile comes in a variety of widths, rib striations and embossing options.

The snap-lock joinery makes assembly easy and an optional batten can provide for a clean finished look.

Concealed clip and fastener design are ideal for new or retrofit projects.

Smooth surface, stucco embossed, striated and pencil beads are available. Consult for further information.

- All PVDF finishes available
- Down to 2:12 minimum roof slope (solid substrate)
- Factory caulking is standard

Panel Depth:

1 3/4" (44.45mm)

Cover Width:

12" (305mm) – 18" (457mm)

Lengths:

5' (1.52m) to 30' (9.14m) standard. Shorter and longer lengths available

Galvalume® / Zinalume®

Painted Steel Options:
22 GA (.76mm) / 24 GA (.60mm)

Aluminum Options:

.040" (1mm) / .032" (0.813mm)

Special Notes:

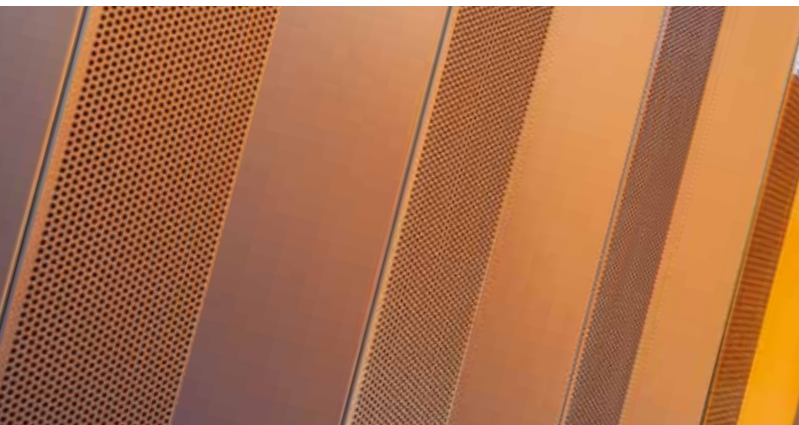
Copper and zinc options available dependent on the profile / gauge.

Jobsite roll forming is available.

Images are representative and are just a sample of a large variety of options.

Perforations

We are constantly seeing new and creative uses for Perforations. At Morin, we focus on more functional creative applications of standard processes, spot hole patterns and very ingenious uses.



We produce a wide variety of hole options, and patterns, spot patterns and custom repeat patterns that work with roll or break forming panels for specific applications.

Perforation Uses

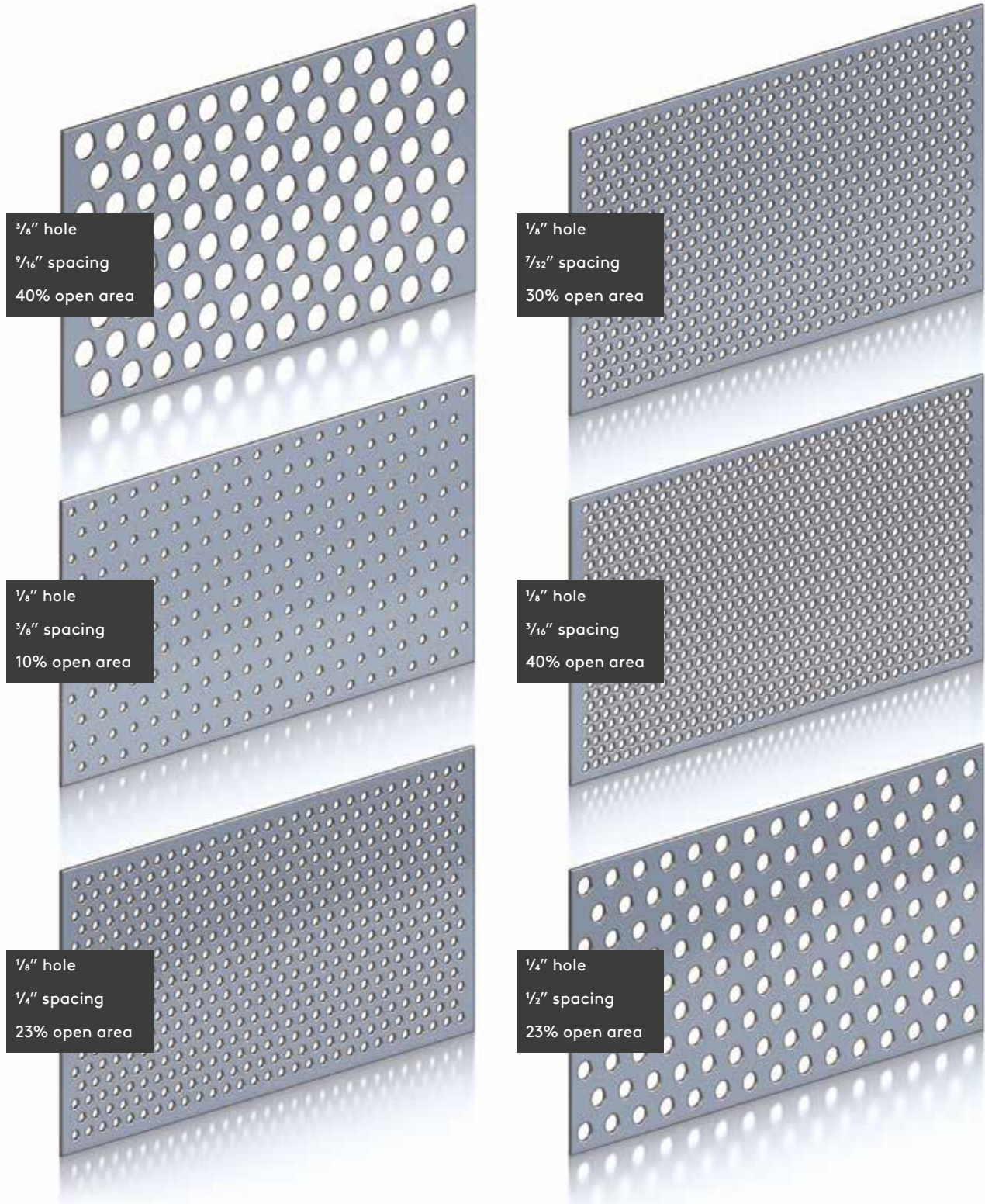
- Sun screen shade
- Noise reduction
- Security screening
- Airflow heating / cool
- Wind reduction
- Visual openness



Perforation Suggested Gauges

- Aluminum – .040" – .050"
- Stainless steel – 24 and 22 gauge
- Cor-Ten – 22 and 20 gauge
- Zinc – 1.0mm, 1.2mm
- Galvalume® painted – 24 and 22 gauge – interior

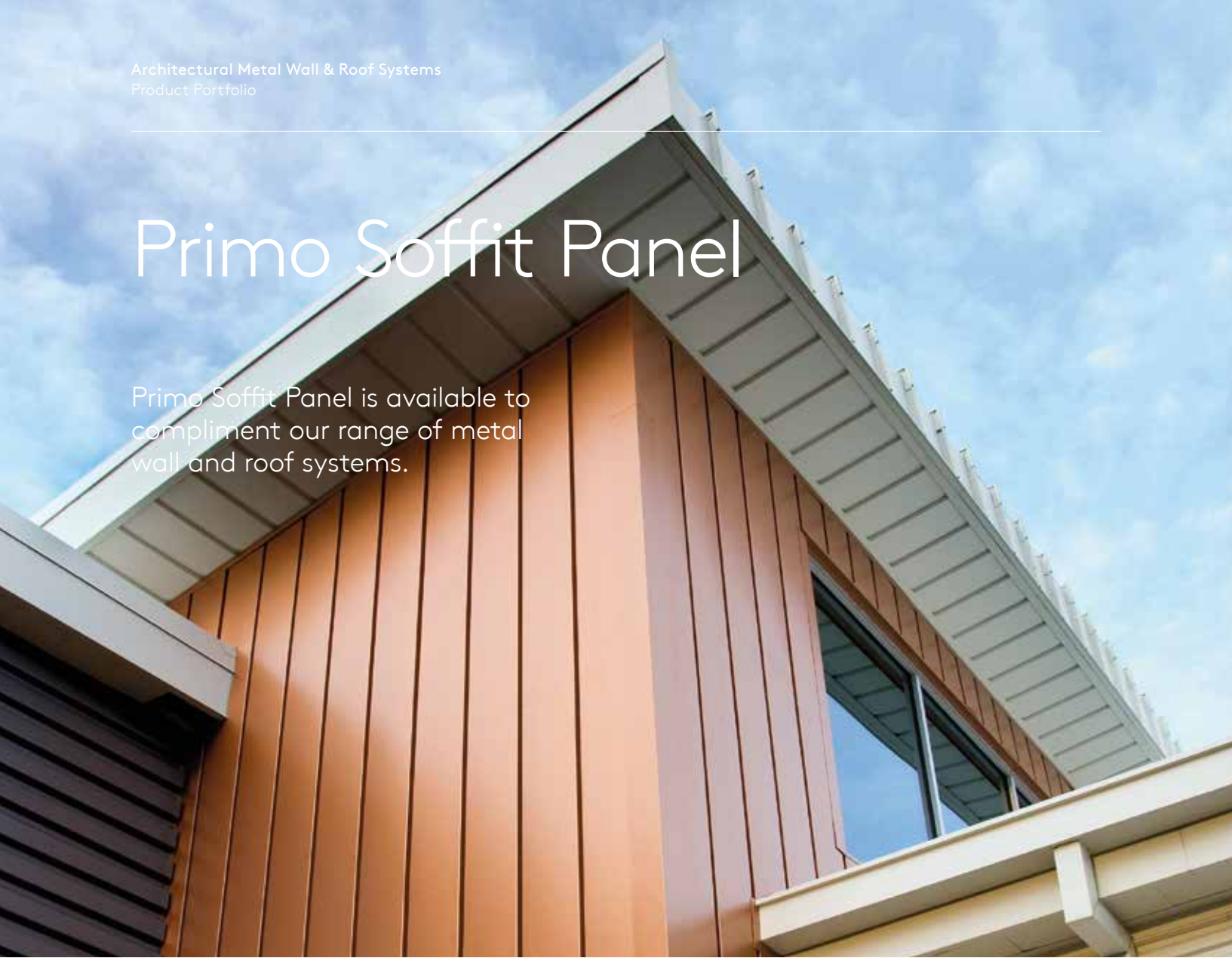
All Profiles are Available with These Standard Patterns



Contact us to review hole direction in relation to perforating process, and panel orientation.
Custom patterns and spot perforations available!

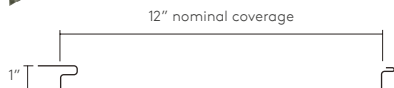
Primo Soffit Panel

Primo Soffit Panel is available to compliment our range of metal wall and roof systems.



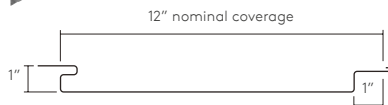
No Reveal

PS-12
(Smooth)

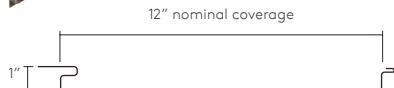
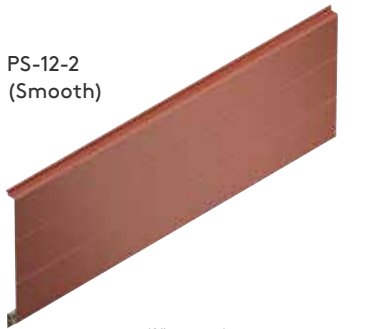


1" Reveal

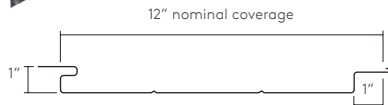
PSR-12
(Smooth)



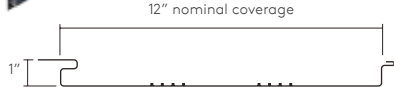
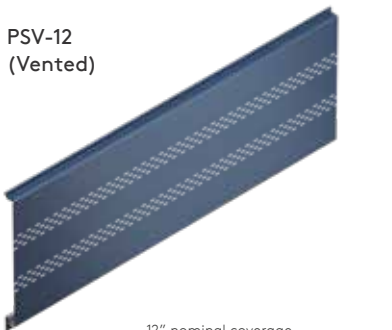
PS-12-2
(Smooth)



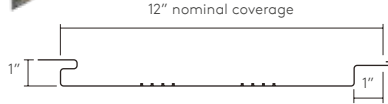
PSR-12-2
(Smooth)



PSV-12
(Vented)

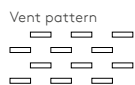


PSVR-12
(Vented)



Air flow specs:

5.376 square inches per linear foot.



Long Lasting Natural Zinc Soffit

Panel Depth:

1" (25mm).

Cover Width Options:

12" (305mm) no reveal or 1" reveal.

Lengths:

2' (0.61m) min. to 5' (1.52m) max.

Surface Options:

Smooth surface, 2 ribs, or vented.

Galvalume / Zincolume Painted

Steel Options:

22 GA* (0.80mm) (non-vented) /
24 GA (0.60mm).

Aluminum Options:

.032" (0.80mm) / .040" (1mm)
/ .050"* (1.27mm)

Zinc Options:

20 GA* (1.0mm) / 22 GA (0.80mm)

Color and Finish Options for Aluminum and Steel

- Standard (Fluoropon® PVDF)
- Premium Colors MICA (Fluoropon Classic® II PVDF)
- Premium Colors METALLIC (Fluoropon Classic® PVDF)
- Morin custom color matching services
- Other finishes available

Storage and Installation

- Deliver panel materials and components in the original, unopened, undamaged packaging with identification labels intact.
- Store soffit panel materials on dry, firm and clean surface.
- Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape.
- Install panels plumb, level, and true-to-line to dimensions and layout indicated on approved shop drawings.
- Remove protective film immediately as per Morin's standard directions.
- Cutting and fitting of panels shall be neat, square and true. Torch or abrasive cutting is prohibited.

Other metal options available, please call.

*Vent perforation not available on heavier gauges.

Color Options

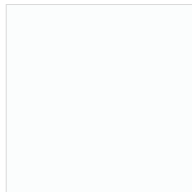
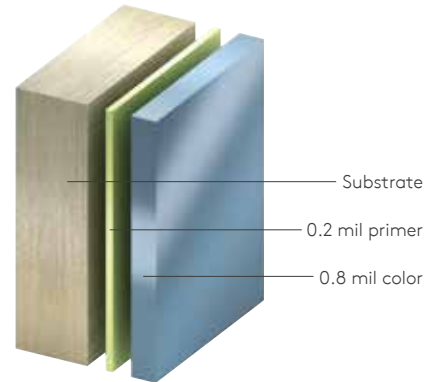
Our range of color options provide you with the most durable surfaces and longest warranties, with custom color matching available there are unlimited design options available.



Standard Colors

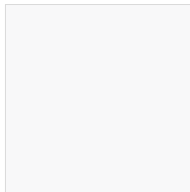
Fluropon® PVDF

Formulated with a proprietary resin, Fluropon® is a premium fluoropolymer coating. Factory applied and baked on, it provides excellent adhesion and flexibility properties with aluminum, HDG steel or Galvalume® components.



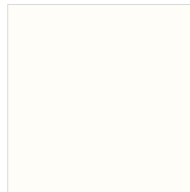
Regal White

SR:0.70 E:0.86 SRI:85



Ascot White

SR:0.69 E:0.85 SRI:83



Bone White

SR:0.69 E:0.84 SRI:83



Sandstone

SR:0.61 E:0.85 SRI:72



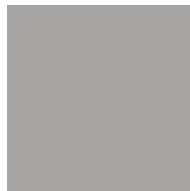
Dove Gray

SR:0.47 E:0.86 SRI:53



Zinc Gray

SR:0.35 E:0.86 SRI:37



Chromium Gray

SR:0.56 E:0.86 SRI:65



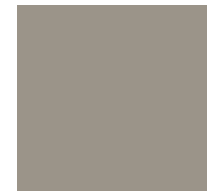
Surrey Beige

SR:0.48 E:0.86 SRI:54



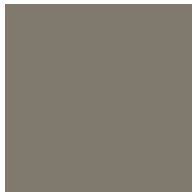
Sierra Tan

SR:0.38 E:0.85 SRI:40



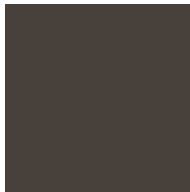
Parchment

SR:0.53 E:0.85 SRI:61



Antique Bronze

SR:0.43 E:0.86 SRI:48



Spartan Bronze

SR:0.31 E:0.85 SRI:31



Dark Bronze

SR:0.27 E:0.85 SRI:26



Redwood

SR:0.38 E:0.86 SRI:41



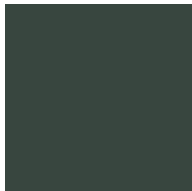
Colonial Red

SR:0.32 E:0.86 SRI:33



Patina Green

SR:0.41 E:0.84 SRI:44



Evergreen

SR:0.26 E:0.85 SRI:24



Slate Blue

SR:0.28 E:0.85 SRI:27



Bristol Black

SR:0.26 E:0.86 SRI:25



Blue Gray

SR:0.27 E:0.85 SRI:26



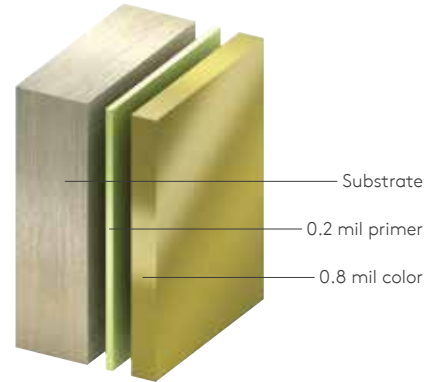
Regal Blue

SR:0.26 E:0.85 SRI:24

Premium Colors – Mica

Fluropon® Classic II PVDF

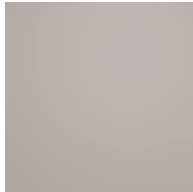
2-Coat Fluropon® Classic II PVDF is a premium fluoropolymer coating containing 70% proprietary resin that achieves a pearlescent appearance. This two coat system is a cost-effective alternative to metallic systems requiring clear coat.



Silversmith
SR:0.53 E:0.79 SRI:59



Champagne Bronze
SR:0.44 E:0.78 SRI:46



Champagne Pearl
SR:0.48 E:0.81 SRI:53



Weathered Zinc
SR:0.33 E:0.84 SRI:33

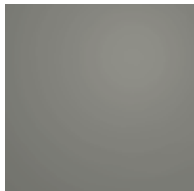
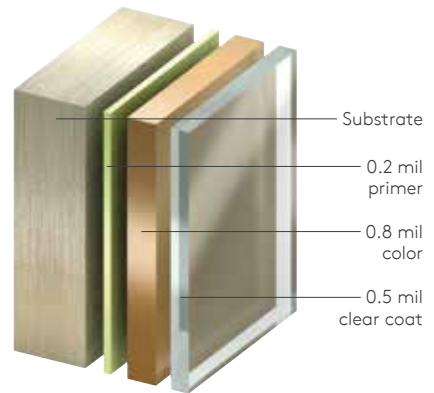


Copper Penny
SR:0.48 E:0.84 SRI:54

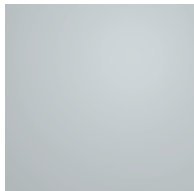
Premium Colors – Metallic

Fluropon® Classic PVDF

3-Coat Fluropon® Classic PVDF is a premium fluoropolymer coating containing 70% proprietary resin and a special metallic effect. Due to its outstanding color retention and resistance to ultraviolet radiation, it is the preferred choice among architects and metal building manufacturers.



Medium Gray
SR:0.36 E:0.85 SRI:38



Seafoam Green
SR:0.49 E:0.87 SRI:56



Champagne Gold
SR:0.51 E:0.85 SRI:58



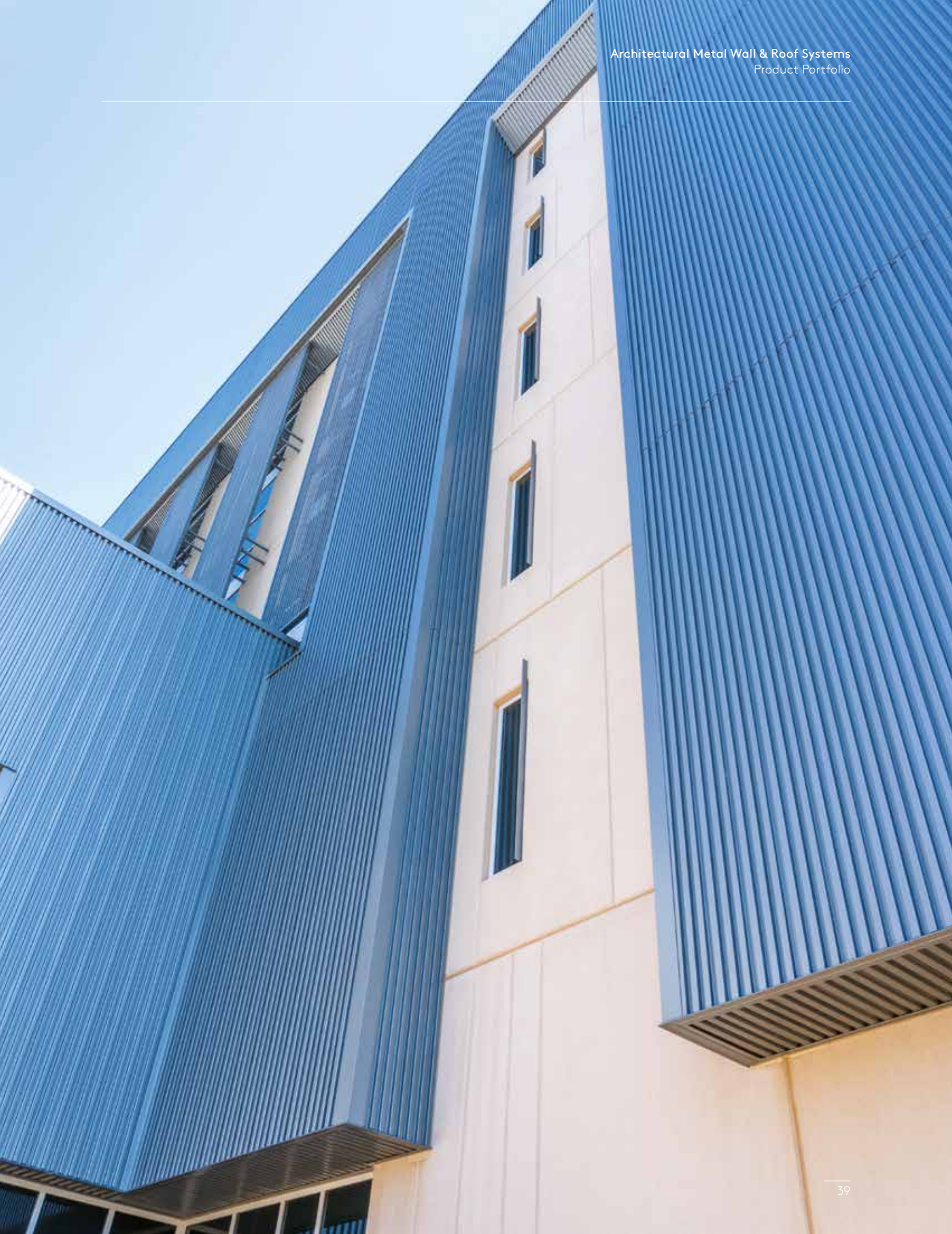
Bright Silver
SR:0.57 E:0.81 SRI:65

Custom Color Matching Available

Morin makes it easy to add protection and visual distinction to your next project. Our state-of-the-art color and paint facility can achieve virtually any tint, shade or finish to your specifications, quickly and accurately. To get started, contact our experienced sales representatives today for details.



Colors shown here are for preliminary selection only. Contact Morin for color chart and/or physical painted metal samples before final selection. Because of the differences in the paint formulation and application, coil coated metal panels in mica and metallic colors will differ slightly in appearance from spray applied aluminum extrusions.



Contact Details

USA

HQ / East

685 Middle Street | Bristol
CT 06010

T: 1-800-640-9501

West

10707 Commerce Way | Fontana
CA 92337

T: 1-800-700-6140

South

1975 Eidson Drive | DeLand
FL 32724

T: 1-800-640-9501

www.morincorp.com



For the product offering in other markets please contact your local sales representative or visit www.morincorp.com

Care has been taken to ensure that the contents of this publication are accurate, but Morin Corporation does not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Morin Corporation accepts no liability in respect thereof.

Morin[®]
A Kingspan Group Company

L Series



About the product

The L20, L18, and L16 Series flush doors are designed to meet the architectural requirements for full flush doors. The L14 Series flush doors are designed to meet the architectural requirements for maximum duty full flush doors. Refer to the Architectural section for specifications and the selection and usage guide of the appropriate door constructions.

This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the laminate core. The continuous bonding of core to steel face sheets provides an attractive, flat door, free of face welding marks. Tests have proven that the L Series door has high resistance to impact damage, low thermal conductivity and high STC ratings.

To meet application, specification and performance requirements, the L Series door offers a wide range of specifiable options including sizes, glass light designs and hardware (mechanical, pneumatic, electrical) preparations.

L Series doors are 1 3/4" (45 mm) thick.

Installation

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2012 (formerly SDI 105) *Recommended Erection Instructions for Steel Frames and HMMA 840s*.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The *Authority Having Jurisdiction* is the final authority on issues related to the installation and use of installed Fire Rated Doors.

Features and benefits

Steelcraft's L Series doors offer the following standard unique features, which enhance long term performance and durability:

1. **Core Systems** that enhance the structural integrity of the door:
 - **Honeycomb (standard):** 1" (25 mm) cell kraft honeycomb configuration that increases structural integrity while reducing overall weight
 - **Polystyrene (optional):** enhanced thermal performance
 - **Polyurethane (optional):** extreme thermal performance
2. **Full Height, Epoxy Filled Mechanical Interlock Edges** provide structural support and stability the full height of the door edges. Available edge options:
 - **Visible Edge Seam (standard):** full height, epoxy filled mechanical Interlocked edges
 - **Filled Edge Seam (optional add to standard):** seam filled with structural adhesive and dressed smooth. Includes tack welds above and below edge cutouts as required for doors over 7'2" rated over 20 min
 - **Welded Edge Seam (optional add to standard):** intermittently welded using 1" long welds, then seam filled with structural adhesive and dressed smooth. Option available on L18, L16 and L14 doors.
3. **Universal Hinge Preparations** (patented) allow for easy field conversion from standard weight .134" (3.3 mm) hinges to heavy weight .180" (4.7 mm) hinges.
4. **14 Gauge [0.067" (1.7 mm)] Inverted Top and Bottom Channels** provide stability and protection for the top and bottom edges from abuse.
5. **Beveled Hinge and Lock Edges** allow for tighter installation tolerances, ensure easier operation and eliminate binding and sticking.
6. **Recessed Dezigner™ Glass Trim** provides a clean, neat and flush finish with the door surface.
7. **Factory Applied Baked-On Rust Inhibiting Primer** paint in accordance with ANSI A250.10-2011.

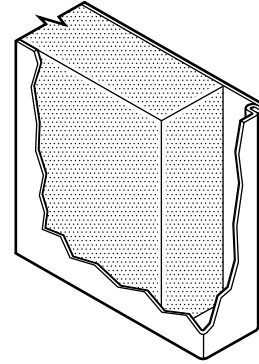
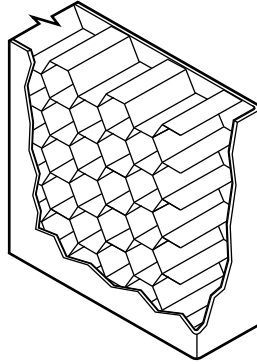
Specification compliance

1. Door construction for Steelcraft L Series full flush doors meets the requirements of ANSI A250.8-2017 (SDI 100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003 (R2009). Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

Fire ratings

L Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UL-10C).

Rigid Honeycomb



Standard Laminated Honeycomb Core

- 1" (25 mm) cell, Kraft honeycomb
- Honeycomb surfaces sanded for maximum adhesion
- Phenol formaldehyde free
- Laminated to both face sheets with contact adhesive
- Assembled door is run through high pressure pinch rollers, achieving ultimate bond

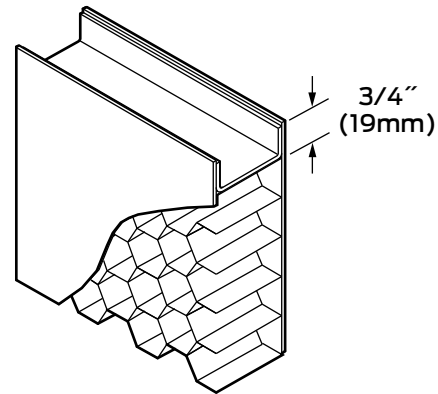
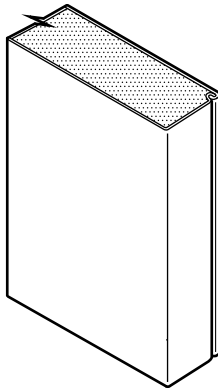
Optional Polystyrene Core

- 1 pound (453.6g) per ft³ density slab
- Laminated to both face sheets with contact adhesive
- Labeled applications

Optional Polyurethane Core

- 1.8 pound (816.5g) per ft³ density slab
- Laminated to both face sheets with contact adhesive
- Non-Labeled applications

Optional cores are polystyrene or polyurethane



Standard Premium Edge Construction

- Beveled hinge & lock edges
- Full height mechanical interlock with epoxy adhesive
- Visible edge seam standard
- Seamless edge optional

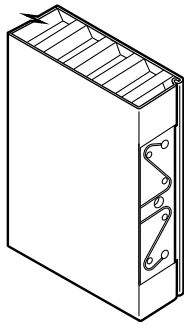
Standard Rigid 14 Gauge End Channel Construction

- 14 gauge inverted galvanized top & bottom channels
- Projection welded to both face sheets
- For optional caps, see "[Weather seals](#)" on page 151.

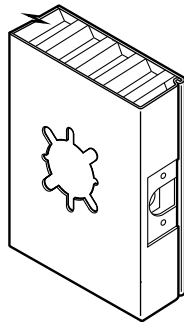
Door application and usage			
Series	Steel Thickness	Opening	Usage Frequency
L20	20 Ga (0.8 mm)	Interior - Cold Rolled Steel	Standard Duty
L20	20 Ga (0.8 mm)	Exterior - Galvanized Steel	Light Commercial applications with minimal use and abuse
L18	18 Ga (1.0 mm)	Interior - Cold Rolled Steel	Heavy Duty
L18	18 Ga (1.0 mm)	Exterior - Galvanized Steel	Heavy Commercial & Institutional applications with high use
L16	16 Ga (1.3 mm)	Interior - Cold Rolled Steel	Extra Heavy Duty
L16	16 Ga (1.3 mm)	Exterior - Galvanized Steel	Extra Heavy Commercial applications with potential of very high use
L14	14 Ga (1.7 mm)	Interior - Cold Rolled Steel	Maximum Duty
L14	14 Ga (1.7 mm)	Exterior - Galvanized Steel	Extra Heavy Commercial applications with extremely high use

Standard hardware preparations

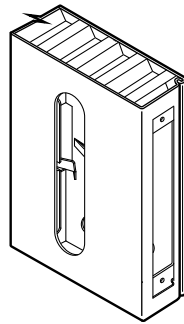
Typical hardware applications shown. Refer to "Hardware" section for more details.



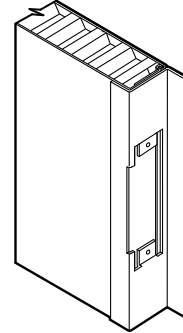
Universal Mortise Hinge Prep
7 Gauge Universal hinge reinforcement



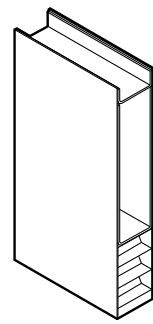
61L Lock



86 Lock



Inactive Leaf ASA Strike Prep with Astragal attached



Optional 14 Gauge Closer Reinforcement

Standard: mortised and reinforced for:

- Patented Universal hinge preparations allow for easy field conversion from standard 4 1/2" (114 mm) x .134" (3.3 mm) standard weight hinges to 4 1/2" (114 mm) x .180" (4.7 mm) heavy weight hinges. Optional hinge preparation for 5" (127 mm) x .146" (3.7 mm) standard weight hinges or for 5" (127 mm) x .190" (4.8 mm) heavy weight hinges is also available.
- A multitude of standard lock preparations are available. The cylindrical 161, 61L and mortise 86 lock preps are the most commonly used active leaf preparations. The 4 7/8" (124 mm) strike prep is the most commonly used inactive leaf preparation.
- Optional reinforcements for surface and concealed Closers are available.
- Special hardware applications are available.

Door Sizes and ANSI A250.8 Conversions

Steelcraft product selection for L Series doors has been matched to ANSI/SDI Level and Model designations.

- In accordance with ANSI A250.8-2017 (SDI 100), core material is not specific to the level or model designations. Core material selection is specified based on preference and application.
- Recommended minimum frame gauge also applies to the frequency of operation of the opening.

Series	ANSI A250.8 - SDI 100			Edge Construction	Edge Maximum Sizes		Recommended Gauge of Frame
	Level	Model	Description		Single	Pair	
Level 1: Light Commercial							
L20	1	1	Full Flush	Visible	3'-0" x 8'-0"	6'-0" x 8'-0"	18 Gauge [0.042" (1.0 mm)]
LF20		2	Seamless	Filled	914 mm x 2438 mm	1829 mm x 2438 mm	16 Gauge [0.053" (1.3 mm)]
Level 2: Heavy Duty Commercial & Institutional							
L18	2	1	Full Flush	Visible	4'-0" x 10'-0" 1219 mm x 3048 mm	8'-0" x 10'-0" 2438 mm x 3048 mm	16 Gauge [0.053" (1.3 mm)]
LF18		2	Seamless	Filled			
LW18		2	Seamless	Welded			
Level 3: Extra Heavy Duty Commercial & Institutional							
L16	3	1	Full Flush	Visible	4'-0" x 10'-0" 1219 mm x 3048 mm	8'-0" x 10'-0" 2438 mm x 3048 mm	16 Gauge [0.053" (1.3 mm)]
LF16		2	Seamless	Filled			
LW16		2	Seamless	Welded			
Level 4: Maximum Duty Commercial & Institutional							
L14	4	1	Full Flush	Visible	4'-0" x 10'-0" 1219 mm x 3048 mm	8'-0" x 10'-0" 2438 mm x 3048 mm	14 Gauge [0.067" (1.7 mm)]
LF14		2	Seamless	Filled			
LW14		2	Seamless	Welded			

Door edge construction

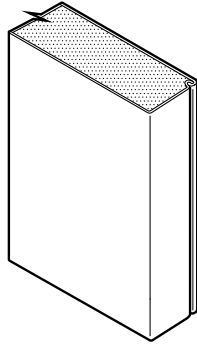
Optional Edge Seams available in the L Series doors:

- **L:** Standard feature includes visible edge seams with full height interlocked edges.
- **LF:** the mechanical edge seam is filled and dressed smooth prior to applying the factory primer.
- **LW:** the mechanical edge seam is welded and dressed smooth prior to applying the factory primer.

Standard visible edge seam

L Series visible seam features

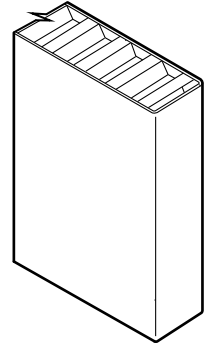
- Full height mechanical interlock
- Interlock filled with epoxy adhesive
- Visible edge seam



Optional seamless edge

LF Series Seam Filled Features

- Standard Visible Edge Seam is tack welded above and below edge cutouts as required for doors over 7'2" rated over 20 min
- Edge Seam is then filled with structural adhesive and dressed smooth



LW Series Seam Welded Features

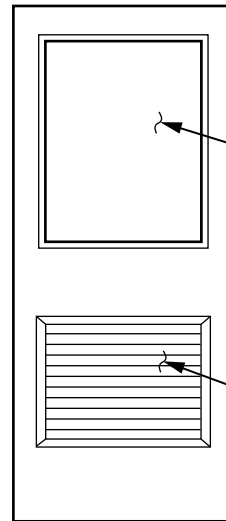
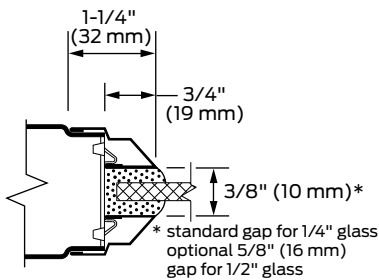
- Standard Visible Edge Seam is intermittently welded using 1" long welds
- Edge Seam is then filled with structural adhesive and dressed smooth
- No visible edge seam

Glass light options

(Refer to the Lights and Louvers section for further details and options)

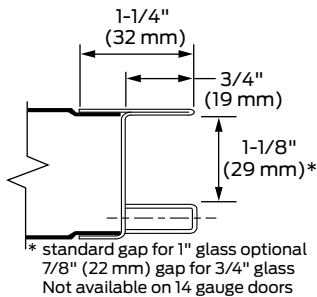
Designer® Trim

- Standard for 1/4" Thick Glass
- Optional for 1/2" Thick Glass



Flush Mounted Steel Trim

- For 1" Thick Glass



Divider Muntins Are Not Available

Insulation factors

General information

Exterior doors are often used to block the transmission of temperature from one side to the other. Energy lost through a door opening is the result of both:

- **Thermal transmission**, through the door assembly, is stated as either the U-Factor or the R-Factor. These factors are covered on this page.
- **Air infiltration**, around the perimeter of the door, is stated as air leakage in CFM. This rating is covered on Page 2 of this sheet.

Thermal tests

Doors are tested in accordance with ASTM C1363 and SDI 113. The door assembly (or door only) is subjected to heat with the amount of loss measured.

Honeycomb core doors provide insulation through the small air pockets created by the hexagonal cells. The insulation of the honeycomb core is far better than a solid core wood door, insulated glass and concrete block walls. Polystyrene and polyurethane core doors are recommended where extreme temperature variations are prevalent.

Thermal factors

The following terms are used to describe thermal transmission through building products:

- **U-Value:** Overall co-efficient of heat transmission passage through a built-up panel section. Technically, it is heat transmission in BTU per hour per square foot per degree Fahrenheit of temperature difference from air to air for a complete panel sectional (the lower the U-Value, the better the insulation).
- **R-Value:** Thermal resistance is a measure of ability to retard heat flow. **R** is an expression of the total resistance to heat flow through a complete panel section or construction assembly. **R** represents a value of the thermal resistance, per hour per square foot of a typical panel section. **R** is the numerical reciprocal of the **U-Value** (the higher the **R**, the higher the insulating value).
- **K-Thermal:** Conductivity (**K**) is the amount of heat that passes through a homogenous material one inch thick and one square foot in area per hour. Values of **K** are expressed in BTU per hour (the lower the **K**, the higher the insulating value). The **K** unit is for a single component material one inch thick and one square foot in area. Therefore, it does not apply to a 1-3/4" thick door panel consisting of several materials. (Conductivity is not a method of measuring heat transmission through built up panels.)

Thermal performance test results per SDI 113-13			
Door series	Core	Tests per ASTM C1363 U-Value	Tests per ASTM C1363 R-Value
B18 Series	Steel Stiffeners	0.50	2.01
B16 Series	Steel Stiffeners	0.53	1.89
L18 Series	Honeycomb	0.56	1.80
L18 Series	Polystyrene	0.38	2.64
L18 Series	Polyurethane	0.36	2.81
L16 Series	Honeycomb	0.57	1.74
L16 Series	Polystyrene	0.39	2.54
L16 Series	Polyurethane	0.38	2.67
CE18 Series	Polystyrene	0.41	2.44
H16 Series	Honeycomb	0.60	1.67
H16 Series	Polystyrene	0.42	2.36
A14 Series	Honeycomb	0.78	1.28

Note: Corrected to ASHRAE winter design with 15 mph wind outside, still air inside.

Historical statement

Historically, SDI 113 required thermal transmission testing in accordance with ASTM C236-89(1993) "Standard Test Method for Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box". In 2001 ASTM C236-89(1993) was withdrawn as an ASTM standard. SDI 113-13 was subsequently revised to require testing in accordance with ASTM C1363-05 "Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus". This change in test methods results in significant changes in performance values which are not comparable between the current standard ASTM C1363 and the old standard ASTM C236. Architectural specifications must be carefully reviewed for compliance with the appropriate standard.

SECTION 08 11 13

HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Standard steel doors and frames.
 - 2. Fire rated steel doors and frames.

1.02 RELATED SECTIONS

- A. Wood Doors: Section 08 14 00.
- B. Door Hardware: Section 08 71 10.

1.03 QUALITY ASSURANCE

- A. Provide metal doors and frames fabricated by one manufacturer to ensure uniformity in appearance and construction.
- B. Reference Standards: Wherever the following abbreviations are used herein, they shall refer to the corresponding standard.
 - 1. ANSI: American National Standards Institute.
 - 2. ASTM: American Society for Testing and Materials.
 - 3. SDI: Steel Door Institute.
 - 4. DHI: Door and Hardware Institute.
- C. Fire rated doors and frames: Provide units that comply with NFPA 80, are identical to door and frame assemblies tested for fire-test-response characteristics per ASTM E152, and are labeled and tested by Factory Mutual (FM), Underwriters Laboratories (UL), or other National Recognized testing agency. Units shall bear testing agency labels.
 - 1. Provide UL labels permanently fastened on each door and frame which is within the size limitations established by NFPA and UL for labeling.
 - 2. Provide anchors for UL labeled frames required by the authority having jurisdiction.

1.04 SUBMITTALS

- A. Submit manufacturer's product data and installation instructions for each type of standard metal door and frame required.

- B. Submit shop drawings. Identify doors and frames in accordance with drawing door schedule. Indicate:
 - 1. Elevations of each door design.
 - 2. Hardware locations, installation methods and hardware reinforcements.
 - 3. Dimensions and shapes of materials, anchorage and fastening methods.
 - 4. Door frame types, profile of molding and details.
 - 5. Wall opening construction and connection to other work.
- C. Certificates documenting:
 - 1. Fire testing: Fire-rated units have been successfully tested in accordance with Paragraph 1.03C.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver metal doors and frames cartoned or crated for protection during transit and job delivery. Provide sealed wrapping for factory.
- B. Store doors and frames inside the building in a dry, well-ventilated area. Protect from damage, wetting and deterioration in accordance with manufacturer's recommendations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: STEELCRAFT MFG. CO; CECO CORP.; PIONEER INDUSTRIES; REPUBLIC BUILDERS PRODUCTS CORP.; CURRIES; METAL PRODUCTS INC (MPI).

2.02 MATERIALS AND COMPONENTS

- A. Materials
 - 1. Metallic-Coated Steel: Commercial quality, hot dipped, A-60 galvanized steel in accordance with ASTM A653, "Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot-Dip Process".
 - 2. Cold-Rolled Steel: Commercial Steel in accordance with ASTM A1008, "Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High Strength Low-Alloy and High Strength with Improved Formability"; Type B; suitable for exposed applications.
 - 3. Hot-Rolled Steel Sheet: Commercial Steel in accordance with ASTM A1011, "Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High Strength Low-Alloy with Improved Formability, and Ultra-High Strength"; Type B; free of scale, pitting, or surface defects; pickled and oiled.

B Comply with SDI 100 material and fabrication recommendations and as specified.

C. Standard Metal Doors

1. Provide flush seamless type doors with seamless faces and edges, 1-3/4" thick, internally reinforced. Top and bottom closed flush.
 - a. Provide glass lites where indicated.
2. Exterior Doors: Provide doors complying with requirements of ANSI 250.8 for Level 3 (extra heavy duty) and Model 2 (seamless design) and ANSI A250.4 for physical endurance Level A.
 - a. Fabricated from metallic-coated (galvanized) steel face sheets, mill phosphatized
 - b. Core: Minimum 1-1/2 lb. density polyurethane or polyisocyanurate; thermal-resistance value (R-value) of not less than 2.1 deg F x h x sq. ft./Btu when tested according to ASTM C 1363.
 - c. Tops and bottoms closed with flush galvanized steel caps.
3. Interior Doors: Provide doors complying with requirements of ANSI 250.8 for Level 3 (extra heavy duty) and Model 2 (seamless design) and ANSI A250.4 for physical endurance Level A
 - a. Fabricated from cold rolled steel; stretcher-leveled standard flatness.
 - b. Kraft resin impregnated honeycomb or polystyrene slab core bonded to door face sheets with thermal adhesive.
4. Hardware Reinforcements: Meet or exceed ANSI/SDI A250.6 requirements.
5. Edge Profile: 1/8" bevel in 2" core on hinge and lock edges.
6. Astragals for pairs of doors: Manufacturer's standard for labeled and non-labeled openings. Factory prepare for hardware as scheduled in Section 08 71 10. Mount astragal to overlap on key side of doors.
7. Louvers: Inserted fixed type, minimum free area of 38%.

D. Standard Metal Frames

1. Interior Frames: Fabricated from either commercial grade cold-rolled steel conforming to ASTM A1008 or commercial grade hot-rolled and pickled steel conforming to ASTM A1011, minimum 0.053" thick. Set-up and welded type, all miters clean cut, reinforced, fully seam welded with exposed welds ground smooth.
2. Exterior Frames: Fabricated from commercial grade metallic –coated (galvanized) steel conforming to ASTM A653, minimum 0.053" thick, and shall have an A-60 zinc coating (0.30 ounces per square foot per side). Set-up and welded type, all miters clean cut, reinforced, fully seam welded with exposed welds ground smooth.
 - a. Back prime frames with asphaltic emulsion.
3. Profile: Double rabbet, jamb face and depth as indicated.
4. Hardware Reinforcements: Meet SDI 107 requirements.
5. Transoms and Sidelites: Provide for loose glazing stops to be secured with countersunk screws.

- a. Provide $\frac{3}{4}$ " stops for sidelites and transoms where the individual glass areas for fire rated openings exceeds the allowable area for $\frac{5}{8}$ " stops.

D. Fire Doors and Frames

1. Comply with Fire-Rated Door Requirements specified herein before (Paragraph 1.03C).
2. Agency: Underwriter's Laboratories.
3. Classification: As indicated.
4. Conform to requirements of Standard Metal Door and Frames specified herein.

2.03 FABRICATION

- A. Reinforce and prepare doors and frames to receive hardware. Fit for hardware at the factory to template. Do all necessary cutting, drilling and tapping. Comply with applicable requirements of ANSI A115 series specifications for door and frame preparation for hardware.
- B. Provide surfaces smooth and free from defects, warp or buckle with arrises straight and sharp.
- C. Reinforce doors and frames to receive surface applied hardware. Drilling and tapping for surface applied finish hardware may be done at project site.
- D. Locate finish hardware as shown on drawings or, if not shown, in accordance with DHI "Recommended Locations for Builder's Hardware."
- E. Door and Frame Fabrication
 1. Provide cutouts for mortised hardware, accurately located and made to fit hardware.
 2. Punch frames for door silencers, three on strike side for single doors. Factory install plastic caps. Stick-on silencers are not acceptable.
 3. Exterior and Interior Frames: Provide minimum three anchors of suitable design for each jamb. Provide galvanized anchors for units built into exterior walls.
 4. Floor Anchors: Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.
 5. Conduit for Door Frames
 - a. Shop install $\frac{3}{4}$ " electrical conduit within hollow metal door frame where indicated or where required for electric strikes or similar type electrical frame mounted hardware.
 - b. Route conduit in frame in the most direct and simple manner so that pulling wire can be performed with a minimum of bends and obstructions. Route conduit to avoid damage to conduit during field installation of frame and operations to grout frame solid.
 - c. Connect conduit to electrical junction box or conduit embedded in

building structure by means of a threaded coupling. The termination point of the conduit within the frame shall be free and have enough slack to make final connection to embedded device.

F. Shop Painting

1. Clean, bonderize or chemically treat and paint exposed surfaces of steel door and frame units, including galvanized surfaces.
2. Clean steel surfaces of mill scale, rust oil, grease, dirt and other foreign materials before application of paint. Sand free of imperfections.
3. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ASNI A224.1. Provide a smooth, uniformly finished surface ready to receive finish paint.

PART 3 EXECUTION

3.01 INSPECTION

- A. Examine substrates, rough openings and installation conditions. Do not proceed with metal door and frame work until unsatisfactory conditions have been corrected.
- B. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

3.02 INSTALLATION

- A. Install metal doors and frames in accordance with manufacturer's instructions and recommendations.
- B. Placing Frames
 1. General
 - a. Comply with ANSI/SDI A250.11 (SDI 105) "Recommended Erection Instructions for Steel Frames."
 - b. Erect frames in proper position to receive partition work before construction of enclosing walls. Set frames accurately in position, plumbed, aligned with heads level and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders.
 - c. Grout frames as indicated on the drawings. Coordinate grout placement with adjoining materials and door hardware.
 2. At Masonry Construction: Locate wall anchors at 16" on center. Building-in of anchors and grouting of frames is specified in Section 04 00 00.
 3. Fire-Rated Frames: In accordance with NFPA standard No. 80 and SDI 118.
 4. Metal Stud Partitions: Install at least 3 wall anchors per jamb at hinge and strike levels. Attach wall anchors to studs with tapping screws.

C. Door Installation

1. Install doors plumb and in true alignment in prepared openings. Fit metal doors accurately in frames, within clearances specified in ANSI/SDI A250.8 (SDI100).
2. Install fire-rated doors with clearances as specified in NFPA Standard No. 80 and SDI 118.

- D. Immediately after erection, sand smooth rusted or damaged areas of door and frame coat and apply touch-up prime coat of compatible air-drying primer.

3.03 FIELD QUALITY CONTROL

A. Final Adjustment: Provide final adjustment as follows:

1. Door Contact with Silencers: Doors shall strike a minimum of two (2) silencers without binding lock or latch bolts in strike plate.
2. Head, Strike and Hinge Jamb Clearance: 1/8".
3. Meeting Edge Clearance, Pairs of Doors: +1/16"
4. Bolts and Screws: Leave tight and firmly seated.

END OF SECTION

ROLLING COUNTER **DOOR SYSTEMS**



PRODUCT LINE

METAL CURTAIN

INTEGRAL FRAME

WOOD CURTAIN

MODELS

650/651/652

655/657/658

665



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



General features and benefits

A rolling counter door for any environment

- Choice of aluminum, steel or stainless steel offers durable, attractive and versatile solutions for retail, commercial and industrial applications for openings up to 20' wide and 9' high (6096 mm and 2743 mm)
- Integral frame and sill counter doors in sizes up to 12'5" wide and 6'5" high (3785 mm and 1956 mm) provide the convenience of a factory-assembled unit and an attractive finished look
- Wood curtains in Douglas fir, red oak, white oak, birch, or exotic species for openings to 12' wide and 8' high (3658 mm and 2438 mm) complement interior design features

Options provide design flexibility and simplify operation

- Choice of curtain materials and a variety of finish options for enhanced design flexibility
- Motor operation option and an array of operator controls simplify door operation (not available on integral frame and sill counter doors)

Built to last

- Top-quality materials, excellent field service and optional maintenance program contribute to extended door life, low maintenance costs and maximum productivity
- Up to 24-month limited warranty

Approximately 200 RAL Powder Coat Finishes

- The color palette specifying from powder coat finishes in approximately 200 colors is available from your Overhead Door™ Distributor. Color may also be matched to architect's specifications to best complement the look of the facility.



Cover image:

Model 651, primed white

Image above:

Model 650, primed gray



General specifications for ROLLING COUNTER DOORS

	Metal curtain			Integral frame and sill			Wood curtain
Model	650	651	652	655	657	658	665
Maximum standard width	20' (6096 mm)	20' (6096 mm)	20' (6096 mm)	12'5" (3785 mm)	12'5" (3785 mm)	12'5" (3785 mm)	12' (3658 mm)
Maximum standard height	9' (2743 mm)	9' (2743 mm)	9' (2743 mm)	6'5" (1956 mm)	6'5" (1956 mm)	6'5" (1956 mm)	8' (2438 mm)
Standard mounting	face of wall	face of wall	face of wall	between jambs	between jambs	between jambs	face of wall
Standard operation	push up	push up	push up	push up	push up	push up	push up
Curtain material							
Painted steel	•					•	
Stainless steel		•			•		
Aluminum			•	•			
Wood							•
Frame and sill material							
Stainless steel				•	•	•	
Primed steel							
Guide							
Painted steel	Option	Option	Option				
Stainless steel		Option	Option	•	•	•	
Aluminum	•	•	•				
Wood							•
Slat profile type	F-158	F-158	F-158	integral frame and sill slat	integral frame and sill slat	integral frame and sill slat	wood slat
Standard finish	primed paint	No. 4 finish stainless steel	clear anodized aluminum	clear anodized aluminum	No. 4 finish stainless steel	primed paint	unfinished wood
Lock	Interior slide bolt	Interior slide bolt					thumbturn



Available options for ROLLING COUNTER DOORS

Model	Metal curtain			Integral frame and sill			Wood curtain
	650	651	652	655	657	658	665
Electric operator	•	•	•				•
Crank	•	•	•	•	•	•	•
Cylinder lock	•	•	•	•	•	•	•
Wood species							
Douglas Fir							•
Red Oak							•
Birch							•
White oak							•
Exotic							•

Installation and Service: Overhead Door Company of Dallas™ – Commercial



Model 652

METAL CURTAIN – ROLLING COUNTER DOOR

MODELS 650/651/652

These doors are ideal for a host of small-opening applications where security is important and a non-rated door is appropriate. Common applications include concession areas, cafeterias, pharmacies, parts-storage areas and ticket windows.

Standard features at a glance

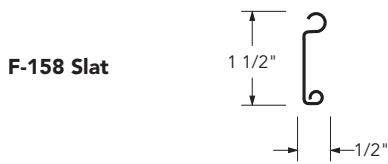
Maximum standard width	20' (6096 mm)
Maximum standard height	9' (2743 mm)
Curtain	Interlocking flat profile slats (F-158) with endlocks 650: galvanized steel (same for hood) 651: stainless steel (same for hood) 652: aluminum (same for hood)
Finish	650: galvanized steel primed with choice of baked-on polyester top coat in gray or tan 651: No. 4 stainless steel 652: Aluminum, clear anodized
Standard mounting	Face-of-wall, between jambs
Counterbalance	Helical torsion springs housed in a steel tube or pipe barrel
Brackets	Steel plate to support curtain, counterbalance and hood
Operation	Manual push-up
Lock	Interior slide bolt
Warranty	24-month limited

Options

Crank or electric operation
Bronze anodized finish (652)
PowderGuard™ premium powder coat paint finish in approximately 200 standard colors, or color-matched to specification
PowderGuard™ Zinc and PowderGuard™ Weathered finishes
Vision lites 5/8" x 3"
Perforated slats
Fenestrated slats with uniformly spaced openings of 5/8" x 3" (16 mm x 76 mm)
Guides - Steel guides; stainless steel guides
Cylinder lock
Fascia and backhoods
Mullions
Bracket end covers



Slat data

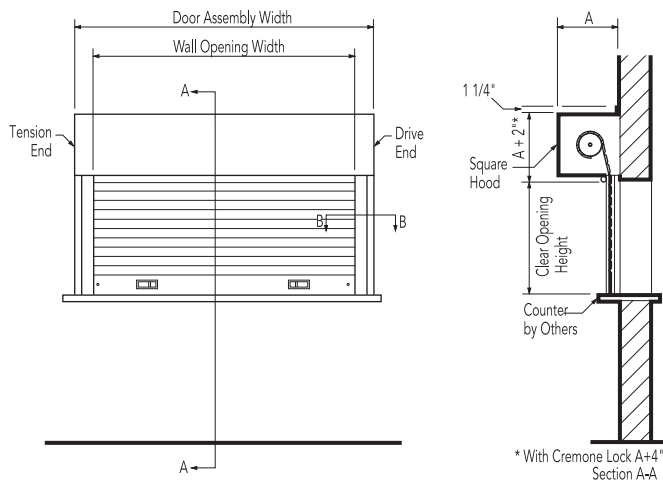


Model	Slat	Opening width	Standard
650	F-158	Thru 20'0" (6096 mm)	22-gauge galvanized steel
651	F-158	Thru 20'0" (6096 mm)	22-gauge stainless steel
652	F-158	Thru 20'0" (6096 mm)	aluminum

Door clearance elevations

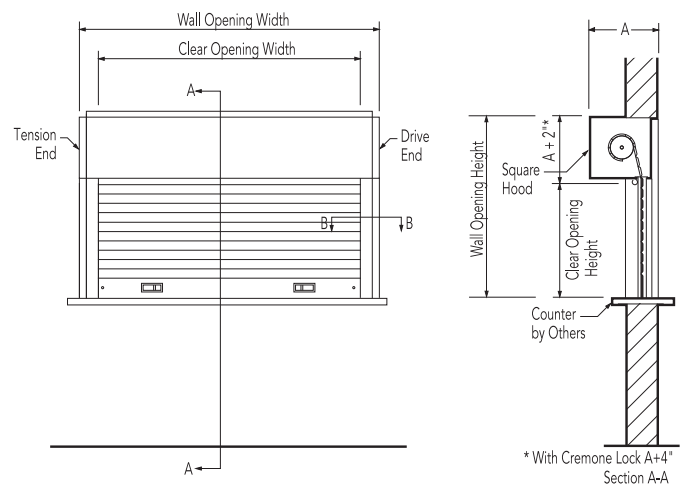
Face-of-wall mounted

Operation: Push-up, crank or electric



Between jambs mounted

Operation: Push-up, crank or electric



Headroom clearance dimensions

Dimensions A F-158 slat

Opening height	A dimension – headplate width
Thru 5'0" (1524 mm)	9 1/2" (241 mm)
Thru 8'4" (2540 mm)	11 1/2" (292 mm)

Door selection guide

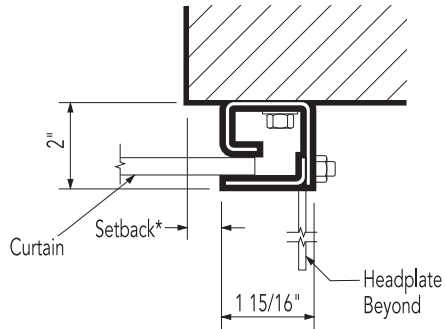
Model	650	651	652
Curtain	Galvanized steel	Stainless steel	Aluminum
Slat	F-158	F-158	F-158
Finish	Gray or Tan	#4	Clear anodized
Hood	Galvanized steel	Stainless steel	Aluminum
Guides	Aluminum/Primed steel/Stainless steel	Aluminum/Primed steel/Stainless steel	Aluminum/Primed steel/Stainless steel
Bottom bar	Primed steel	Stainless steel	Aluminum

METAL CURTAIN – ROLLING COUNTER DOOR

Guides

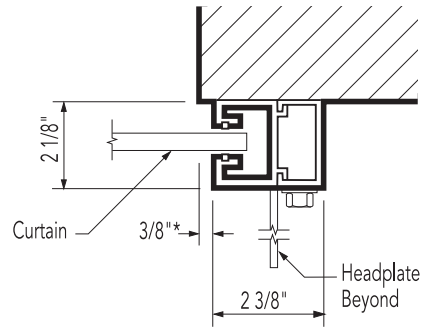
Face-of-wall mounted

Rolled steel/stainless steel



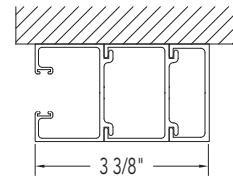
*15/16" for masonry, wood studs, or steel studs.
1/4" for steel jambs.

Extruded aluminum



*All jambs

Extruded aluminum – RTM operator



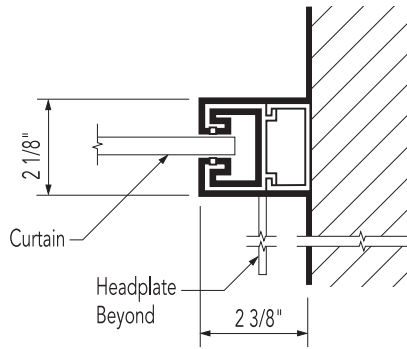
Model 651



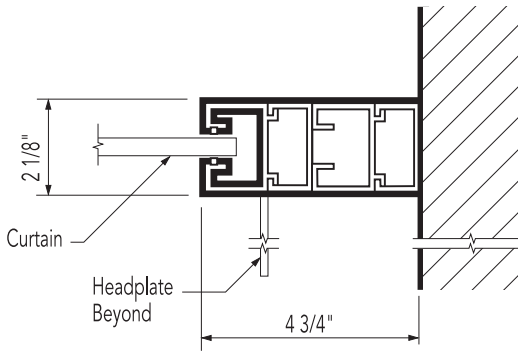
Between jambs mounted

Extruded aluminum guides

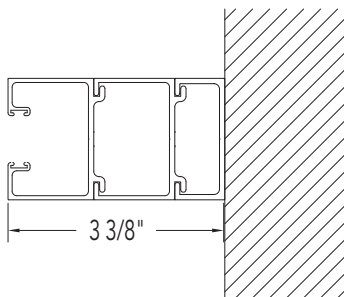
Push-up: tension & drive side
Crank or electric:
Tension side only



Crank or electric:
Drive side only

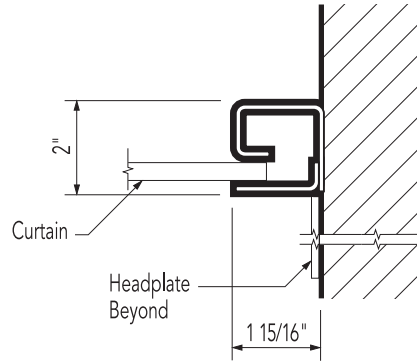


RTM operator

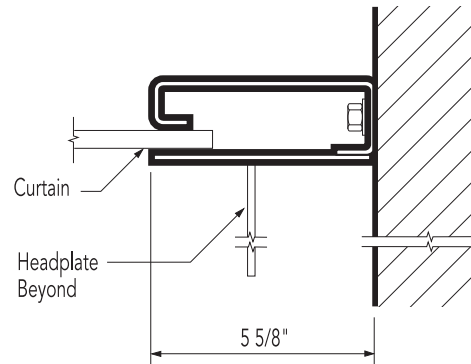


Rolled steel/stainless steel

Push-up: tension side
Push-up: tension & drive side
Crank or electric:
Tension side only



Crank or electric:
Drive side only



INTEGRAL FRAME – ROLLING COUNTER DOOR

MODELS 655/657/658

These models combine an attractive finished appearance with the convenience of a factory-assembled unit. Available to fit openings up to 12'5" wide and 6'5" high (3785 mm and 1956 mm), these rolling counter doors have a variety of applications, including food service areas.



Standard features at a glance

Maximum standard width	12'5" (3785 mm)
Maximum standard height	6'5" (1956 mm)
Curtain	655: .040" (1.016 mm) aluminum slats 657: Interlocking 22-gauge stainless steel slats 658: Interlocking 22-gauge primed steel slats
Integral frames	16-gauge stainless steel
Sill	14-gauge stainless steel
Standard mounting	Between jambs
Hood	Stainless steel
Operation	Push-up
Warranty	OEM limited

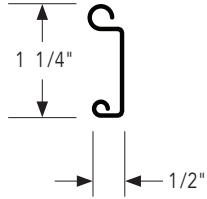
Options

Crank operation
Cylinder locking options
Tubular bottom bar
Lintel brush seal
Guide brush seal



Slat data

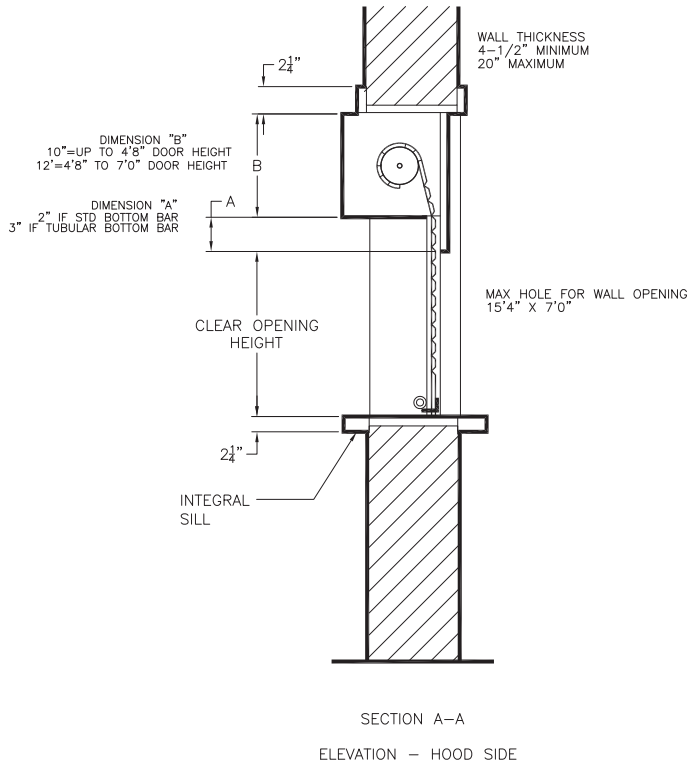
Integral Frame and Sill Slat



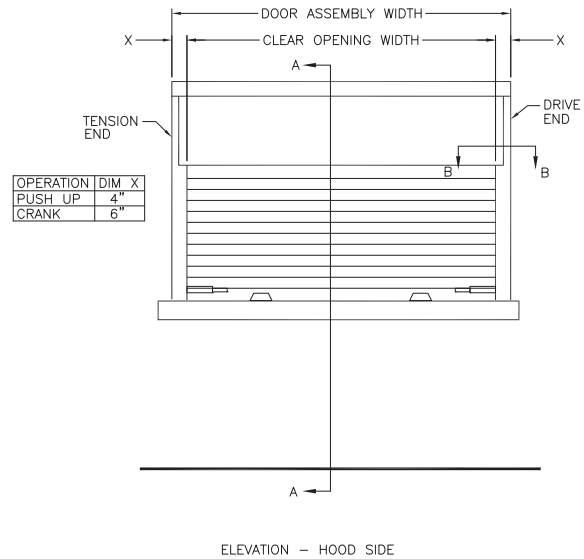
Model	Slat	Frame, sill, hood
655	Aluminum	Stainless steel
657	22-gauge stainless steel	Stainless steel
658	22-gauge galvanized steel	Stainless steel

Door clearance elevations

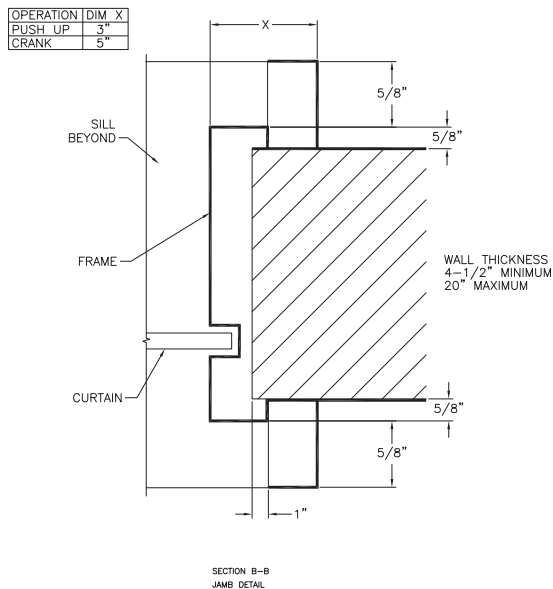
Operation: Push-up, crank



Description	Dimension
Up to 4'8" high	12"
Up to 4'8" high with tubular bottom bar	13"
4'8" to 6'5" high	14"
4'8" to 6'5" high with tubular bottom bar	15"



Jamb section



This unit is designed to be installed as wall is being built. For more detailed information go to our Architects Corner at www.overhaddoor.com/architect-corner. See your Overhead Door™ Distributor for a unit designed for existing openings.

WOOD CURTAIN – ROLLING COUNTER DOOR

MODEL 665

The richness of natural wood to enhance the beauty of any application. Manufactured of high-quality wood, these doors are ideal for use in hotels, banks, churches, libraries, offices, restaurants and schools.



Standard features at a glance

Maximum standard width	12' (3658 mm)
Maximum standard height	8' (2438 mm)
Curtain	Red Oak
Slats	Wood slats, 1 5/8" (41 mm) high by 1/2" (13 mm) thick
Finish	Unfinished
Standard mounting	Face-of-wall, between jambs
Guides	Wood to match slats
Bottom bar	5 1/2" x 1 5/8"
Operation	Push-up
Lock	Thumbturn dead bolt
Warranty	OEM limited

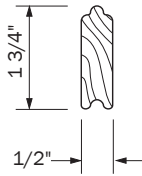
Options

Crank or electric operation
Additional wood species: Douglas fir, white oak, birch, or exotic. Contact plant for additional options
Hood in wood to match slats or aluminum
Aluminum guides
Cylinder lock



Slat data

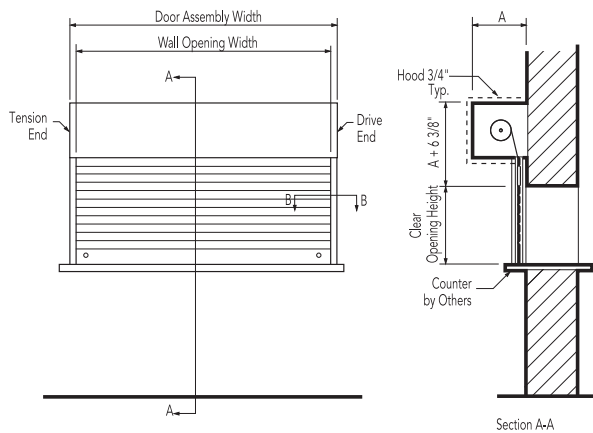
Wood Slat



Door clearance elevations

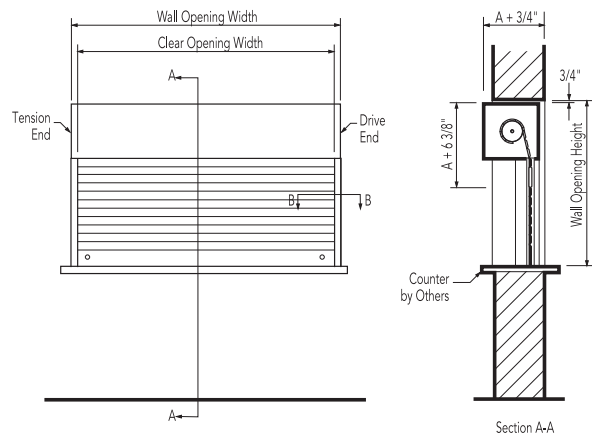
Face-of-wall mounted

Operation: Push-up, crank or electric



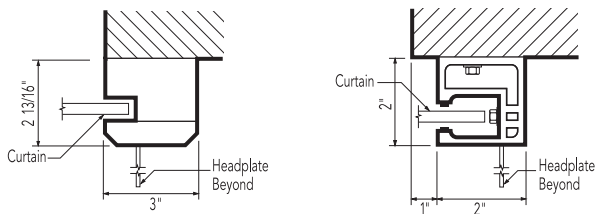
Between jambs mounted

Operation: Push-up, crank or electric



Guides

Face-of-wall mounted
Wood guide | Aluminum guide

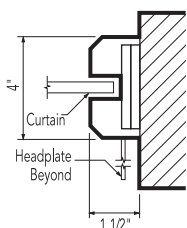


Dimension A

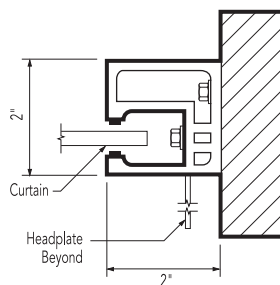
Opening height	A dimension - headplate width
Thru 4'6" (1370 mm)	10" (254 mm)
Thru 6'4" (1930 mm)	11" (279 mm)
Thru 8'4" (2540 mm)	13" (330 mm)

Between jambs mounted - push-up operation
Wood guide | Aluminum guide

Tension & drive side
Crank or electric operation:
Tension side only

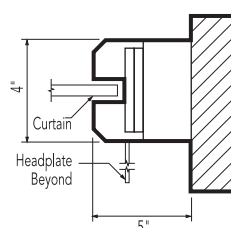


Tension & drive side
Crank or electric operation:
Tension side only

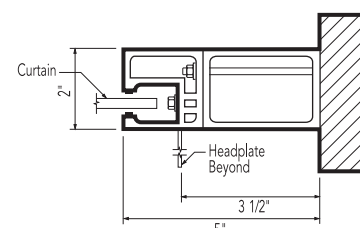


Between jambs mounted - crank or electric operation
Wood guide | Aluminum guide

Drive side only



Drive side only



Electric operators

Our broad line of electric operators to suit new construction and retrofit applications, as well as unusual or special requirements. In order to improve safety and enhance door and motor life, industry quality assurance guidelines recommend the choice of a single manufacturer for both door and operator applications.

We are one of the only manufacturers to offer a full line of commercial and industrial doors and operators specifically designed for integral applications.

Model CDX®

Model CDX® is a gear-reduced commercial operator with a 1/2 HP motor. The CDX® operator may be used for doors up to 140 sq. ft. (13006 sq.mm). Mounting is front-of-hood only. Availability is dependent on weight of door.

Model RMX®

Model RMX® is our advanced medium-duty operator. It is designed for quicker installation and hassle-free operation and operates rolling doors up to 16' (4876 mm) in height and 580 pounds (263 kg).

Model RSX®

Model RSX® is a standard duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 1620 pounds (735 kg). It offers unique features like LimitLock®, SuperBelt™ and 16 digit menu setup.

Model RTM

Model RTM is a tubular motor designed for counter doors. Mounting is in the barrel only.



Safety recommendations

We strongly recommend the use of interlock switches and an electric safety edge for all electrically operated rolling service doors. We recommend a self-monitoring, electric sensing edge.

Entrapment protection: electric sensing edge

The installation of an external reversing device for all electrically operated commercial doors is recommended. If a sensing edge or other reversing device is not installed, a constant-contact control switch must be used to close the door. We recommend a self-monitoring, electric sensing edge or photo cells required for all momentary contact applications.

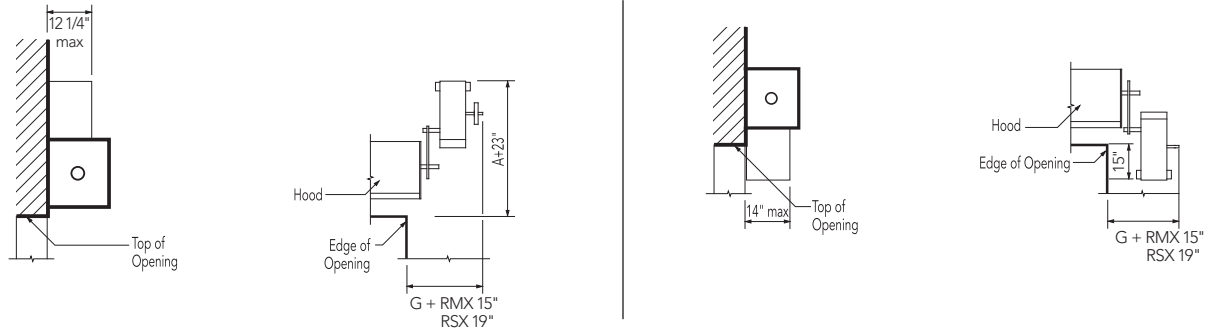


Mounting details

Wall mounted (above shaft) - RHX®/RSX®

Wall mounted (below shaft)

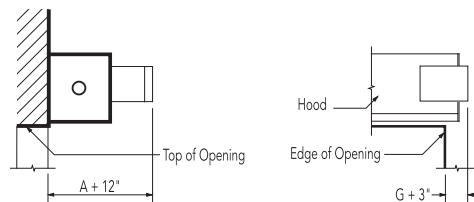
For 650/651/652 and 665 model doors



For "A" and "G" dimensions, refer to headroom and guide clearance dimension charts applicable to door type selected.

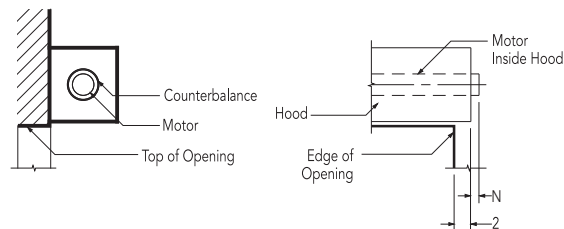
Front-of-hood mounted - CDX®

For 650/651/652 and 665 model doors



For "A" and "G" dimensions, refer to headroom and guide clearance dimension charts applicable to door type selected.
 * Front-of-hood mounted also available on between jambs mounted doors.

Barrel mounted - RTM



N = 2" without manual override.
 N = 3 1/2" with built-in manual override.
 Consult factory for project application. Operator models have height and torque limits.

For more detailed information, refer to our Architects Corner on our website or consult your local Overhead Door™ Company Distributor.



Integral frame counter door



Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

overheaddoor.com

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the sectional garage door industry, inventing the first sectional garage door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



2501 S. State Hwy. 121 Bus., Suite 200, Lewisville, TX 75067
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overheaddoor.com

470

INSULATED STEEL



INSULATED SECTIONAL STEEL-BACK DOOR



PERFECT FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS WHERE DURABILITY, RELIABILITY AND ENERGY EFFICIENCY ARE ESSENTIAL

- **Ribbed wood grain embossed exterior**
- **Solidly constructed for reliable performance**
 - Steel interior backing provides a durable finished appearance
 - Baked-on polyester paint finish eliminates field painting and provides long-lasting protection against the elements
 - Heavy-duty track and hardware are fabricated of high-quality galvanized steel and engineered for precise, trouble-free performance
- **Thermal performance**
 - 2" polystyrene insulation delivers superior 9.83 R-Value*



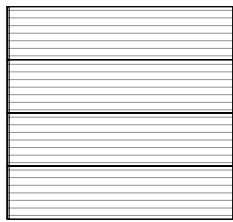
INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

MODEL 470 INSULATED SECTIONAL STEEL-BACK DOOR

Attributes	General specifications
Rugged construction	Three-layer sandwich construction with inner and outer galvanized steel provides durability and reliability
Thermal performance	2" polystyrene insulation delivers superior R-value* of 9.83
Air resistance	Tongue-and-groove joint profile prevents air leakage between sections
Track, springs and hardware	Multiple options for track, springs and hardware available to meet any need: <ul style="list-style-type: none"> – 2" and 3" track available in standard lift, high lift, full-vertical and low headroom options – 10,000 cycle springs standard with high cycle options up to 100,000 cycles – Heavy-duty hardware options available, including 14 gauge commercial leaf end and center hinges
Warranty	10 year delamination; 10 year rust-through; 1 year material & workmanship

*R-value: R-value is a measure of thermal efficiency. The higher the R-value the greater the insulating properties of the door. Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

Panel and glazing options



Ribbed wood grain embossed panel



Double Thermal Acrylic (25" w by 12" h)



Insulated DSB (24" w by 7" h)



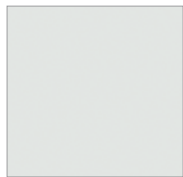
Clear Short (19" w by 12" h)



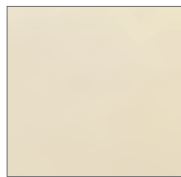
Clear Long (42" w by 13" h)

Finish options

Baked-on, double-coat finish available in:



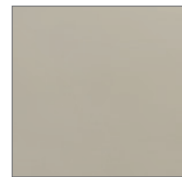
White



Almond



Brown



Sandstone



Desert Tan

Doors with 16.75" sections only available in White and Almond.

Actual colors may vary from brochure due to fluctuation in the printing process. Always request a color sample from your Overhead Door™ Distributor for accurate color matching.



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



2501 S. State Hwy. 121 Bus., Suite 200, Lewisville, TX 75067

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MINIMALISM MEETS FUNCTION

Mapes Cantilever canopies deliver a clean look to compliment any design or building requirement. They are specially engineered with support brackets that offer a clean streetscape sightline and minimalistic look. Deck profiles can be combined with differing fascias to complement any design emphasis or building requirement. Available in a variety of styles including Super Lumideck, Lumishade and SuperShade, to meet your objectives and your expectations.

For more details, please visit mapes.com

CANTILEVER

TECHNICAL DATA

All-extruded Aluminum (T6 - 6063)

Fascia .125"

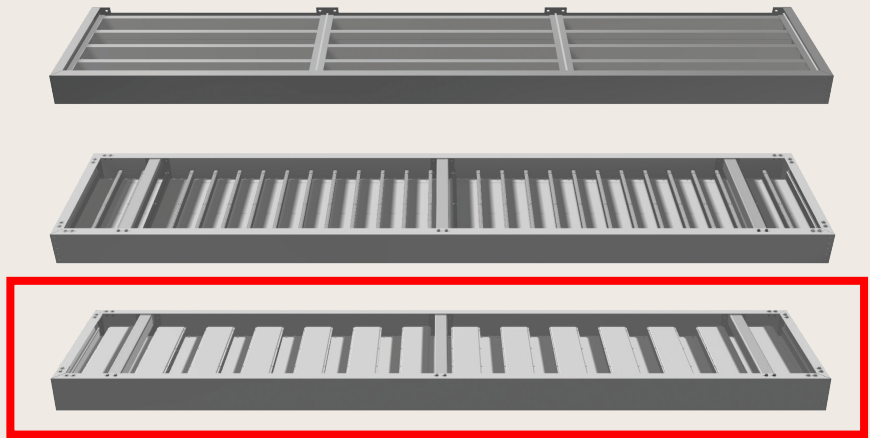
Decking .078" or .040"

Deflection rating L/180

Maximum Projection

5' w/ cantilever supports

Note: Engineered stamped calcs available in all 50 states



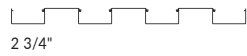
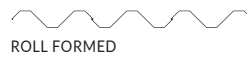
FEATURES

- Pre-engineered
- Modular Design
- Economical
- Custom Colors
- Custom Details
- High Load Capacity
- Internal Drainage

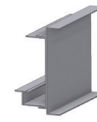
APPLICATIONS

- Retail Branding
- Shopping Centers
- Storefronts
- Parking Garages
- Passive Solar
- Loading Docks
- ADA Access Door
- Warehouses
- Office Buildings

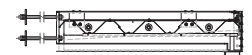
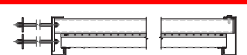
DECK OPTIONS



FASCIA OPTIONS



WALL MOUNT DETAILS



NOTE: COLOR TO MATCH AMWRICAN BUILDINGS FOX GRAY.

Product information for Multi-Use Facility: pre-engineered structural system, roof, fascias, gutters, downspouts



SOLUTIONS FOR BETTER BUILDINGS



**AMERICAN
BUILDINGS**
a **NUCOR** brand



MEET THE METAL BUILDING EXPERTS





American Buildings, a Nucor Corporation brand, is an authority when it comes to steel buildings.

We imagine custom-engineered solutions and then bring them to life. Our expertise can be seen in applications of all types, from shopping centers to aircraft hangars. Customers across the country attest to the advantages of our systems, including flexibility, speed, cost effectiveness, durability and low maintenance. By working closely with our experienced coast-to-coast network of Authorized American Builders, we have the ability to deliver top quality metal building solutions and services to your jobsite.

LET AMERICAN SHOW YOU A NEW WAY TO BUILD—A BETTER WAY.

AMERICAN FITS IN YOUR WORLD—WHATEVER IT IS



COMMERCIAL

Customers seeking offices, individual stores, large shopping centers, restaurants, automotive dealerships and more all turn to American.



WAREHOUSE

American's adaptable systems mean they can be customized for the clear heights, widths and bay specifications you're needing.



COMMUNITY

The unobstructed spaces we can create are perfect for institutional and government projects, including schools, medical facilities, churches and indoor recreational facilities.



AGRICULTURAL

Take advantage of value engineering for multiple buildings on your property. We manufacture open-air barns and enclosed storage facilities for farmers across the U.S.



INDUSTRIAL

Our flexible layouts can accommodate a variety of workflows. Whether it's manufacturing, material handling or storage, American has the solution.



TRANSPORTATION

Garages and aircraft hangars benefit from our specialized layouts and ability to accommodate any size and type of door system.



FLEXIBILITY WHERE YOU NEED IT

Since they're made of steel, our buildings are some of the strongest out there. But they're also the most flexible. In fact, we design our systems so they can adapt to whatever your needs are.



CUSTOMIZED EXTERIORS

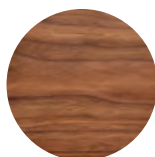
Often people have no idea when they see one of our projects that it's a steel building. That's because you can combine our metal systems with other materials, such as:



**MASONRY
BRICK**



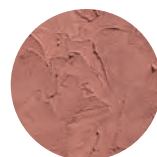
STONE



WOOD



GLASS



STUCCO



**INSULATED
PANELS**

VIRTUALLY UNLIMITED INTERIOR LAYOUTS

The possibilities are almost endless when you get inside an American building. Our team can design your flexible building solution depending on workflow and storage needs. Wide clear spans provide for interior spaces unobstructed by columns. Mezzanines and special load requirements for crane or heavy equipment can also be incorporated.

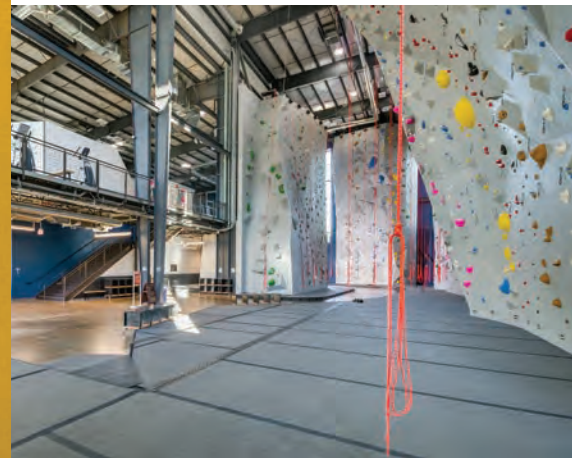


FELXIBILITY ON
**WORKFLOW AND
STORAGE NEEDS**



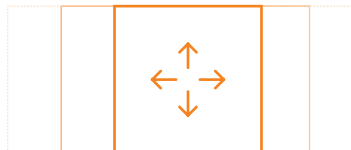
OPEN CLEAR SPAN OPTIONS

SPECIAL LOAD
REQUIREMENTS FOR
CRANE OR HEAVY EQUIPMENT



NEW BUILDS & EXPANSIONS

Because of the custom engineering and efficient design process, American buildings are the perfect choice for new construction, where you're building from the ground up. But our designs also make future additions simple. When more space is needed, the walls and framework are easily removed and then space can be added on by using another metal system.



SPEED IN EVERY STEP

A full staff of in-house engineers with decades of experience design and manage each project. They use American's state-of-the-art technology to dramatically reduce design timeframes, and our review process can reduce the need for revisions. Because every building is manufactured to your specific needs using sophisticated manufacturing processes at our plant, fabrication is fast. And since our systems incorporate fewer parts on the jobsite and are pre-welded, pre-drilled and pre-punched at the factory, erection is quick as well. That means lower labor costs and shorter downtimes.

IN-HOUSE
ENGINEERS

STATE-OF-
THE-ART
TECHNOLOGY

FAST
FABRICATION

FEWER
PARTS

BENEFITS OF METAL BUILDINGS



COST EFFECTIVENESS

On average, our custom metal buildings cost less than conventional construction — often up to 30% less. This is due to our efficient design process, which utilizes Tekla BIM 3D technology. In addition, our products and building systems are fabricated on-site in our IAS AC472-accredited facility, so you can be confident in their quality and code compliance.

Increased Longevity, Minimal Maintenance

Metal buildings are extremely durable, with a longer lifespan than wood structures. Steel is also resistant to corrosion, mold and termites.



FAST & EFFICIENT

Faster Construction Time

Our steel building systems are designed by professional engineers using the industry's most advanced technology. This simplifies construction and significantly reduces erection time. This means lower "in place costs" as well as quicker occupancy.

Easy to Erect

Our buildings are engineered to go up fast, easing your construction budget concerns.

Reduced Design Time

Our optimized processes greatly reduce the time to design, produce, and fabricate your metal building.



FLEXIBLE & VERSATILE

Wide-Range of Applications

Our buildings meet a wide-range of applications from industrial and commercial, to the agricultural, community, and retail industries.

Architectural Flexibility

There are numerous design options, exterior siding, roofing, and trim colors available to beautifully finish your American building. Brick, stucco or wainscoting may also be used... The sky is the limit!

Ease of Expansion

When more space is needed, metal walls and framework are simple to remove for easy and seamless additions to existing metal buildings.



ENVIRONMENTALLY FRIENDLY

Our steel building systems contain over 70% recycled steel and are 100% recyclable.

Energy-Efficient

Our buildings are adaptable to a number of energy efficient insulation systems. This includes our cool-coated insulated metal panels, which can reduce energy costs. A low profile roofline can also eliminate unnecessary head room to heat and cool.

LEED

Our building systems offer an opportunity to capitalize on earning LEED points right from the start.



CUSTOM ENGINEERED

Solutions That Work

Each of our metal building systems is custom-designed using the latest in design technology to meet your unique needs. Our product is your solution!

A STAMP OF APPROVAL THAT MEANS SOMETHING



As an International Accreditation Services (IAS) AC472-accredited building systems manufacturer, we are recognized as having the expertise, resources and infrastructure to provide quality work.



It's also an assurance that we comply with the special inspection requirements in Chapter 17 of the International Building Code.



American Buildings is an active member of MBMA, the Metal Building Manufacturers Association. As a member of MBMA, our manufacturing and engineering policies, practices, and procedures are audited annually. This helps ensure the structural integrity and quality of our metal buildings.

PROTECTING THE FUTURE



As an ISO 14001:2015-certified manufacturer, American Buildings is dedicated to protecting our environment and reducing waste. American and Nucor recycle 22 million tons of scrap annually. In fact, by producing recycled rather than virgin steel, in one year we save enough energy to power Los Angeles for eight years.

22 MILLION

TONS OF SCRAP RECYCLED ANNUALLY

That's enough energy to power Los Angeles for eight years.

Our products are also built with the environment in mind. Our paint finishes reflect the sun's rays—decreasing environmental temperatures and lowering energy use. The coatings also reduce smog and the heat island effect.

LOWER

ENVIRONMENTAL TEMPERATURES
ENERGY USE + SMOG



Nucor Corporation is a member of USGBC® (U.S. Green Building Council) an organization promoting environmentally responsible, profitable and healthy places to live and work. Our building systems can earn LEED® points through their recycled content, sustainability, and our wall and roof panels utilizing cool coating technology.



BUILDING SYSTEM STYLES



Gable Roof

This provides a roof with two sloping sides and a ridge. The tapered columns are a cost-effective solution for office, warehouse, industrial and commercial applications. A straight column option is ideal for palletized storage or display racks, as well as for shopping centers and other commercial buildings. Clear span frames or interior columns are possible. The roof slope can be as low as ¼:12 or as steep as 6:12.



Gable - Modular Rigid Frame

Our modular rigid frame's interior columns provide multiple spans on wider buildings. This economical frame type makes use of interior load-bearing columns to more evenly distribute the building load. Thus helping to reduce the size of the rafter & columns. It is available in both gable and single slope designs.



Single Slope

These buildings have one roof surface. The single-side drainage makes them suitable for manufacturing facilities, warehouses and retail shopping centers. Tapered columns provide an inexpensive solution for wider buildings, while the available straight columns maximize usable interior space. The roof slope can be as low as ¼:12 or as steep as 6:12.



Lean-To

This system provides a cost-effective way to make a building wider. A single slope system is attached to a lower level of the building or extends the roofline.



COLUMN SHAPES



Tapered

Normally found in buildings where interior finishing is limited, such as warehouses, distribution centers and storage facilities



Straight

Allows for interior walls and maximum use of interior space

GIRT CONDITIONS



Bypass

The most common condition. Makes a continuous run around the outside of a building's columns. Provides air space that's the width of the girt between the column and the exterior panels



Inset

Minimizes air space between the columns and exterior panels



Flush

Provides no air space between the columns and exterior panels thus maximizing floor space



CLEARBAY® ROOF JOIST SYSTEM

Our proprietary roof joist system provides the ultimate in versatility and open spaces for a variety of applications. The design allows for bays up to 60-feet wide, making it ideal for hangars, large indoor recreational buildings, warehouses and more.

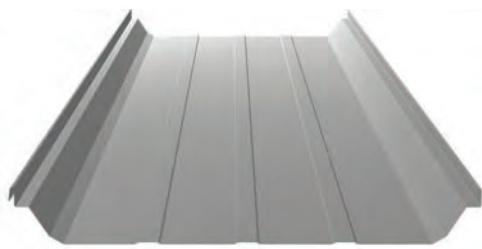


As a single-source provider and coupled with our BIM 3D software, we can provide customized designs with incredible accuracy in a very short time. You can choose from full-bolted connections—which reduce the need for onsite welding and decrease construction costs—or fully-welded connections. All ClearBay systems are made in the U.S. with American steel, and thanks to our centrally-located manufacturing facility, freight costs are lower and delivery is fast.





ROOF SYSTEMS



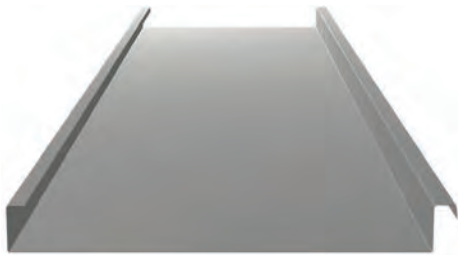
SSII/SS360 Standing Seam Roof Systems

This system offers superior performance, full flexibility of design, and low life cycle cost with minimum maintenance. SS360 panels are joined by an electric seaming machine developing a full 360 degree rolled seam to ensure weathertightness. It's been approved for wind uplift, hail and fire resistance.

GAUGE: 24 OR 22

COVERAGE: 24"

PANEL LENGTHS:
UP TO 50'



Loc Seam Vertical Rib Standing Seam

This system offers a flatter profile standing seam roof system with 16" coverage width and a 2" tall vertical seam. In addition to being more attractive, the mechanical seaming makes it weathertight. The back-to-back vertical rib installs easier at hips and valleys than trapezoidal or corrugated roof panels. 90° and 360° seaming profiles are available.

GAUGE: 24 OR 22

COVERAGE: 16"

PANEL LENGTHS:
UP TO 50'



R-Panel

Our R-Panel offers a simple and efficient roof system available in a variety of options. Its even-shadowed appearance has 1-1/4" ribs on 12" centers. It offers 36" of coverage, that is reinforced between the ribs for additional strength.

GAUGE: 26
(22 & 24 AVAILABLE)

COVERAGE: 36"

PANEL LENGTHS:
UP TO 50'



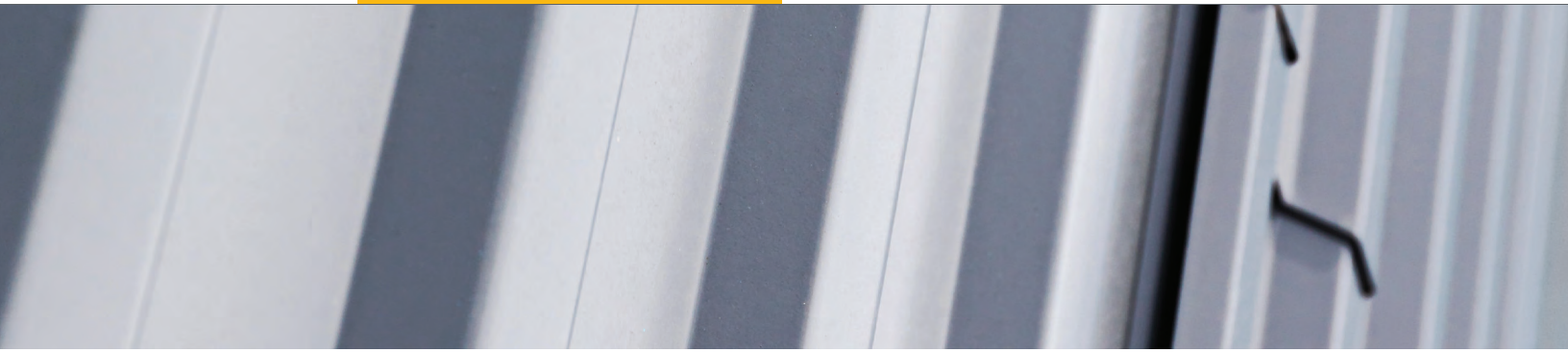
Translucent Roof Panels

Our translucent roof panels are available in R-Panel at 11'-0" lengths, and standing seam at 10'-6" lengths. Both panels are available in insulated and non-insulated, and designed for 5' purlin/joist spacing.

GAUGE: 24

COVERAGE: 24", 36"

PANEL LENGTHS:
11'-0" R-Panel
10'-6" Standing Seam



WALL SYSTEMS



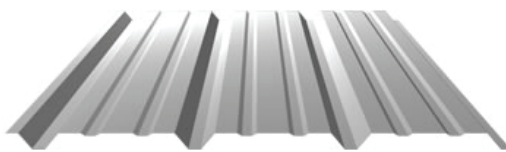
R-Panel

Both durable and attractive, the R-Panel is ideal for industrial, agricultural, and commercial applications. With a 36" width coverage, the R-Panel's main ribs are 1-1/4", and offers an even-shadowed appearance.



A-Panel

Offering more of an architectural aesthetic, the A-Panel features recessed fasteners, providing a clean exterior appearance and making it ideal for fascias and decorative wall designs. Our A-Panel provides 36" coverage with 1-5/16" high ribs.



Reverse R-Panel

Our Reverse R-Panel is designed to compress insulation without unsightly bulges at the girt. Its fasteners are semi-concealed which offers a decorative shadow line. The Reverse R-Panel provides a 36" width coverage.



Translucent Wall Panels

Allow natural light to transmit into your building by adding translucent wall panels. Not only do translucent wall panels offer a source of natural illumination, they can help with energy savings. Translucent panels are available in each of our standard wall panel profiles.





INSULATED METAL PANEL SYSTEMS BY



Our insulated wall and roof systems provide reliable thermal performance and insulation continuity with no cavities, gaps, crushed insulation or thermal bridges. R-values remain stable when purlin and girt center dimensions are varied, and R-value can be easily increased with thicker panels. The insulated core is the most thermally effective insulant commonly available today. The wide panels are attractive, lightweight, sturdy, durable, and install quickly and easily.



Striated Profile Wall Panel

Exterior Finish: Non-Directional Embossed

Mesa Wall Panel

Exterior Finish: Non-Directional Embossed

Light Mesa Wall Panel

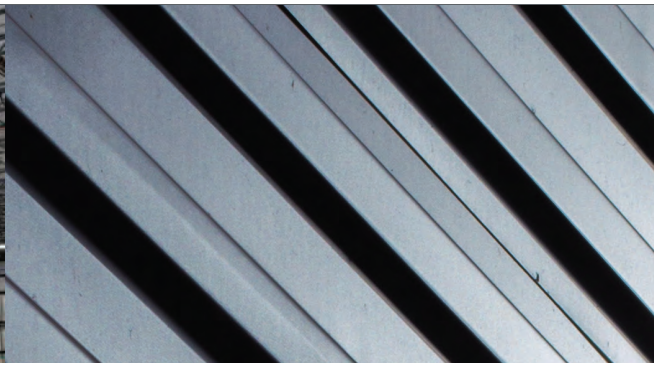
Exterior Finish: Non-Directional Embossed

Sante Fe Wall Panel

Exterior Finish: Heavy Embossed

CFR-IMP Standing Seam Roof Panel

Exterior Finish: Non-Directional Embossed



PRISMATIC SKYLIGHTS

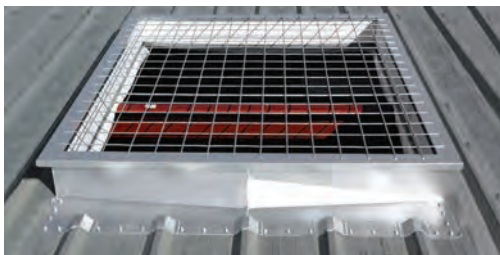
American's prismatic skylights allow 100% diffusion and transmit 35% more light than conventional skylights—virtually eliminating hotspots and glare within your building. When they're installed along with LED lighting and efficient controls, lighting energy consumption can be reduced by 40-60%.

40%-60%

REDUCTION IN LIGHTING ENERGY CONSUMPTION



Curb Mounted Skylights are perfect for new construction or retrofit applications. They're made with a double-glazed acrylic over acrylic lens and use the highest UV-resistant materials for maximum light transmission. They have no moving parts and exceed current building codes for strength.



Roof Curb Systems For Prismatic Skylights are specifically designed to fit American's various roof profiles. No secondary framing is required with this kit. Steel lined with an insulated curb wall, each component has been selected to withstand severe weather conditions.



We offer a variety of optional accessories and building components designed to fit your structure.



Walk Doors

Our preassembled painted doors include all hardware and are self-framing for ease of installation. Knock-down doors are shipped with all components for field assembly. Both types are foam insulated and include 14-gauge heavy-duty sub-jambs and an aluminum threshold. They are also both ADA compliant.



Door Options & Accessories

Supplement a preassembled door system with factory-installed options and accessories to suit any need, such as standard-duty or heavy-duty closers, panic devices, standard mortise locks, ball-bearing hinges, latch guards, glass “lites” or glass panes.



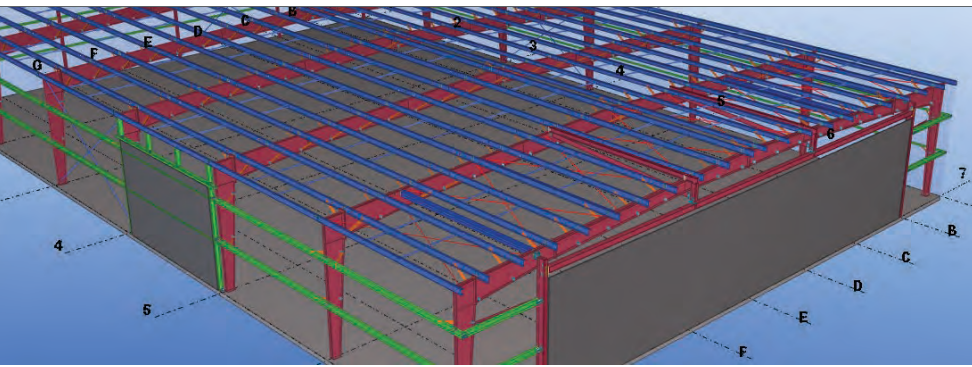
Windows

Our window systems are available in standard or custom styles and sizes and can be ordered with narrow light or thermal barrier options.

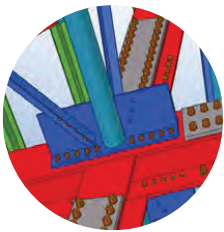


Translucent Panels

Fiberglass reinforced with high quality thermosetting polyester resin and UV inhibitors provide additional natural indirect lighting.



TOOLS TO HELP US & HELP YOU



Building Information Modeling (BIM)

All of our projects use Building Information Modeling (BIM), a conceptual modeling tool that gives manufacturers, principals and customers a wealth of information that was previously only imagined. It encompasses building geometry, spatial relationships, geographical information, quantities and properties of building components. It's so inclusive, it can be used for fabrication. And the digital prototype can serve as a customer resource for building management and maintenance.



Energy Code Solutions

When it comes to energy, there are a variety of different regulating organizations, codes and requirements. With so many codes and regulations on the state and local level that overlap and change on a regular basis, it's almost impossible to keep up and comprehend them all. That's where we come in. Our experienced and knowledgeable Energy Team knows compliance inside and out. From state codes to regional climate requirements and everything in between, we've got you covered.



ShakeoutPro® The Steel Staging App For Your Jobsite

ShakeoutPro is a unique mobile app specifically developed to help builders and erectors save time receiving, unloading and staging steel at the job site. This easy-to-use, powerfully robust application only takes a matter of minutes to become proficient at using. All you need is a smart device – no additional equipment required.



eQuote

Our proprietary pricing system gives you accurate and in-depth estimates so you can successfully and efficiently quote projects. The web-based platform allows you to access and make changes while visiting jobsites and collaborate among team members and others. You can compare layouts and instantly view a 3D rendering.



Nucor Steel Store

Buying components has never been easier thanks to the Nucor Steel Store. This catalog is the largest online source of custom steel construction products. In a few quick clicks, you can order everything from purlins to accessories to hardware.

WARRANTIES FOR PEACE OF MIND



One Year Building Manufacturer's Workmanship Warranty

As a standard offering for each building, American Buildings warrants its products against defects in materials and defects in fabrication of the building components.

Paint System Warranties

Our finishes protect against chipping, peeling, blistering, and excessive fading and chalking. Coverage is based on the finish type and range from 25 to 35 years.

Roof Panel Weathertightness Warranties

We offer a variety of options tailored to fit your needs. Our highly flexible multi-level packages can provide you with as little or as much coverage as your project requires, including inspection demands. Visit our website to learn more.

Contractor Installation Certification Program (CICP)

American offers an industry leading roof panel installation program that encompasses classroom instruction and hands-on installation of our roof systems. Successful completion of CICP is a requirement to purchase and install No Dollar Limit warranties.

WHAT DO YOU NEED?



WHATEVER IT IS, WE CAN FIGURE IT OUT.

Let us create a custom steel building that can serve your needs for decades. With all of our systems' advantages and American's years of experience, you can be assured that you'll have a solution that is designed, engineered and manufactured to the highest quality.

Contact American Buildings today to get your next project started.

americanbuildings.com





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BUILDINGS**

a **NUCOR**® brand

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