

General Requirements

Part 8 TABLES

Table A.1 - SUBSTRATE REQUIREMENTS - CONTINUED								
Deck	Required Criteria	Application						
APA Plywood Sheathing	Plywood sheathing shall be C-D, Exposure 1-min. 4-ply-not less than 15/32" thick	Maximum joist spacing 24" o.c. or less with min. 1/8" to 1/4" spacing between panels						
APA Oriented Strand Board Sheathing (OSB)	OSB sheathing shall be PS 2-10, Exposure 1, Structural 1 not less than 7/16" thick	Install with all sides bearing on and secured to joist and cross blocking in accordance with APA- The Engineered Wood Association requirements						
Wood Plank	Minimum 1" nominal thickness and have a nominal width of 4" to 6". Tongue and Groove or shiplap planks. Kiln-dried lumber	All boards must be supported on rafters at each end and be securely fastened. Cover knotholes or cracks greater than 1/4" with securely nailed sheet metal						
22 ga. Steel	Cold formed steel decking— minimum finish coat of primer paint on both sides. G-90 galvanized steel recommended-minimum 22 gauge	Comply with Factory Mutual gauge and span requirements, and guidelines contained in FM LPDS 1-28 and 1-29						
24 - 26 ga. Steel	Requires written approval from IB Technical Services Manager	Mandatory fastener withdrawal tests in accordance with ANSI / SPRI FX-1 required						
	Minimum deck thickness for structural concrete is 4 inches							
	Minimum 2500 psi compressive strength	Roof deck shall be allowed to cure prior to						
	Finished to a smooth uniform surface free of sharp edges, ridges and irregular surfaces	application of the rooting system. Evaluate surface moisture and deck dryness as required with the ASTM D4263 or bot bitumen test procedures						
Structural	Sumps for roof drains shall be provided in the casting of the deck	AS TW D-200 OF NOL BILIMENTIES (procedures.						
Concrete	Wood nailers shall be cast into the deck at perimeter edges and openings for non-insulated assemblies	Penair cracks greater than 1/8 inch in width						
	Underside of deck shall be constructed to allow drying and prevent moisture entrapment. Deck forms shall be removed or vented. Do not install materials or finishes to underside of deck that are impermeable or restrict drying.	in accordance with the deck manufacturer's recommendations.						
Precast /	Minimum deck thickness 2"	Inspect deck panels prior to roof installation.						
Concrete	Fill joints with suitable masonry grout at vertical offsets between panels troweled to provide a smooth, uniform surface	units.						
	Minimum deck thickness of 2"	Comply with requirements of deck manufacturer. Do not install during periods of inclement weather,						
Lightweight	Minimum compressive strength of 200 psi and a minimum density of 22 pcf for adhered roofing systems	rain or ambient temperatures below freezing. Frozen decks shall be replaced. Inspect deck for signs of entranment or excess moisture						
Insulating Concrete	Lightweight Insulating Concrete fill must be completely dry for adhered application of IB roof assemblies	Cellular lightweight insulating concrete may be						
	Installation over non-venting substrates requires review and written approval of IB Technical Services Manager	installed over approved galvanized non-slotted decking or structural / precast concrete decks.						
	Minimum deck thickness of 2"	Decks shall be protected from the weather during						
	Secure all panels to supports to resist uplift and lateral movement	storage and application; any wet or deformed						
Cementitious Wood Fiber	Grout and level deflections and irregularities between panels to provide a level, smooth deck	decking shall be removed and replaced.						
	Installation in high humidity environments requires careful design, maintenance and air / moisture control to prevent excess moisture accumulation and deck deterioration	Composite deck panels containing EPS / XPS polystyrene insulation are not suitable for use with solvent-based roof system adhesives.						
	Minimum deck thickness of 2"	Comply with requirements of deck manufacturer. Do not install during periods of inclement weather, rain or ambient temperatures below freezing. Frozen decks shall be replaced.						
Gypsum	Poured decks reinforced with steel mesh over gypsum formboard	Decks should be inspected for signs of entrapment or excess moisture.						
	Precast units formed with reinforced steel edges for clipped or fastened application to supports	Mandatory fastener withdrawal tests in accordance with ANSI/SPRI FX-1 required.						

TABLE A.2 - IN	SULATION FASTENER SCHEDULE FOR ADH	IERED IB RO	DOF M		S			
Deck Types: min	. 22 ga. Steel, min. 4" Structural Concrete, 1/2" - 3	/4" Plywood,	1" or gr	eater Wood	Plank, To	ongue a	nd Groove	
	Insulation Type	Thickness		4' x 4'			4' x 8'	
	inculation type		Field	Perimeter	Corner	Field	Perimeter	Corner
	IB Energy Board II/III	1.0" - 1.4"	6	9	12	12	18	24
Polyisocyanurate	IB Energy Board II/III	1.5" - 1.9"	5	8	10	10	15	20
	IB Energy Board II/III	2.0" Min.	4	6	8	8	12	16
Polystyrene	EPS / XPS ²	1.0" Min.	6	9	12	12	18	24
rolystyrene	EPS / XPS ²	1.5" Min.	6	9	12	12	18	24
	DensDeck® Prime / DEXCell® FA Glass Mat Board	.25" Min.	6	9	12	12	18	24
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	.25" Min.	6	9	12	12	18	24
	Structodek® HD Red Primed Board	.50"	6	9	12	12	18	24
Cover Board	DensDeck® Prime / DensDeck® StormX Prime	.50"625" Min.	5	8	10	10	15	20
	DEXCell® FA Glass Mat Board / DEXCell® Cement Roof Board	.50"625" Min.	5	8	10	10	15	20
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	.50"625" Min.	5	8	10	10	15	20
	ACFoam® HD Cover Board / HShield HD ISO	.50"	5	8	10	10	15	20
Deck Types: Mir	n. 24 ga. Steel, LWIC over Steel Form Deck ¹ , 7/16"	OSB, Cemen	titious \	Nood Fiber,	Poured (Gypsum		
	handedten Terre	Thistory	4' x 4'		4' x 8'			
	Insulation Type	Thickness	Field	Perimeter	Corner	Field	Perimeter	Corner
Deluiseeurete	IB Energy Board II/III	1.0" - 1.9"	8	12	16	16	24	32
Polyisocyanurate	IB Energy Board II/III	2.0" Min.	6	9	12	12	18	24
Dolvaturana	EPS / XPS ²	1.0" Min.	8	12	16	16	24	32
Folystyrene	EPS / XPS ²	1.5" Min.	8	12	16	16	24	32
	DensDeck® Prime / DEXCell® FA Glass Mat Board	.25" Min.	8	12	16	16	24	32
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	.25" Min.	8	12	16	16	24	32
	Structodek® HD Red Primed Board	. 50"	8	12	16	16	24	32
Cover Board	DensDeck® Prime / DensDeck® StormX Prime	.50"625" Min.	6	9	12	12	18	24
	DEXCell® FA Glass Mat Board / DEXCell® Cement Roof Board	.50"625" Min.	6	9	12	12	18	24
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	.50"625" Min.	6	9	12	12	18	24
	ACFoam® HD Cover Board / HShield HD ISO	.50"	6	9	12	12	18	24
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The above fastening guidelines are approved by IB Roof Systems for use in accordance with our current specifications and meet minimum IB installation requirements for issuance of standard published IB warranties. Roof deck fastener withdrawal resistance must meet or exceed IB required minimums. Fasteners and plates must be IB labeled and approved for the specific deck type. Buildings with field of roof design velocity pressures above -30 psf and projects requiring IB Wind Riders may require additional fasteners and roof system securement. IB Roof Systems does not practice architecture or engineering. It is the responsibility of the designer of record, building owner or roofing contractor to determine required roof assembly wind resistance and comply with applicable code requirements. Contact IB for additional information and refer to published IB roof assembly Approval listings, General Requirements, Specifications, and Construction Details for information on roof components and fastening rates to meet specific project design requirements.

¹Requires prior written approval of IB Technical Services for existing dry Cellular LWIC over minimum 24-gauge Steel Form-Deck

²Requires minimum 1.5 lb/ft3 density and minimum .25" layer of IB approved Gypsum or HD polyisocyanurate cover board or minimum 1.0" layer of IB Polyisocyanurate board above EPS/XPS insulation

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TABLE A.3 - SUBSTRATE WITHDRAWAL RESISTANCE AND INSULATION FASTENER TABLE								
Deck / Substrate Type	Fastener Withdrawal - Average Resistance	Insulation Fastener /	Fastener Penetration Into					
	Values ¹	Fastener	Plate	Deck				
1" minimum Wood Plank	450 lbs.	SD #12, HD #14	3" Round Galvalume	1" Min.				
1/2" minimum C-D, Exposure 1 Plywood	425 lbs.	SD #12, HD #14	3" Round Galvalume	1/2" through				
5/8" OSB	350 lbs.	HD #14, XHD#15	3" Round Galvalume	1/2" through				
7/16" OSB	275 lbs.	HD #14, XHD#15	3" Round Galvalume	1/2" through				
22 ga. Steel	525 lbs.	SD #12, HD #14, XHD #15	3" Round Galvalume	3/4" through				
24 ga. Steel	425 lbs.	HD #14, XHD#15	3" Round Galvalume	3/4" through				
Cellular LWIC over 24 ga. Steel Form	425 lbs.	HD #14, XHD#15	3" Round Galvalume	3/4" through				
Structural Concrete	800 lbs.	CR 10 or Dekspike	3" Round Galvalume	1-1/4" Min.				
Poured Gypsum	300 lbs.	Deklite or GypTec	3" Round Gyp Plate	1-1/2" Min.				
Cementitous Wood Fiber	300 lbs.	Deklite or GypTec	3" Round Gyp Plate	1-1/2" Min.				
¹ Fasteners shall be IB Roof Sy	¹ Fasteners shall be IB Roof Systems supplied and approved for the specific substrate / roof deck type							

TABLE A.4 - IB INSULATION ADHESIVE SCHEDULE FOR ADHERED IB ROOF MEMBRANES								
Approved Decks / Substrates Insulation Type ² Thic		Thickness	Field	Perimeter	Corner			
	Polyisocyanurate	Polyisocyanurate 1.0" Min.						
 Structural Concrete Cellular Lightweight Insulating Concrete 	EPS (1.5 pcf) ³ / XPS (1.55 pcf) ³	1.5" Min.		8" o.c. (max.)	6" o.c. (max.)			
	HD ISO / Approved Composite	1.5" Min.	12" o.c.					
- Cementitous Wood Fiber	Gypsum Cover Board	.25" Min.						
- Approved Existing Roof Systems ¹	Cement Roof Board	.375" Min.]					
	HD ISO Cover Board Structodek Wood Fiberboard (primed)	.50" Min.						

The above insulation adhesive guidelines are approved by IB Roof Systems for use in accordance with our current specifications and meet minimum IB installation requirements for issuance of standard published IB warranties. Roof deck insulation adhesive withdrawal resistance must meet or exceed IB required minimums. Contractor must confirm adequate adhesion to substrates with insulation adhesive pull tests in accordance with ANSI / SPRI IA-1. Insulation adhesive must be IB labeled and approved for the specific deck and substrate type. Buildings with field of roof design velocity pressures above -30 psf and projects requiring IB Wind Riders may require additional adhesive and supplemental roof system securement. IB Roof Systems does not practice architecture or engineering. It is the responsibility of the designer of record, building owner or roofing contractor to determine required roof assembly wind resistance and comply with applicable code requirements. Contact IB for additional information and refer to published IB roof assembly Approval listings, General Requirements, Specifications and Construction Details for information on roof components and adhesive application rates to meet specific project design requirements.

¹Prepared and primed existing smooth or granule surfaced asphaltic BUR and MB roof systems meeting IB specifications and requirements

²Roof insulation boards must be IB Roof Systems labeled, supplied or approved for use with IB roof membranes and assemblies ³Requires minimum .25" layer of IB approved gypsum board, .375" cement board, .5" high density polyisocyanurate cover board, .5" high density wood fiber board, or minimum 1.0" layer of IB approved polyisocyanurate board above EPS/XPS insulation



TABLE A.5 – INSULATION FASTENING TABLE FOR INDUCTION WELDED IB ROOF MEMBRANES						
Deck / Substrate Type	Fastener Withdrawal	Insulation Fastener Re	Fastener Penetration into			
	Values1	Fastener/Plate	Fastening Pattern f/p/c	Deck		
Structural Concrete	800 lbs.	IB HD #14 or CD-10 or Dekspike	6-9-12	1" Min.		
22 ga. Steel	525 lbs.	XHD #15	6-9-12	3/4" through		
24 ga. Steel	425 lbs.	XHD #15	8-12-16	3/4" through		
16 ga. Purlin	700 lbs.	IB #12 Purlin	12" o.c.	3/4" through		
1/2" minimum Plywood	425 lbs.	HD #14	8-12-16	½" through		
1" minimum Wood Plank	450 lbs.	HD #14	8-12-16	1" Min.		
LWIC over Steel Form Deck	425 lbs.	XHD #15	8-12-16	3/4" through		
7/16" minimum OSB Contact IB Technical Services for prior approval and fastening schedule per project						
5/8" minimum OSB Contact IB Technical Services for prior approval and fastening schedule per project						
¹ Fasteners shall be IB Roof Systems supplied and approved for the specifics substrate / roof deck type						

²Fastening density based on 4' x 8' board size and conformance with IB required withdrawal resistance values

TABLE A.6 - STANDARD IN-SEAM MEMBRANE FASTENING SCHEDULE FOR IB MECHANICALLY ATTACHED ROOF	
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Deck Types	Fastening Rate	IB Fastener	IB Plate	Pull-Test Resistance Values		
Structural Concrete	18" o.c.	IB HD #14, CD-10 or Dekspike	2" or 2-3/8" Barbed	800 lbs.		
22 ga. Steel	18" o.c.	IB XHD #15	2-3/8" Barbed	525 lbs.		
24 ga. Steel	12" o.c.	IB XHD #15	2-3/8" Barbed	425 lbs.		
26 ga. Steel	Contact II	Contact IB Technical Services for prior project approval and fastening schedule				
16 ga. Purlins	12" o.c.	IB #12 Purlin	2-3/8" Barbed	700 lbs.		
1/2" minimum Plywood	12" o.c.	IB HD #14 or XHD #15	2" or 2-3/8" Barbed	425 lbs.		
1" minimum Wood Plank	12" o.c.	IB HD #14 or XHD #15	2" or 2-3/8" Barbed	450 lbs.		
LWIC over Steel Form Deck ¹	12" o.c.	IB XHD #15	2-3/8" Barbed	425 lbs.		
Cementitous Wood Fiber	6" o.c.	IB Deklite or Gyptec	2" Barbed Gyp Plate	300 lbs.		
Poured Gypsum	6" o.c.	IB Deklite or Gyptec	2" Barbed Gyp Plate	300 lbs.		
7/16" minimum OSB	6" o.c.	IB HD #14 or XHD #15	2" or 2-3/8" Barbed	275 lbs.		
5/8" minimum OSB	12" o.c.	IB HD #14 or XHD #15	2" or 2-3/8" Barbed	350 lbs.		

¹Requires prior written approval of IB Technical Services. Limited to existing dry Cellular LWIC fill over minimum 24 ga. Steel Form Deck with fastener penetration through the steel deck.

The above fastening guidelines are approved by IB Roof Systems for use in accordance with our current specifications and meet minimum IB installation requirements for issuance of standard published IB warranties. IB Roof Systems does not certify or assume responsibility for the design, condition, or performance of the roof deck; or its conformance to local code or IB minimum fastener withdrawal resistance requirements. Fasteners and plates must be IB labeled and approved for the specific deck type. Buildings with field of roof design wind uplift pressure above -30 psf and projects requiring IB Wind Riders may require additional fasteners and roof system securement. IB Roof Systems does not practice architecture or engineering. It is the responsibility of the designer of record, building owner or roofing contractor to determine required roof assembly wind resistance and comply with applicable project design and code requirements. Contact IB for additional information and refer to published IB roof assembly approval listings, General Requirements, Specifications and Construction Details for information on roof components and fastening rates to meet specific project design requirements.



TABLE A.7 – WIND RESISTANCE ENHANCEMENTS AT FIELD, PERIMETER, AND CORNER ZONE AREAS – STANDARD RECTANGULAR BUILDINGS WITH ROOF ANGLES 0° to ≤ 7°

ASCE 7-10	
Roof Heights ≤ 60'	Field of Roof (Zone 1): Interior area of roof, exclusive of Perimeter Zone 2 and Corner Zone 3 areas.
Roof Heights ≤ 60'	Perimeter (Zone 2): Perimeter edges of roof, extending inward from roof edge a distance of .1 x Building Width (Lesser plan dimension), or .4 x mean height of roof (whichever is less), with a minimum of 4% of least horizontal dimension or 3 feet.
Roof Heights ≤ 60'	Corner (Zone 3): Dimensions set by the width and intersection of the building's Perimeter Zones.
Roof Heights > 60'	Field of Roof (Zone 1): Interior area of roof, exclusive of Perimeter Zone 2 and Corner Zone 3 areas.
Roof Heights > 60'	Perimeter (Zone 2): Perimeter edges of roof, extending inward from roof edge a distance of .1 x Building Width (Lesser plan dimension), with a minimum of 3 feet.
Roof Heights > 60'	Corner (Zone 3): Roof heights above 60 feet require the length of the Corner Zone along each perimeter edge outward from the corner, to be multiplied by a factor of two.
ASCE 7-16	
Roof Heights ≤ 60'	Field of Roof (Zone 1'): Interior area of roof which may remain when Zones 1, 2, and 3 are present; extending inward from inside edge of Field of Roof Zone 1 Note: Not present on all buildings and roof layouts.
Roof Heights ≤ 60'	Field of Roof (Zone 1): Interior area of roof, extending inward from inside edge of Perimeter Zone 2 to a distance of .6 x Mean Height of Roof.
Roof Heights ≤ 60'	Perimeter (Zone 2): Perimeter edges of roof, extending from roof edge inward a distance of .6 x Mean Height of Roof. Roofs with continuous parapet walls 3' in height or greater may use Perimeter Zone 2 wind uplift calculations and securement within Corner Zone areas.
Roof Heights ≤ 60'	Corner (Zone 3): Corner areas are L-shaped, extending inward and along the roof edge in both directions from the corner; width equal to .2 x Mean Height of Roof and length equal to .6 x Mean Height of Roof.
Roof Heights > 60'	Field of Roof (Zone 1'): Interior area of roof which may remain when Zones 1, 2, and 3 are present; extending inward from inside edge of Field of Roof Zone 1
Roof Heights > 60'	Perimeter (Zone 2): Perimeter edges of roof, extending from roof edge inward a distance of .1 x Building Width (Lesser plan dimension) with a minimum of 3 feet.
Roof Heights > 60'	Corner (Zone3): Roof heights above 60 feet require the length of the Corner Zone along each perimeter edge outward from the corner, to be multiplied by a factor of two.



	Perimeter Zone Width		Corner Zone Length		Corner Zone Width		Prescriptiv Width	e # of Half- Sheets
Roof Height	ASCE 7-10*	ASCE 7-16	ASCE 7-10*	ASCE 7-16	ASCE 7-10*	ASCE 7-16	ASCE 7-10*	ASCE 7-16
15	6'	9'	6'	9'	6'	3'	2	3
30	12'	18'	12'	18'	12'	6'	4	6
45	18'	27'	18'	27'	18'	9'	6	9
59	24'	36'	24'	36'	24'	12'	8	12
*ASCE 7-10 allow	*ASCE 7-10 allows perimeter zone width calculation of .1 x building width (lesser plan dimension) or .4 x building height, whichever is less.							

TABLE A.9 - ALTERNATE SECUREMENT TABLE FOR PERIMETER AND CORNER ZONES							
Roof Height	Deck Type	Securement @ Roof Edge ¹	# of Half Sheets	In-Seam Attachment o.c. ²	Wind Speed ³		
≤ 15 ft	Concrete, Steel, 1/2" Plywood, Wood Plank, 5/8" OSB	12" o.c.	0	12" o.c.	IB Standard Warranty		
≤ 15 ft	CWF, GYP, 7/16" OSB	6" o.c.	0	6" o.c.			
16-30 ft	Concrete, 22 ga. Steel, 5/8" Plywood, Wood Plank, 5/8" OSB	12" o.c.	0	12" o.c.			
16-30 ft	24 ga. Steel, 1/2" Plywood, CWF, GYP, 7/16" OSB	6" o.c.	0	6" o.c.			
Roof	Dook Type	Securement @	# -611-16	In Soom	Wind Speed ³		
Height	Deck Type	Wall Base ⁴	# of Half Sheets	Attachment o.c. ²	wind Speed		
Height ≤ 15 ft	Concrete, 22 ga. Steel, Wood Plank, 5/8" Plywood	Securement @Wall Base⁴12" o.c.	Bheets	Attachment o.c. ² 12" o.c.	IB Standard Warranty		
Height ≤ 15 ft ≤ 15 ft	Concrete, 22 ga. Steel, Wood Plank, 5/8" Plywood 1/2" Plywood, 5/8" OSB	Wall Base⁴ 12" o.c. 9" o.c.	# of Half Sheets 0 0	Attachment o.c. ² 12" o.c. 9" o.c.	IB Standard Warranty		
Height ≤ 15 ft ≤ 15 ft ≤ 15 ft	Concrete, 22 ga. Steel, Wood Plank, 5/8" Plywood 1/2" Plywood, 5/8" OSB CWF, GYP, 7/16" OSB	Securement @ Wall Base⁴ 12" o.c. 9" o.c. 6" o.c.	# of Hair Sheets 0 0 0 0	Attachment o.c. ² 12" o.c. 9" o.c. 6" o.c.	IB Standard Warranty		
Height ≤ 15 ft ≤ 15 ft ≤ 15 ft 16-30 ft	Concrete, 22 ga. Steel, Wood Plank, 5/8" Plywood 1/2" Plywood, 5/8" OSB CWF, GYP, 7/16" OSB Concrete, 22 ga. Steel, 5/8" Plywood, Wood Plank, 5/8" OSB	Securement @ Wall Base⁴ 12" o.c. 9" o.c. 6" o.c. 12" o.c.	# of Hair Sheets 0 0 0 0 0 0	Attachment o.c. ² 12" o.c. 9" o.c. 6" o.c. 12" o.c.	IB Standard Warranty		
Height ≤ 15 ft ≤ 15 ft ≤ 15 ft 16-30 ft 16-30 ft	Concrete, 22 ga. Steel, Wood Plank, 5/8" Plywood 1/2" Plywood, 5/8" OSB CWF, GYP, 7/16" OSB Concrete, 22 ga. Steel, 5/8" Plywood, Wood Plank, 5/8" OSB 1/2" Plywood, 5/8" OSB	Securement @ Wall Base⁴ 12" o.c. 9" o.c. 6" o.c. 12" o.c. 9" o.c.	# of Hair Sheets 0 0 0 0 0 0 0 0 0 0	Attachment o.c. ² 12" o.c. 9" o.c. 6" o.c. 12" o.c. 9" o.c. 9" o.c.	IB Standard Warranty		

¹ Supplemental roof edge securement located behind metal drip edge and requires a minimum 12" IB Cover Strip.

² In-seam attachments and specified spacing must be in the first full width sheet in conjunction with specified perimeter edge securement. If

supplemental roof edge securement is not accomplished, then perimeter half sheets per Table A.7 must be followed. ³ Limited to buildings located in Risk Categories I and II and where basic wind speed contour does not exceed 95 mph per ASCE 7-16.

⁴ Membrane securement at parapet wall base must be in an approved roof deck per standard IB Construction Details.

TABLE A.10 - BASE AND WALL FLASHING ALLOWABLE HEIGHT						
Detail Condition	Fully Adhered	Mechanically Attached				
Base flashings: recommended minimum completed height	8"-12" above field membrane	8"-12" above field membrane				
Base and wall flashings: allowable maximum heights (without intermediate fastening rows)	60" above field membrane	18" above field membrane				



TABLE A.11 – INDUCTION WELDED WALL SUBSTRATE WITHDRAWAL RESISTANCE AND FASTENING TABLE							
Wall /	Insulation / Cover Board Type	Thickness	hickness Fastener ¹ Insulation Fastener F			Recommendations ²	
Substrate	attached to Wall			4' x 4'		4' x 8'	
Type				Perimeter	Corner	Perimeter	Corner
	IB EnergyBoard II, IB Energy Board III, or other Approved ISO	Min. 1.0" 1.9"	IB HD #14, Dekspike or CD-10	6	8	12	16
- Brick	IB EnergyBoard II, IB Energy Board III, or other Approved ISO	Min 2.0"	IB HD #14, Dekspike or CD-10	5	6	9	12
	DensDeck® Prime / DEXCell® FA Glass Mat Board	Min. 0.25"	IB HD #14, Dekspike or CD-10	6	8	12	16
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	Min. 0.25"	IB HD #14, Dekspike or CD-10	6	8	12	16
- Masonry - Structural	DensDeck® Prime / DensDeck® StormX Prime	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
- ¾" Plywood	DEXCell® FA Glass Mat Board / DEXCell® Cement Roof Board	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
	HShield HD ISO	0.50"	IB HD #14, Dekspike or CD-10	6	8	12	16
	Fastener/isoweld plates direct into approved substrate		IB HD #14, Dekspike or CD-10	5	6	9	12
- ½" Plywood - 24 ga. steel	IB EnergyBoard II, IB Energy Board III or other Approved ISO	Min. 1.0" – 1.9"	IB HD #14, Dekspike or CD-10	6	8	12	16
	IB EnergyBoard II, IB Energy Board III or other Approved ISO	Min 2.0"	IB HD #14, Dekspike or CD-10	5	6	9	12
	DensDeck® Prime / DEXCell® FA Glass Mat Board	Min. 0.25"	IB HD #14, Dekspike or CD-10	6	8	12	16
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	Min. 0.25"	IB HD #14, Dekspike or CD-10	6	8	12	16
	DensDeck® Prime / DensDeck® StormX Prime	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
	DEXCell® FA Glass Mat Board / DEXCell® Cement Roof Board	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
	Securock® UltraLight Coated Glass Mat Securock® Gypsum Fiber Roof Board	Min50"625"	IB HD #14, Dekspike or CD-10	5	6	9	12
	HShield HD ISO	0.50"	IB HD #14, Dekspike or CD-10	6	8	12	16
	Fastener/isoweld plates direct into approved substrate		IB HD #14, Dekspike or CD-10	5	6	9	12
¹ Fasteners shall be IB Roof Systems supplied and approved for the specifics substrate / roof deck type ² Fastening density based on 4' x 8' board size and conformance with IB required withdrawal resistance values							



TABLE A.12 FLASHING SECUREMENT			
Detail Condition	Fully Adhered	Mechanically Attached	
Membrane termination to roof deck or base of walls:			
Perimeter edge wood nailers and parapet walls	12" o.c.	Fasten at in-seam spacing for field of roof / Min. 12" o.c.	
Curbs, expansion joints, wood blocking, columns and similar vertical terminations in the field of roof			
Membrane termination: At pipes and small penetrations in field of roof (Less than 12" o.c. diameter)	6" o.c. / Min. of 3 fastener and plates per detail	6" o.c. / Min. of 3 fastener and plates per detail	
Membrane termination: At drains and large pipe / stack flashings in field of roof (12" o.c. diameter or greater)	12" o.c. / Min. 4 fasteners and plates per detail	Fasten at in-seam spacing for field of roof / Min. 12" o.c. (Min. 4 per detail)	
Base flashing: Top edge at walls or parapets	12" o.c.	12" o.c.	
With reglet or approved counterflashing / coping			
With termination bars	6" o.c.	6" o.c.	
Intermediate rows: at high walls	12" o.c.	Fasten at in-seam spacing for field of roof / Min. 12" o.c.	
Transitions, valleys, and tie-ins to sloped areas	12" o.c.	Fasten at in-seam spacing for field of roof / Min. 12" o.c.	
Base flashing: Top edge at field of roof curbs, wood blocking, expansion joints, and similar vertical terminations	12" o.c.	12" o.c.	
Perimeter metal eedge flashings:	Nails: 4" o.c.	Nails: 4" o.c.	
IB PVC Clad Drip Edge or IB PVC Clad Gravel Stop	Screws: 12" o.c.	Screws: 12" o.c.	
Continuous metal cleat (22 ga. Min.)	Screws: 12" o.c.	Screws: 12: o.c.	
IB Snap-Fascia	Corower 10" o o	Screws: 12" o.c.	
Anchor Tite Drip Edge	Screws: 12 O.C.		
IB Aluminum Lip Termination Bar	Screws: 6" o.c.	Screws: 6" o.c.	
Sheet metal coping with exterior cleat (inside face securement)	Screws: 24" o.c.	Screws: 24" o.c.	
¹ The above fastening schedules are minimum IB requirements wind and specific project design conditions, and/or to comply v	for standard published IB warrant vith ES-1 and applicable building c	y installations. Fastening schedules for high- odes may require supplemental increased	

fastening for compliance.



TABLE A.13 - BALLAST & PA	VER SCHEDULE FOR BUILDIN	GS	
BALLAST SCHEDULE FOR I	BUILDINGS < 15 FT IN HEIGHT ¹		
Risk Category I or II, Exposu	re B urban, suburban. Exposur	e C rural locations. No exposu	re D or coastal locations
Parapet Height	Field	Perimeter	Corner
< 36" (0.9m)	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.	#4 Ballast (Nom.1-1/2") @ 13 lbs. / sq. ft.	#4 Ballast (Nom.1-1/2") @ 13 lbs. / sq. ft.
> 36" (0.9m)	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.
BALLAST SCHEDULE FOR I	BUILDINGS > 15 FT TO < 35 FT I		
Risk Category I or II, Exposu	re B urban, suburban. Exposure	e C rural locations. No exposu	re D or coastal locations
Parapet Height	Field	Perimeter	Corner
< 36" (0.9m)	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.	#2 Ballast (Nom. 2-1/2") @ 13 lbs. / sq. ft.	#2 Ballast (Nom. 2-1/2") @ 13 lbs. / sq. ft.
> 36" (0.9m)	#4 Ballast (Nom.1-1/2") @ 10 lbs. / sq. ft.	#2 Ballast (Nom.1-1/2") @ 13 lbs. / sq. ft.	#2 Ballast (Nom.1-1/2") @ 13 lbs. / sq. ft.
BALLAST SCHEDULE FOR E	BUILDINGS > 35 FT IN HEIGHT		
	Contact IB Technical Se	ervices for prior approval	
PAVER SCHEDULE FOR BUI	LDINGS < 35 FT IN HEIGHT		
Risk Category I or II, Exposu	re B urban, suburban. Exposure	e C rural locations. No exposu	re D or coastal locations
Parapet Height	Field	Perimeter	Corner
< 36" (0.9m)	Interlocking Pavers @ 10 lbs. / sq. ft.	Interlocking Pavers @ 22 lbs. / sq. ft.	Interlocking Pavers @ 22 lbs. / sq. ft.
> 36" (0.9m)	Interlocking Pavers @ 10 lbs. / sq. ft.	Interlocking Pavers @ 10 lbs. / sq. ft.	Interlocking Pavers @ 10 lbs. / sq. ft.
PAVER SCHEDULE FOR BUI	LDINGS > 35 FT IN HEIGHT TO	60 FT IN HEIGHT	
Risk Category I or II, Exposu	re B urban, suburban. Exposure	e C rural locations. No exposu	re D or coastal locations
Parapet Height	Field	Perimeter	Corner
< 36" (0.9m)	Contact IB Technical Services for prior approval		
> 36" (0.9m)	Interlocking Pavers @ 22 lbs. / sq. ft.	Interlocking Pavers @ 22 lbs. / sq. ft.	Interlocking Pavers @ 22 lbs. / sq. ft.
PAVER SCHEDULE FOR BUI	LDINGS > 60 FT IN HEIGHT		
	Contact IB Tochnical Sc	anvices for prior approval	
		nivices for prior approval	



TABLE A.14 IB ROOF	SYSTEMS FASTSPEC ASSEMBLY SELECTION GUIDE
FastSpec Code	Description
	Mechanically Attached Roof Assemblies: Wood Decks - New or Tear Off
MA-1FS-W	MA Membrane / Fire Sheet / Wood Deck
MA-2FS-W	MA Membrane / 2 Fire Sheets / Wood Deck
MA-3FS-W	MA Membrane / 3 Fire Sheets / Wood Deck
MA-4FS-W	MA Membrane / 4 Fire Sheets / Wood Deck
MA-SS-W	MA Membrane / Separation Sheet / Wood Deck
MA-CB-W	MA Membrane / Cover Board / Wood Deck
MA-CB-IN-W	MA Membrane / Cover Board / Insulation / Wood Deck
MA-FF-W	MA Membrane / Fanfold / Wood Deck
MA-IN-W	MA Membrane / Insulation / Wood Deck
MA-IN-1FS-W	MA Membrane / Insulation / Fire Sheet / Wood Deck
MA-IN-2FS-W	MA Membrane / Insulation / 2 Fire Sheets / Wood Deck
MA-IN-VB-W	MA Membrane / Insulation / Vapor Barrier / Wood Deck
	Mechanically Attached Roof Assemblies: Wood Decks - Recover
MA-1FS-EX-W	MA Membrane / Fire Sheet / Existing Roof / Wood Deck
MA-SS-EX-W	MA Membrane / Separation Sheet / Existing Roof / Wood Deck
MA-CB-EX-W	MA Membrane / Cover Board / Existing Roof / Wood Deck
MA-CB-IN-EX-W	MA Membrane / Cover Board / Insulation / Existing Roof / Wood Deck
MA-FF-EX-W	MA Membrane / Fanfold / Existing Roof / Wood Deck
MA-IN-EX-W	MA Membrane / Insulation / Existing Roof / Wood Deck
	Mechanically Attached Roof Assemblies: Steel Decks – New or Tear Off
MA-CB-S	MA Membrane / Cover Board / Steek Deck
MA-CB-IN-S	MA Membrane / Cover Board / Insulation / Steel Deck
MA-IN-S	MA Membrane / Insulation / Steel Deck
MA-IN-VB-S	MA Membrane / Insulation / Vapor Barrier / Steel Deck
MA-CB-IN-VB-S	MA Membrane / Cover Board / Insulation / Vapor Barrier / Steel Deck
MA-IN-VB-TB-S	MA Membrane / Insulation / Vapor Barrier / Thermal Barrier / Steel Deck
MA-CB-IN-VB-TB-S	MA Membrane / Cover Board / Insulation / Vapor Barrier / Thermal Barrier / Steel Deck
	Mechanically Attached Roof Assemblies – Steel Decks – Recover
MA-1FS-EX-S	MA Membrane / Fire Sheet / Existing Roof / Steel Deck
MA-SS-EX-S	MA Membrane / Separation Sheet / Existing Roof / Steel Deck
MA-CB-EX-S	MA Membrane / Cover Board / Existing Roof / Steel Deck
MA-CB-IN-EX-S	MA Membrane / Cover Board / Insulation / Existing Roof / Steel Deck
MA-FF-EX-S	MA Membrane / Fanfold / Existing Roof / Steel Deck
MA-IN-EX-S	MA Membrane / Insulation / Existing Roof / Steel Deck
	Mechanically Attached Roof Assemblies – Metal Roof Panels – Recover
MA-CB-FL-MRpf	MA Membrane / Cover Board / Flute Filler / Metal Roof Panel
MA-IN-FL-MRpf	MA Membrane / Insulation / Flute Filler / Metal Roof Panel
Me	echanically Attached Roof Assemblies – Concrete Decks – New or Tear Off
МА-СВ-С	MA Membrane / Cover Board / Concrete Deck
MA-CB-IN-C	MA Membrane / Cover Board / Insulation / Concrete Deck
MA-FF-C	MA Membrane / Fanfold / Concrete Deck
MA-IN-C	MA Membrane / Insulation / Concrete Deck
	Mechanically Attached Roof Assemblies – Concrete Decks – Recover
MA-1FS-EX-C	MA Membrane / Fire Sheet / Existing Roof / Concrete Deck
MA-SS-EX-C	MA Membrane / Separation Sheet / Existing Roof / Concrete Deck
MA-CB-EX-C	MA Membrane / Cover Board / Existing Roof / Concrete Deck
MA-CB-IN-EX-C	MA Membrane / Cover Board / Insulation / Existing Roof / Concrete Deck
MA-FF-EX-C	MA Membrane / Fanfold / Existing Roof / Concrete Deck
MA-IN-EX-C	MA Membrane / Insulation / Existing Roof / Concrete Deck



Mechani	ically Attached Roof Assemblies – Cementitious Wood Fiber Decks – Tear Off
MA-CB-CWF	MA Membrane / Cover Board / Cementitious Wood Fiber Deck
MA-CB-IN-CWF	MA Membrane / Cover Board / Insulation / Cementitious Wood Fiber Deck
MA-FF-CWF	MA Membrane / Fanfold / Cementitious Wood Fiber Deck
MA-IN-CWF	MA Membrane / Insulation / Cementitious Wood Fiber Deck
Mechani	cally Attached Roof Assemblies – Cementitious Wood Fiber Decks – Recover
MA-1FS-EX-CWF	MA Membrane / Fire Sheet / Existing Roof / Cementitious Wood Fiber Deck
MA-SS-EX-CWF	MA Membrane / Separation Sheet / Existing Roof / Cementitious Wood Fiber Deck
MA-CB-EX-CWF	MA Membrane / Cover Board / Existing Roof / Cementitious Wood Fiber Deck
MA-CB-IN-EX-CWF	MA Membrane / Cover Board / Insulation / Existing Roof / Cementitious Wood Fiber Deck
MA-FF-EX-CWF	MA Membrane / Fanfold / Existing Roof / Cementitious Wood Fiber Deck
MA-IN-EX-CWF	MA Membrane / Insulation / Existing Roof / Cementitious Wood Fiber Deck
	Mechanically Attached Roof Assemblies – Gypsum Decks – Tear Off
MA-CB-GYP	MA Membrane / Cover Board / Gypsum Deck
MA-CB-IN-GYP	MA Membrane / Cover Board / Insulation / Gypsum Deck
MA-FF-GYP	MA Membrane / Fanfold / Gypsum Deck
MA-IN-GYP	MA Membrane / Insulation / Gypsum Deck
	Mechanically Attached Roof Assemblies – Gypsum Decks – Recover
MA-1FS-EX-GYP	MA Membrane / Fire Sheet / Existing Roof / Gypsum Deck
MA-SS-EX-GYP	MA Membrane / Separation Sheet / Existing Roof / Gypsum Deck
MA-CB-EX-GYP	MA Membrane / Cover Board / Existing Roof / Gypsum Deck
MA-CB-IN-EX-GYP	MA Membrane / Cover Board / Insulation / Existing Roof / Gypsum Deck
MA-FF-EX-GYP	MA Membrane / Fanfold / Existing Roof / Gypsum Deck
MA-IN-EX-GYP	MA Membrane / Insulation / Existing Roof / Gypsum Deck
Mechanical	ly Attached Roof Assemblies – Lightweight Insulating Concrete Decks – Tear Off
MA-CB-LWIC	MA Membrane / Cover Board / Lightweight Insulating Concrete Deck
MA-CB-IN-LWIC	MA Membrane / Cover Board / Insulation / Lightweight Insulating Concrete Deck
MA-FF-LWIC	MA Membrane / Fanfold / Lightweight Insulating Concrete Deck
MA-IN-LWIC	MA Membrane / Insulation / Lightweight Insulating Concrete Deck
Mechanical	ly Attached Roof Assemblies – Lightweight Insulating Concrete Decks – Recover
MA-1FS-EX-LWIC	MA Membrane / Fire Sheet / Existing Roof / Lightweight Insulating Concrete Deck
MA-SS-EX-LWIC	MA Membrane / Separation Sheet / Existing Roof / Lightweight Insulating Concrete Deck
MA-CB-EX-LWIC	MA Membrane / Cover Board / Existing Roof / Lightweight Insulating Concrete Deck
MA-CB-IN-EX-LWIC	MA Membrane / Cover Board / Insulation / Existing Roof / Lightweight Insulating Concrete Deck
MA-FF-EX-LWIC	MA Membrane / Fanfold / Existing Roof / Lightweight Insulating Concrete Deck
MA-IN-EX-LWIC	MA Membrane / Insulation / Existing Roof / Lightweight Insulating Concrete Deck
	Fully Adhered Roof Assemblies – Wood Deck – New or Tear Off
FA-CB ^{MA} -W	FA Membrane / Cover Board ^(MA) / Wood Deck
FA-CB ^{RB} -W	FA Membrane / Cover Board ^(RB) / Wood Deck
FA-CB ^{MA} -IN ^{MA} -W	FA Membrane / Cover Board ^(MA) / Insulation ^(MA) / Wood Deck
FA-CB ^{RB} -IN ^{MA} -W	FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Wood Deck
FA-CB ^{RB} -IN ^{RB} -W	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Wood Deck
FA-CB ^{RB} -IN ^{MA} -VB-W	FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Vapor Barrier / Wood Deck
FA-IN ^{MA} -W	FA Membrane / Insulation ^(MA) / Wood Deck
FA-IN ^{RB} -W	FA Membrane / Insulation ^(RB) / Wood Deck
FA-IN ^{MA} -VB-W	FA Membrane / Insulation ^(MA) / Vapor Barrier / Wood Deck
Fully A	dhered (Spatter Adhesive) Roof Assemblies – Wood Deck – New or Tear Off
FA ^{SP} -CB ^{MA} -W	FA(SP) Membrane / Cover Board(MA) / Wood Deck
FA ^{SP} -CB ^{RB} -W	FA(SP) Membrane / Cover Board(RB) / Wood Deck
FA ^{SP} -CB ^{MA} -IN ^{MA} -W	FA(SP) Membrane / Cover Board(MA) / Insulation(MA) / Wood Deck
FA ^{SP} -CB ^{RB} -IN ^{MA} -W	FA(SP) Membrane / Cover Board(RB) / Insulation(MA) / Wood Deck
FA ^{SP} -CB ^{RB} -IN ^{RB} -W	FA(SP) Membrane / Cover Board(RB) / Insulation(RB) / Wood Deck
FA ^{SP} -CB ^{RB} -IN ^{MA} -VB-W	FA(SP) Membrane / Cover Board(RB) / Insulation(MA) / Vapor Barrier / Wood Deck
FA ^{SP} -IN ^{MA} -W	FA(SP) Membrane / Insulation(MA) / Wood Deck
FA ^{SP} -IN ^{RB} -W	FA(SP) Membrane / Insulation(RB) / Wood Deck
FA ^{SP} -IN ^{MA} -VB-W	FA(SP) Membrane / Insulation(MA) / Vapor Barrier / Wood Deck

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Fully Adhered Roof Assemblies – Wood Decks – Recover			
FA-CB ^{MA} -EX-W	FA Membrane / Cover Board ^(MA) / Existing Roof / Wood Deck		
FA-CB ^{RB} -EX-W	FA Membrane / Cover Board ^(RB) / Existing Roof / Wood Deck		
FA-CB ^{MA} -IN ^{MA} -EX-W	FA Membrane / Cover Board ^(MA) / Insulation ^(MA) / Existing Roof / Wood Deck		
FA-CB ^{RB} -IN ^{MA} -EX-W	FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Existing Roof / Wood Deck		
FA-CB ^{RB} -IN ^{RB} -EX-W	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Wood Deck		
FA-IN ^{MA} -EX-W	FA Membrane / Insulation ^(RB) / Existing Roof / Wood Deck		
FA-IN ^{RB} -EX-W	FA Membrane / Insulation ^(RB) / Existing Roof / Wood Deck		
Fully	/ Adhered (Spatter Adhesive) Roof Assemblies – Wood Decks – Recover		
FA ^{SP} -CB ^{MA} -EX-W	FA ^(SP) Membrane / Cover Board ^(MA) / Existing Roof / Wood Deck		
FA ^{SP} -CB ^{RB} -EX-W	FA ^(SP) Membrane / Cover Board ^(RB) / Existing Roof / Wood Deck		
FA ^{SP} -CB ^{MA} -IN ^{MA} -EX-W	FA ^(SP) Membrane / Cover Board ^(MA) / Insulation ^(MA) / Existing Roof / Wood Deck		
FA ^{SP} -CB ^{RB} -IN ^{MA} -EX-W	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(MA) / Existing Roof / Wood Deck		
FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-W	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Wood Deck		
FA ^{SP} -IN ^{MA} -EX-W	FA ^(SP) Membrane / Insulation ^(RB) / Existing Roof / Wood Deck		
FA ^{SP} -IN ^{RB} -EX-W	FA ^(SP) Membrane / Insulation ^(RB) / Existing Roof / Wood Deck		
FA ^{SP} -EX ^{MB} -W	FA ^(SP) Membrane / Existing Roof ^(MB) / Wood Deck		
FA ^{SP} -EX ^{SA} -W	FA ^(SP) Membrane / Existing Roof ^(SA) / Wood Deck		
	Fully Adhered Roof Assemblies – Steel Decks – New or Tear Off		
FA-CB ^{MA} -S	FA Membrane / Cover Board ^(MA) / Steel Deck		
FA-CB ^{MA} -IN ^{MA} -S	FA Membrane / Cover Board ^(MA) / Insulation(^{MA)} / Steel Deck		
FA-CB ^{RB} -IN ^{MA} -S	FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck		
FA-IN ^{MA} -S	FA Membrane / Insulation ^(MA) / Steel Deck		
FA-IN ^{RB} -IN ^{MA} -S	FA Membrane / Insulation ^(RB) / Insulation ^(MA) / Steel Deck		
FA-CB ^{RB} -IN ^{RB} -VB-TB ^{MA} -S	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck		
FA-IN ^{MA} -VB-S	FA Membrane / Insulation ^(MA) / Vapor Barrier / Steel Deck		
FA-IN ^{RB} -IN ^{MA} -VB-S	FA Membrane / Insulation ^(RB) / Insulation ^(MA) / Vapor Barrier / Steel Deck		
FA-IN ^{RB} -VB-TB ^{MA} -S	FA Membrane / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck		
Fully Ac	dhered (Spatter Adhesive) Roof Assemblies – Steel Decks – New or Tear Off		
FA ^{SP} -CB ^{MA} -S	FA ^(SP) Membrane / Cover Board ^(MA) / Steel Deck		
FA ^{SP} -CB ^{MA} -IN ^{MA} -S	FA ^(SP) Membrane / Cover Board ^(MA) / Insulation ^(MA) / Steel Deck		
FA ^{SP} -CB ^{RB} -IN ^{MA} -S	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck		
FA ^{SP} -IN ^{MA} -S	FA ^(SP) Membrane / Insulation ^(MA) / Steel Deck		
FA ^{SP} -IN ^{RB} -IN ^{MA} -S	FA ^(SP) Membrane / Insulation ^(RB) / Insulation ^(MA) / Steel Deck		
FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-TB ^{MA} -S	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck		
FA ^{SP} -IN ^{MA} -VB-S	FA ^(SP) Membrane / Insulation ^(MA) / Vapor Barrier / Steel Deck		
FA ^{SP} -IN ^{RB} -IN ^{MA} -VB-S	FA ^(SP) Membrane / Insulation ^(RB) / Insulation ^(MA) / Vapor Barrier / Steel Deck		
FA ^{SP} -IN ^{RB} -VB-TB ^{MA} -S	FA ^(SP) Membrane / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck		
Fully Adhered Roof Assemblies – Steel Decks – Recover			
FA-CB ^{MA} -EX-S	FA Membrane / Cover Board ^(MA) / Existing Roof / Steel Deck		
FA-CB ^{RB} -EX-S	FA Membrane / Cover Board ^(RB) / Existing Roof / Steel Deck		
FA-CB ^{MA} -IN ^{MA} -EX-S	FA Membrane / Cover Board ^(MA) / Insulation ^(MA) / Existing Roof / Steel Deck		
FA-CB ^{RB} -IN ^{MA} -EX-S	FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Existing Roof / Steel Deck		
FA-CB ^{RB} -IN ^{RB} -EX-S	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Steel Deck		
FA-IN ^{MA} -EX-S	FA Membrane / Insulation ^(MA) / Existing Roof / Steel Deck		
FA-IN ^{RB} -EX-S	FA Membrane / Insulation ^(RB) / Existing Roof / Steel Deck		
Full	y Adhered (Spatter Adhesive) Roof Assemblies – Steel Decks – Recover		
FA ^{SP} -CB ^{RB} -EX-S	FA ^(SP) Membrane / Cover Board ^(RB) / Existing Roof / Steel Deck		
FASP-CBRB-INRB-EX-S	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Steel Deck		
FA ^{SP} -IN ^{RB} -EX-S	FA ^(SP) Membrane / Insulation ^(RB) / Existing Roof / Steel Deck		
FA ^{SP} -EX ^{MB} -S	FA ^(SP) Membrane / Existing Roof ^(MB) / Steel Deck		
FA ^{SP} -EX ^{SA} -S	FA ^(SP) Membrane / Existing Roof ^(SA) / Steel Deck		



FA-CBMA-C FA Membrane / Cover Board ^(MA) / Concrete Deck FA-CBRB-C FA Membrane / Cover Board ^(RB) / Concrete Deck FA-CBMA-INMA-C FA Membrane / Cover Board ^(MA) / Insulation(MA) / Concrete Deck FA-CBRB-INRB-C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-CBRB-INRB-C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-INMA-C FA Membrane / Insulation ^(RB) / Concrete Deck
FA-CB ^{RB} -C FA Membrane / Cover Board ^(RB) / Concrete Deck FA-CB ^{MA} -IN ^{MA} -C FA Membrane / Cover Board ^(MA) / Insulation(MA) / Concrete Deck FA-CB ^{RB} -IN ^{RB} -C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-IN ^{MA} -C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-IN ^{MA} -C FA Membrane / Insulation ^(MA) / Concrete Deck
FA-CB ^{MA} -IN ^{MA} -C FA Membrane / Cover Board ^(MA) / Insulation(MA) / Concrete Deck FA-CB ^{RB} -IN ^{RB} -C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-IN ^{MA} -C FA Membrane / Insulation ^(MA) / Concrete Deck
FA-CB ^{RB} -IN ^{RB} -C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck FA-IN ^{MA} -C FA Membrane / Insulation ^(MA) / Concrete Deck
FA-IN ^{MA} -C FA Membrane / Insulation ^(MA) / Concrete Deck
FA-IN ^{RB} -C FA Membrane / Insulation ^(RB) / Concrete Deck
FA-IN ^{RB} -IN ^{RB} -C FA Membrane / Insulation ^(RB) / Insulation ^(RB) / Concrete Deck
FA-CB ^{RB} -IN ^{RB} -VB-C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete Deck
FA-IN ^{RB} -VB-C FA Membrane / Insulation ^(RB) / Vapor Barrier / Concrete Deck
Fully Adhered (Spatter Adhesive) Roof Assemblies – Concrete Decks – New or Tear Off
FA ^{SP} -CB ^{RB} -C FA ^(SP) Membrane / Cover Board ^(RB) / Concrete Deck
FA ^{SP} -CB ^{RB} -IN ^{RB} -C FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck
FA ^{SP} -IN ^{RB} -C FA ^(SP) Membrane / Insulation ^(RB) / Concrete Deck
FA ^{SP} -IN ^{RB} -C FA ^(SP) Membrane / Insulation ^(RB) / Insulation ^(RB) / Concrete Deck
FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-C FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete Deck
FA ^{SP} -IN ^{RB} -VB-C FA ^(SP) Membrane / Insulation ^(RB) / Vapor Barrier / Concrete Deck
FA ^{SP} -C FA ^(SP) Membrane / Concrete Deck
Fully Adhered Roof Assemblies – Concrete Decks – Recover
FA-CB ^{MA} -EX-C FA Membrane / Cover Board ^(MA) / Existing Roof / Concrete Deck
FA-CB ^{RB} -EX-C FA Membrane / Cover Board ^(RB) / Existing Roof / Concrete Deck
FA-CBRB-INRB-EX-C FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Concrete Deck
FA-IN ^{MA} -EX-C FA Membrane / Insulation ^(MA) / Existing Roof / Concrete Deck
FA-IN ^{RB} -EX-C FA Membrane / Insulation ^(RB) / Existing Roof / Concrete Deck
Fully Adhered (Spatter Adhesive) Roof Assemblies – Concrete Decks – Recover
FA ^{sp} -CB ^{RB} -EX-C FA ^(SP) Membrane / Cover Board ^(RB) / Existing Roof / Concrete Deck
FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-C FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Concrete Deck
FA ^{SP} -IN ^{RB} -EX-C FA ^(SP) Membrane / Insulation ^(RB) / Existing Roof / Concrete Deck
FA ^{sp} -EX ^{MB} -C FA ^(sp) Membrane / Existing Roof ^(MB) / Concrete Deck
FA ^{sp} -EX ^{sa} -C FA ^(sp) Membrane / Existing Roof ^(sa) / Concrete Deck
Fully Adhered Roof Assemblies – Cementitious Wood Fiber Decks – Tear Off
[FA-CB ^{Ma} -CWF [FA Membrane / Cover Board ^(MA) / Cementitious Wood Fiber Deck
FA-CBRB-CWF FA Membrane / Cover Board ^(RB) / Cementitious Wood Fiber Deck
[FA-CB ^{RB} -IN ^{RB} -CWF [FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Cementitious Wood Fiber Deck
[FA-INMa-CWF [FA Membrane / Insulation ^(MA) / Cementitious Wood Fiber Deck
[FA-IN ^{kB} -CWF [FA Membrane / Insulation ^(kB) / Cementitious Wood Fiber Deck
FA-IN RD -IN RD -CWF JFA Membrane / Insulation ^(RD) / Insulation ^(RD) / Cementitious Wood Fiber Deck
Fully Adhered (Spatter Adhesive) Roof Assemblies – Cementitious Wood Fiber Decks – Tear Off
[FAST-CBR0-CWF [FAST-Membrane / Cover Board ^(ND) / Cementitious Wood Fiber Deck [FAST-CBR0-CWF [FAST-Membrane / Cover Board ^(ND) / Cementitious Wood Fiber Deck
FASE UNRE COVE FASE (SP) Membrane / Cover Board(No/ / Insulation(No/ / Cementitious Wood Fiber Deck
FAST-INRO-CWF FAST-INRO-CWF FAST-INRO-CWF FAST-INRO-CWF
FA ST -IN ^{NO} -IN ^{NO} -CWF [FA ST /Membrane / Insulation ^{NO} / Insulation ^{NO} / Cementitious Wood Fiber Deck
Fully Adhered Roof Assemblies – Cementitious wood Fiber Decks – Recover
FA-CD ^{IIII} - EX-CWF FA Membrane / Cover Board ^(RB) / Existing Roof / Cementitious Wood Fiber Deck
FA-CB ^{IS} -EX-CVVF FA Membrane / Cover Board ^(RB) / Existing Roof / Cementitious Wood Fiber Deck
[FA-CB ^(a) -IN ^(a) -EX-CWF [FA Membrane / Cover Board ^(a) / Insulation ^(a) / Existing Root / Cementitieus Mood Fiber Deck [FA INMA EX CM/E [FA Membrane / Insulation ^(Ma) / Existing Root / Cementitieus Mood Fiber Deck
FA-IN ^{MA-} EX-CWF FA Membrane / Insulation ^(MA)) / Existing Roof / Cementitious Wood Fiber Deck FA IN ^{RB} EX CIA/E FA Membrane / Insulation ^(MB)) / Existing Roof / Cementitious Wood Fiber Deck
FA-INTEA-OWF JFA INTERDITION / Insulation / Existing Root / Cementitious Wood Fiber Deck Fully Adhered (Spatter Adherive) Poof Assemblics Comentitieus Wood Fiber Deck
EASP CRRB EX CW/E EA(SP) Membrane / Cover Poord(RB) / Evisting Poof / Compatitious Wood Fiber Deck
EASP CERB INIRB EX CIVIE EASP) Mombrano / Cover Board(RB) / Insulation(RB) / Evisting Boof / Compatitious Wood Fiber Dock
EASP INRE EX CWE EAS(SP) Mombrane / Insulation(RB) / Existing Roof / Compartitions Wood Fiber Deck
EASP EXMB CW/E EA(SP) Membrane / Existing Roof(MB) / Compartitious Wood Fiber Deck
FA ^{SP} -FX ^{SA} -CWF FA ^(SP) Membrane / Existing Roof ^(SA) / Cementitious Wood Fiber Deck



Fully Adhered Roof Assemblies – Gypsum Decks – Tear Off		
FA-CB ^{MA} -GYP	FA Membrane / Cover Board ^(MA) / Gypsum Deck	
FA-CB ^{RB} -GYP	FA Membrane / Cover Board ^(RB) / Gypsum Deck	
FA-CB ^{RB} -IN ^{RB} -GYP	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Gypsum Deck	
FA-IN ^{™A} -GYP	FA Membrane / Insulation ^(MA) / Gypsum Deck	
FA-IN ^{RB} -GYP	FA Membrane / Insulation ^(RB) / Gypsum Deck	
FA-IN ^{RB} -IN ^{RB} -GYP	FA Membrane / Insulation ^(RB) / Insulation ^(RB) / Gypsum Deck	
Fully	Adhered (Spatter Adhesive) Roof Assemblies – Gypsum Decks – Tear Off	
FA ^{SP} -CB ^{RB} -GYP	FA ^(SP) Membrane / Cover Board ^(RB) / Gypsum Deck	
FA ^{SP} -CB ^{RB} -IN ^{RB} -GYP	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Gypsum Deck	
FA ^{SP} -IN ^{RB} -GYP	FA ^(SP) Membrane / Insulation ^(RB) / Gypsum Deck	
FA ^{SP} -IN ^{RB} -IN ^{RB} -GYP	FA ^(SP) Membrane / Insulation ^(RB) / Insulation ^(RB) / Gypsum Deck	
	Fully Adhered Roof Assemblies – Gypsum Decks – Recover	
FA-CB ^{MA} -EX-GYP	FA Membrane / Cover Board ^(MA) / Existing Roof / Gypsum Deck	
FA-CB ^{RB} -EX-GYP	FA Membrane / Cover Board ^(RB) / Existing Roof / Gypsum Deck	
FA-CB ^{RB} -IN ^{RB} -EX-GYP	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Gypsum Deck	
FA-IN [™] -EX-GYP	FA Membrane / Insulation ^(MA) / Existing Roof / Gypsum Deck	
FA-IN ^{RB} -EX-GYP	FA Membrane / Insulation ^(RB) / Existing Roof / Gypsum Deck	
Fully	Adhered (Spatter Adhesive) Roof Assemblies – Gypsum Decks – Recover	
FA ^{SP} -CB ^{RB} -EX-GYP	FA ^(SP) Membrane / Cover Board ^(RB) / Existing Roof / Gypsum Deck	
FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-GYP	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Gypsum Deck	
FA ^{SP} -IN ^{RB} -EX-GYP	FA ^(SP) Membrane / Insulation ^(RB) / Existing Roof / Gypsum Deck	
FA ^{sp} -EX [™] -GYP	FA ^(SP) Membrane / Existing Roof ^(MB) / Gypsum Deck	
FA ^{SP} -EX ^{SA} -GYP	FA ^(SP) Membrane / Existing Roof ^(SA) / Gypsum Deck	
Full Adhered (Spatter Ad	hesive) Roof Assemblies – Lightweight Insulating Concrete – Concrete & Steel Decks – New	
FA ^{SP} -LWIC-C	FA ^(SP) Membrane / Lightweight Insulating Concrete / Concrete Deck	
FA ^{SP} -LWIC-S	FA ^(SP) Membrane / Lightweight Insulating Concrete / Steel Deck	
Fully	Adhered Roof Assemblies – Lightweight Insulating Concrete – Tear Off	
FA-CB ^{MA} -LWIC	FA Membrane / Cover Board ^(MA) / Lightweight Insulating Concrete	
FA-CB ^{RB} -LWIC	FA Membrane / Cover Board ^(RB) / Lightweight Insulating Concrete	
FA-CB ^{MA} -IN ^{MA} -LWIC	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Lightweight Insulating Concrete	
FA-CB ^{RB} -IN ^{RB} -LWIC	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Lightweight Insulating Concrete	
FA-IN ^{MA} -LWIC	FA Membrane / Insulation ^(MA) / Lightweight Insulating Concrete	
FA-IN ^{RB} -LWIC	FA Membrane / Insulation ^(RB) / Lightweight Insulating Concrete	
FA-IN ^{RB} -IN ^{RB} -LWIC	FA Membrane / Insulation ^(RB) / Insulation ^(RB) / Lightweight Insulating Concrete	
Fully Adhered	Roof Assemblies (Spatter Adhesive) – Lightweight Insulating Concrete – Tear Off	
FA ^{SP} -CB ^{RB} -LWIC	FA ^(SP) Membrane / Cover Board ^(RB) / Lightweight Insulating Concrete	
FA ^{SP} -CB ^{RB} -IN ^{RB} -LWIC	FA ^(SP) Membrane / Cover Board ^(RB) / Insulation ^(RB) / Lightweight Insulating Concrete	
FA ^{SP} -IN ^{RB} -LWIC	FA ^(SP) Membrane / Insulation ^(RB) / Lightweight Insulating Concrete	
FA ^{SP} -IN ^{RB} -IN ^{RB} -LWIC	FA ^(SP) Membrane / Insulation ^(RB) / Insulation ^(RB) / Lightweight Insulating Concrete	
FA ^{SP} -LWIC-C	FA ^(SP) Membrane / Lightweight Insulating Concrete / Concrete Deck	
FA ^{SP} -LWIC-S	FA ^(SP) Membrane / Lightweight Insulating Concrete / Steel Deck	
Fully	Adhered Roof Assemblies – Lightweight Insulating Concrete – Recover	
FA-CB ^{MA} -EX-LWIC	FA Membrane / Cover Board ^(MA) / Existing Roof / Lightweight Insulating Concrete	
FA-CB ^{RB} -EX-LWIC	FA Membrane / Cover Board ^(RB) / Existing Roof / Lightweight Insulating Concrete	
FA-CB ^{MA} -IN ^{MA} -EX-LWIC	FA Membrane / Cover Board ^(MA) / Insulation ^(MA) / Existing Roof / Lightweight Insulating Concrete	
FA-CB ^{RB} -IN ^{RB} -EX-LWIC	FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Lightweight Insulating Concrete	
FA-IN ^{MA} -EX-LWIC	FA Membrane / Insulation ^(MA) / Existing Roof / Lightweight Insulating Concrete	
FA-IN ^{RB} -EX-LWIC	FA Membrane / Insulation ^(RB) / Existing Roof / Lightweight Insulating Concrete	
Fully	Adhered Roof Assemblies – Lightweight Insulating Concrete – Recover	
FA ^{SP} -CB ^{RB} -EX-LWIC	FA Membrane ^(SP) / Cover Board ^(RB) / Existing Roof / Lightweight Insulating Concrete	
FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-LWIC	FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Lightweight Insulating Concrete	
FA ^{SP} -IN ^{RB} -EX-LWIC	FA Membrane ^(SP) / Insulation ^(RB) / Existing Roof / Lightweight Insulating Concrete	
FA ^{SP} -EX ^{MB} -LWIC	FA Membrane ^(SP) / Existing Roof ^(MB) / Lightweight Insulating Concrete	
FA ^{SP} -EX ^{SA} -LWIC	FA Membrane ^(SP) / Existing Roof ^(SA) / Lightweight Insulating Concrete	



Flexible M	etal Profile – Fully Adhered Roof Assemblies – Wood Decks – New or Tear Off	
MP-FA-CB ^{RB} -IN ^{MA} -W	Metal Profile over FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Wood Deck	
MP-FA-CB ^{RB} -IN ^{RB} -W	Metal Profile over FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Wood Deck	
	Metal Profile over FA Membrane / Insulation ^(RB) / Insulation ^(MA) / Wood Deck	
MP-EA-IN ^{RB} -IN ^{RB} -W	Metal Profile over FA Membrane / Insulation ^(RB) / Insulation ^(RB) / Wood Deck	
Flexible M	letal Profile – Fully Adhered Roof Assemblies – Steel Decks – New or Tear Off	
MP-FA-CB ^{RB} -IN ^{MA} -S	Metal Profile over FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck	
MP-FA-IN ^{RB} -IN ^{MA} -S	Metal Profile over FA Membrane / Insulation ^(RB) / Insulation ^(MA) / Steel Deck	
Flexible Me	tal Profile – Fully Adhered Roof Assemblies – Concrete Decks – New or Tear Off	
MP-FA-CB ^{RB} -IN ^{RB} -C	Metal Profile over FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck	
MP-FA-IN ^{RB} -IN ^{RB} -C	Metal Profile over FA Membrane / Insulation ^(RB) / Insulation ^(RB) / Concrete Deck	
	Induction Weld Roof Assemblies – Wood Decks – New or Tear Off	
IW-CB-W	IW Membrane / Cover Board / Wood Deck	
IW-CB-IN-W	IW Membrane / Cover Board / Insulation / Wood Deck	
IW-IN-W	IW Membrane / Insulation / Wood Deck	
IW-IN-1FS-W	IW Membrane / Insulation / Fire Sheet / Wood Deck	
IW-IN-2FS-W	IW Membrane / Insulation / 2 Fire Sheets / Wood Deck	
Indu	uction Weld Roof Assemblies – Wood Joists Attached – New or Tear Off	
IW-CB-WJ	IW Membrane / Cover Board / Wood Joist	
IW-CB-IN-WJ	IW Membrane / Cover Board / Insulation / Wood Joist	
IW-IN-WJ	IW Membrane / Insulation / Wood Joist	
IW-IN-1FS-WJ	IW Membrane / Insulation / Fire Sheet / Wood Joist	
IW-IN-2FS-WJ	IW Membrane / Insulation / 2 Fire Sheets / Wood Joist	
	Induction Weld Roof Assemblies: Wood Decks - Recover	
IW-CB-EX-W	IW Membrane / Cover Board / Existing Roof / Wood Deck	
IW-CB-IN-EX-W	IW Membrane / Cover Board / Insulation / Existing Roof / Wood Deck	
IW-IN-EX-W	IW Membrane / Insulation / Existing Roof / Wood Deck	
MA-IN-1FS-EX-W	MA Membrane / Insulation / Fire Sheet / Existing Roof / Wood Deck	
	Induction Weld Roof Assemblies: Wood Joists - Recover	
IW-CB-EX-WJ	IW Membrane / Cover Board / Existing Roof / Wood Joist	
IW-CB-IN-EX-WJ	IW Membrane / Cover Board / Insulation / Existing Roof / Wood Joist	
IW-IN-EX-WJ	IW Membrane / Insulation / Existing Roof / Wood Joist	
MA-IN-1FS-EX-WJ	MA Membrane / Insulation / Fire Sheet / Existing Roof / Wood Joist	
	Induction Weld Roof Assemblies – Steel Decks – New or Tear Off	
IW-CB-S	IW Membrane / Cover Board / Steel Deck	
IW-CB-IN-S	IW Membrane / Cover Board / Insulation / Steel Deck	
IW-IN-S	IW Membrane / Insulation / Steel Deck	
	Induction Weld Roof Assemblies – Steel Decks – Recover	
IW-CB-EX-S	IW Membrane / Cover Board / Existing Roof / Steel Deck	
IW-CB-IN-EX-S	IW Membrane / Cover Board / Insulation / Existing Roof / Steel Deck	
IW-IN-EX-S	IW Membrane / Insulation / Existing Roof / Steel Deck	
Induction Weld Roof Assemblies – Metal Roof Panels – Recover		
IW-CB-FL-MRpf	IW Membrane / Cover Board / Flute Filler / Metal Roof Panel	
IW-IN-FL-MRpf	IW Membrane / Insulation / Flute Filler / Metal Roof Panel	
	nduction Weld Roof Assemblies – Concrete Decks – New or Tear Off	
IW-CB-C	IW Membrane / Cover Board / Concrete Deck	
IW-CB-IN-C	IW Membrane / Cover Board / Insulation / Concrete Deck	
IW-IN-C	IW Membrane / Insulation / Concrete Deck	
	Induction Weld Roof Assemblies – Concrete Decks – Recover	
IW-CB-EX-C	IW Membrane / Cover Board / Existing Roof / Concrete Deck	
IW-CB-IN-EX-C	IW Membrane / Cover Board / Insulation / Existing Roof / Concrete Deck	
IW-IN-EX-C	IW Membrane / Insulation / Existing Roof / Concrete Deck	
Inductio	n Weld Roof Assemblies – Lightweight Insulating Concrete Decks – Tear Off	
IW-CB-LWIC	IW Membrane / Cover Board / Lightweight Insulating Concrete	
IW-CB-IN-LWIC	IW Membrane / Cover Board / Insulation / Lightweight Insulating Concrete	

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IW-IN-LWIC	IW Membrane / Insulation / Lightweight Insulating Concrete
Induction	Weld Roof Assemblies – Lightweight Insulating Concrete Decks – Recover
IW-CB-EX-LWIC	IW Membrane / Cover Board / Existing Roof / Lightweight Insulating Concrete
IW-CB-IN-EX-LWIC	IW Membrane / Cover Board / Insulation / Existing Roof / Lightweight Insulating Concrete
IW-IN-EX-LWIC	IW Membrane / Insulation / Existing Roof / Lightweight Insulating Concrete
Ove	rburden (Stone Ballast) – Loose Laid Roof Assemblies – Wood Deck
BA-IN ^{LL} -W	Ballasted Membrane / Insulation ^(LL) / Structural Wood Deck
Ove	erburden (Stone Ballast) – Loose Laid Roof Assemblies – Steel Deck
BA-IN ^{⊥⊥} -S	Ballasted Membrane / Insulation ^(LL) / Steel Deck
BA-IN ^{⊥⊥} -VB-S	Ballasted Membrane / Insulation ^(LL) / Vapor Barrier / Steel Deck
BA-IN ^{⊥⊥} -VB-TB ^{MA} -S	Ballasted Membrane / Insulation ^(LL) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck
Overburg	den (Stone Ballast) – Loose Laid Roof Assemblies – Steel Deck - Recover
BA-IN ^{⊥⊥} -FX-S	Ballasted Membrane / Insulation ^(LL) / Existing Roof / Steel Deck
Overh	purden (Stone Ballast) – Loose Laid Roof Assemblies – Concrete Deck
BA-IN ^{⊥⊥} -C	Ballasted Membrane / Insulation ^(LL) / Concrete Deck
BA-IN ^{LL} -VB-C	Ballasted Membrane / Insulation ^(LL) / Vanor Barrier / Concrete Deck
Overburde	n (Stone Ballast) – Loose Laid Roof Assemblies – Concrete Deck - Recover
	Ballasted Membrane / Insulation ^(LL) / Existing Roof / Concrete Deck
	arburden (Paver System) – Adhered Boof Assemblies – Wood Dock
	Power Bellested / EA Membrane / Cover Beard(BB) / Structurel Wood Deck
	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Inculation(MA) / Structural Wood Deck
	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Structural Wood Deck
PB-FA-CB ^{ro} -IN ^{ro} -W	Paver Ballasted / FA Membrane / Cover Board ^(w) / Insulation ^(w) / Structural Wood Deck
	Irden (Paver System) – Spatter Adhered Roof Assemblies – Wood Deck
	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Structural Wood Deck
PB-FA ^{SP} -CB ^{RB} -INMA-W	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(MA) / Structural Wood Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -W	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Structural Wood Deck
Ov	verburden (Paver System) – Adhered Roof Assemblies – Steel Deck
PB-FA-CB ^{RB} -IN ^{MA} -S	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck
PB-FA-CB ^{RB} -IN ^{MA} -VB-S	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Vapor Barrier / Steel Deck
PB-FA-CB ^{RB} -IN ^{RB} -VB-TB ^{MA} -S	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal
	Barrier ^(MA) / Steel Deck
Overb	urden (Paver System) – Spatter Adhered Roof Assemblies – Steel Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{MA} -S	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{MA} -VB-S	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB)) / Insulation ^(MA) / Vapor Barrier / Steel Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-TB ^{MA} -S	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal
	Barrier ^(MA) / Steel Deck
Overbu	rden (Paver System) – Adhered Roof Assemblies – Steel Deck - Recover
PB-FA-CB ^{RB} -EX-S	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Existing Roof / Steel Deck
PB-FA-CB ^{RB} -IN ^{RB} -EX-S	Paver Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Steel Deck
Overburden	n (Paver System) – Spatter Adhered Roof Assemblies – Steel Deck - Recover
PB-FA ^{SP} -CB ^{RB} -EX-S	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Existing Roof / Steel Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-S	Paver Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Existing Roof / Steel Deck
Over	burden (Paver System) – Adhered Roof Assemblies – Concrete Deck
PB-FA-CB ^{RB} -C	Pavers Ballasted / FA Membrane / Cover Board ^(RB) / Concrete Deck
PB-FA-CB ^{RB} -IN ^{RB} -C	Pavers Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck
PB-FA-CB ^{RB} -IN ^{RB} -VB-C	Pavers Ballasted / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete Deck
Overburg	den (Paver System) – Spatter Adhered Roof Assemblies – Concrete Deck
PB-FA ^{SP} -CB ^{RB} -C	Pavers Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Concrete Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -C	Pavers Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-C	Pavers Ballasted / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete
	Deck
Overburd	en (Paver System) – Adhered Roof Assemblies – Concrete Deck - Recover
PB-FA-CB ^{RB} -EX-C	Pavers Ballasted / FA Membrane / Cover Board ^{RB)} / Existing Roof / Concrete Deck
PB-FA-CB ^{RB} -IN ^{RB} -EX-C	Pavers Ballasted / FA Membrane / Cover Board ^{RB)} / Insulation ^(RB) / Existing Roof / Concrete Deck
Overburden (Paver System) – Spatter Adhered Roof Assemblies – Concrete Deck - Recover



PB-FA ^{SP} -CB ^{RB} -EX-C	Pavers Ballasted / FA Membrane ^(SP) / Cover Board ^{RB)} / Existing Roof / Concrete Deck	
PB-FA ^{SP} -CB ^{RB} -IN ^{RB} -EX-C	Pavers Ballasted / FA Membrane ^(SP) / Cover Board ^{RB)} / Insulation ^(RB) / Existing Roof / Concrete Deck	
C	verburden (Vegetative) – Adhered Roof Assemblies – Wood Deck	
VGA-FA-CB ^{RB} -IN ^{MA} -W	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Structural Wood Deck	
VGA-FA-CB ^{RB} -IN ^{RB} -W	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Structural Wood Deck	
VGA-FA-CB ^{RB} -IN ^{RB} -VB-W	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Structural Wood Deck	
Over	burden (Vegetative) – Spatter Adhered Roof Assemblies – Wood Deck	
VGA-FA ^{SP} -CB ^{RB} -IN ^{MA} -W	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(MA) / Structural Wood Deck	
VGA-FA ^{SP} -CB ^{RB} -IN ^{RB} -W	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Structural Wood Deck	
VGA-FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-W	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Structural Wood Deck	
Overburden (Vegetative) – Adhered Roof Assemblies – Steel Deck		
VGA-FA-CB ^{RB} -IN ^{MA} -S	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck	
VGA-FA-CB ^{RB} -IN ^{RB} -VB-TB ^{MA} -S	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck	
VGA-IN ^{⊥L} -FA-TB ^{MA} -S	Organics / Insulation ^(LL) / FA Membrane / Thermal Barrier ^(MA) / Steel Deck	
Over	burden (Vegetative) – Spatter Adhered Roof Assemblies – Steel Deck	
VGA-FA ^{SP} -CB ^{RB} -IN ^{MA} -S	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(MA) / Steel Deck	
VGA-FA ^{sp} -CB ^{rb} -IN ^{rb} -VB- TB ^{ma} -S	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Thermal Barrier ^(MA) / Steel Deck	
VGA-IN ^{LL} -FA ^{SP} -TB ^{MA} -S	Organics / Insulation ^(LL) / FA Membrane ^(SP) / Thermal Barrier ^(MA) / Steel Deck	
Overburden (Vegetative) – Adhered Roof Assemblies – Concrete Deck		
VGA-FA-CB ^{RB} -IN ^{RB} -C	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck	
VGA-FA-CB ^{RB} -IN ^{RB} -VB-C	Organics / FA Membrane / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete Deck	
VGA-IN ^{⊥L} -FA-C	Organics / Insulation ^(LL) / FA Membrane / Concrete Deck	
Overburden (Vegetative) – Spatter Adhered Roof Assemblies – Concrete Deck		
VGA-FA ^{SP} -CB ^{RB} -IN ^{RB} -C	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Concrete Deck	
VGA-FA ^{SP} -CB ^{RB} -IN ^{RB} -VB-C	Organics / FA Membrane ^(SP) / Cover Board ^(RB) / Insulation ^(RB) / Vapor Barrier / Concrete Deck	
VGA-IN ^{LL} -FA ^{SP} -C	Organics / Insulation ^(LL) / FA Membrane ^(SP) / Concrete Deck	