

EME5625MDE

(Mechanical Fastened Construction)
Installation Guide

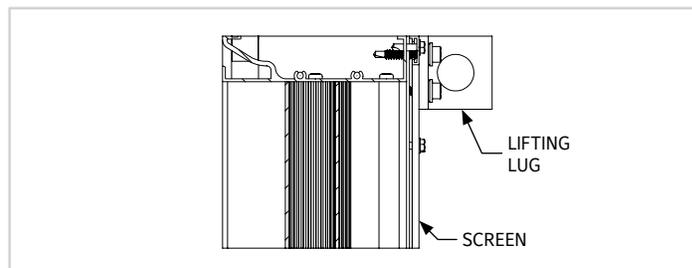
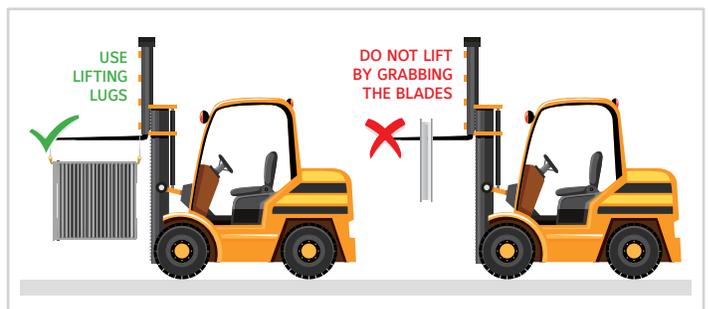
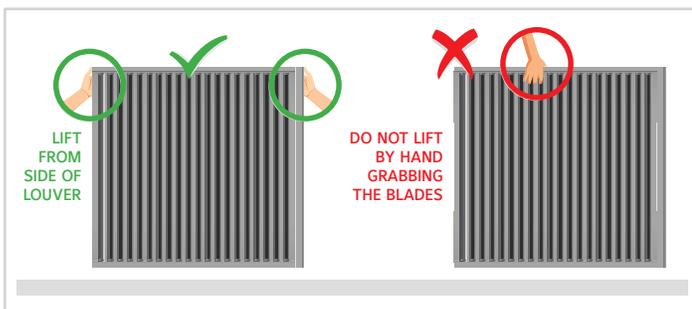
PRE-ASSEMBLY INSTRUCTIONS:

1. Remove louvers & accessories from shipping containers & inspect for damage. Single section units will be shipped fully assembled. Multi-section units will be shipped in shipping sections to be assembled at the job site. Large multi section units may be packaged in more than one shipping crate.
2. Care must be taken when handling components. Lift louver sections carefully by the supports or frames. Avoid lifting by louver blades. Do not apply excessive force to any point of the section. Lift at multiple points, if necessary to avoid deformation or racking of components.
3. Inspect louvers & components after removal from containers. Verify that all components & fasteners are accounted for. Report any shortages immediately to Ruskin manufacturing.
4. Inspect the openings that the louvers will be installed in. Verify that the openings are square & that the unit will fit prior to installation.
5. Contact your local Ruskin representative if you have questions pertaining to this installation or other field modifications.
6. Ensure that you have received ship loose parts & a box with hardwares.

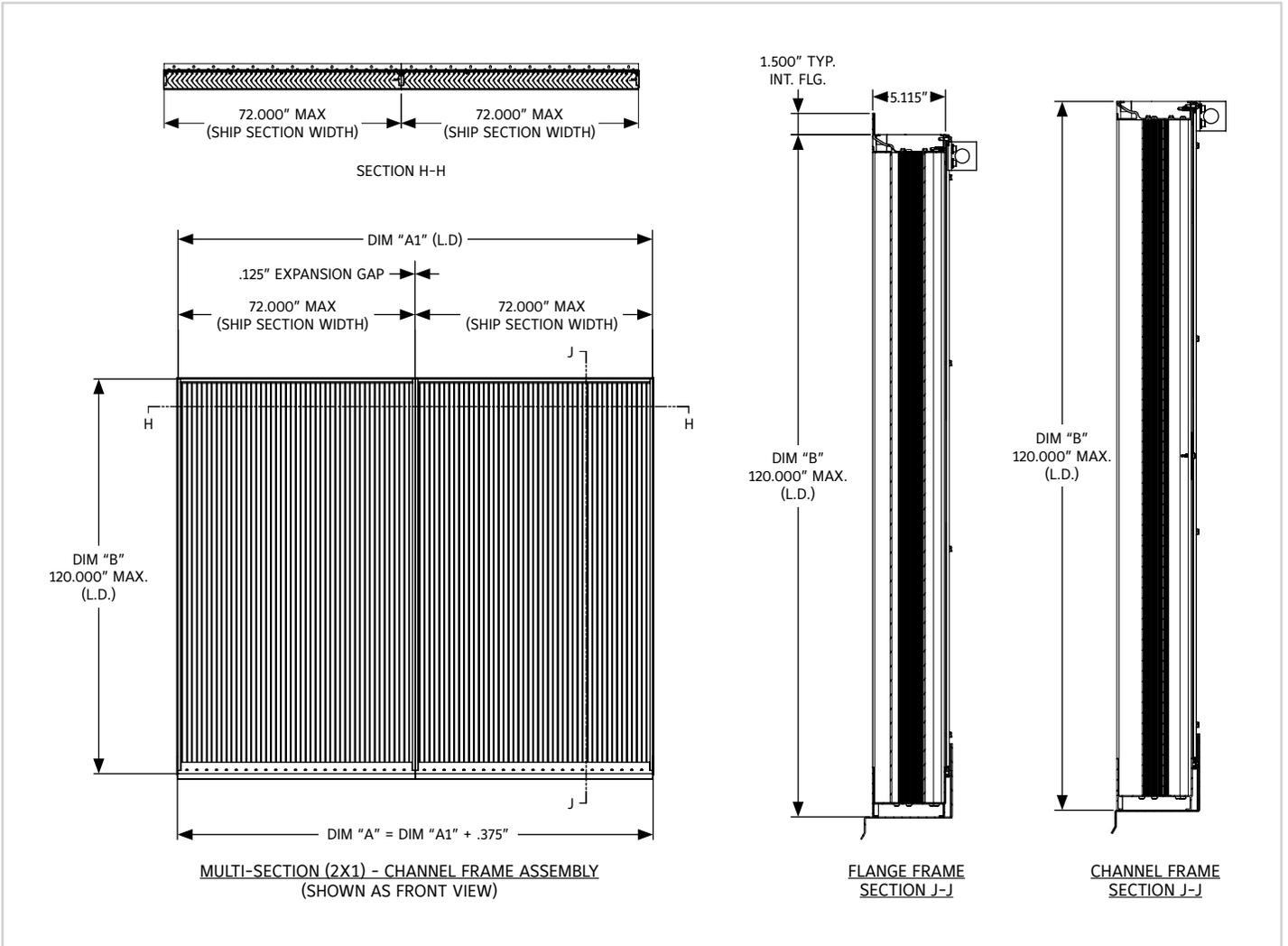
ASSEMBLY PROCEDURE:

1. If installing an extended sill (with end dams) in the opening. Install the sill pan in between the sections if the louver is single section wide & multi-section high. Install sill pan with lap strips if the louver is multi section wide & high. (As shown in exploded detail) make sure to apply sealant at the location where gutters meet prior to installation of louvers.
2. Locate ship loose hardware required for louver multi-section assemblies.
3. Position the louver sections faced down on a level, non-abrasive surface in the configuration they will be assembled in. Reference the tag numbers on each section to ensure the sections are in correct order.
4. Refer to appropriate exploded details for splice hardware identification & location. Now fasten the sections together at frames, support splices. (Supports are pre-drilled at plant for ease).
5. If perimeter clips or continuous angles are to be installed, locate & anchor them in the opening. (Reference clip angle installation guide for instructions).
6. Level the louver assembly both horizontally & vertically in the opening using shims. (Shims not provided by Ruskin).
7. Position the louver in the opening so that the desired sealant joint will be maintained around the perimeter of louver.
8. After louver is secured, install backer rod & sealant around louver perimeter. (Sealant not provided by Ruskin).

LOUVER LIFTING INSTRUCTIONS



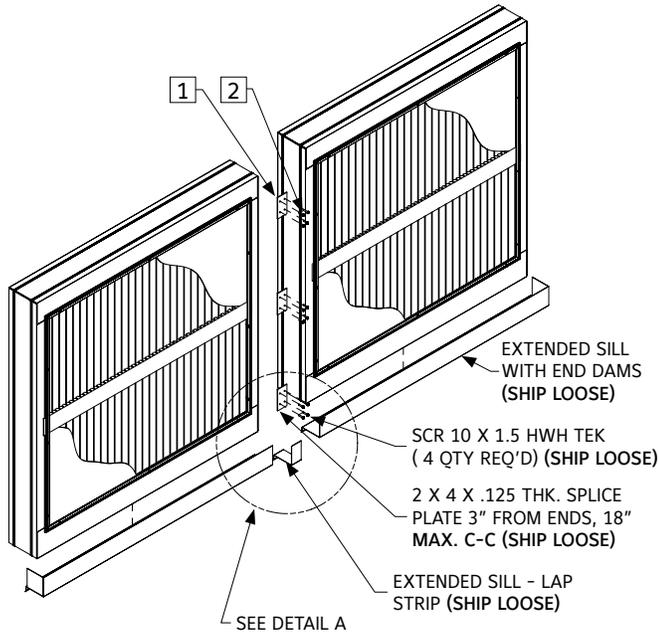
REFERENCE IMAGES



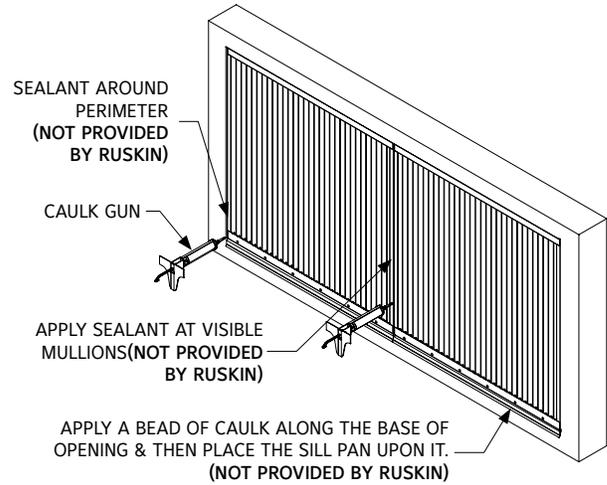
FRONT FLANGE 2X1



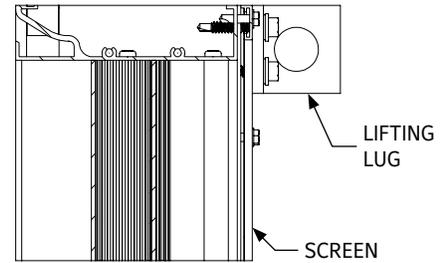
2X1 MULTI SECTION INSTALLATION



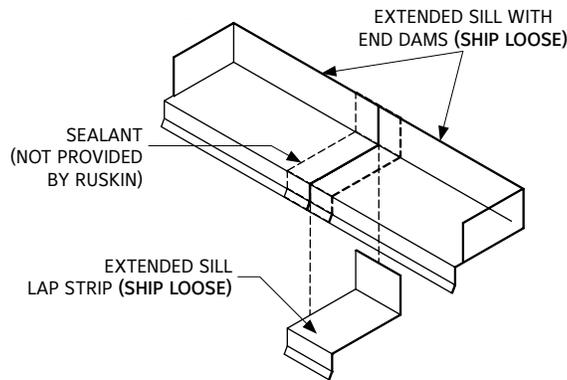
2X1 MULTI SECTION EXPLODED VIEW
ISOMETRIC REAR VIEW



MULTI SECTION LOUVER ASSEMBLY
ISOMETRIC FRONT VIEW (SEALANT / CAULK INFORMATION)



LIFT LUG OPTION



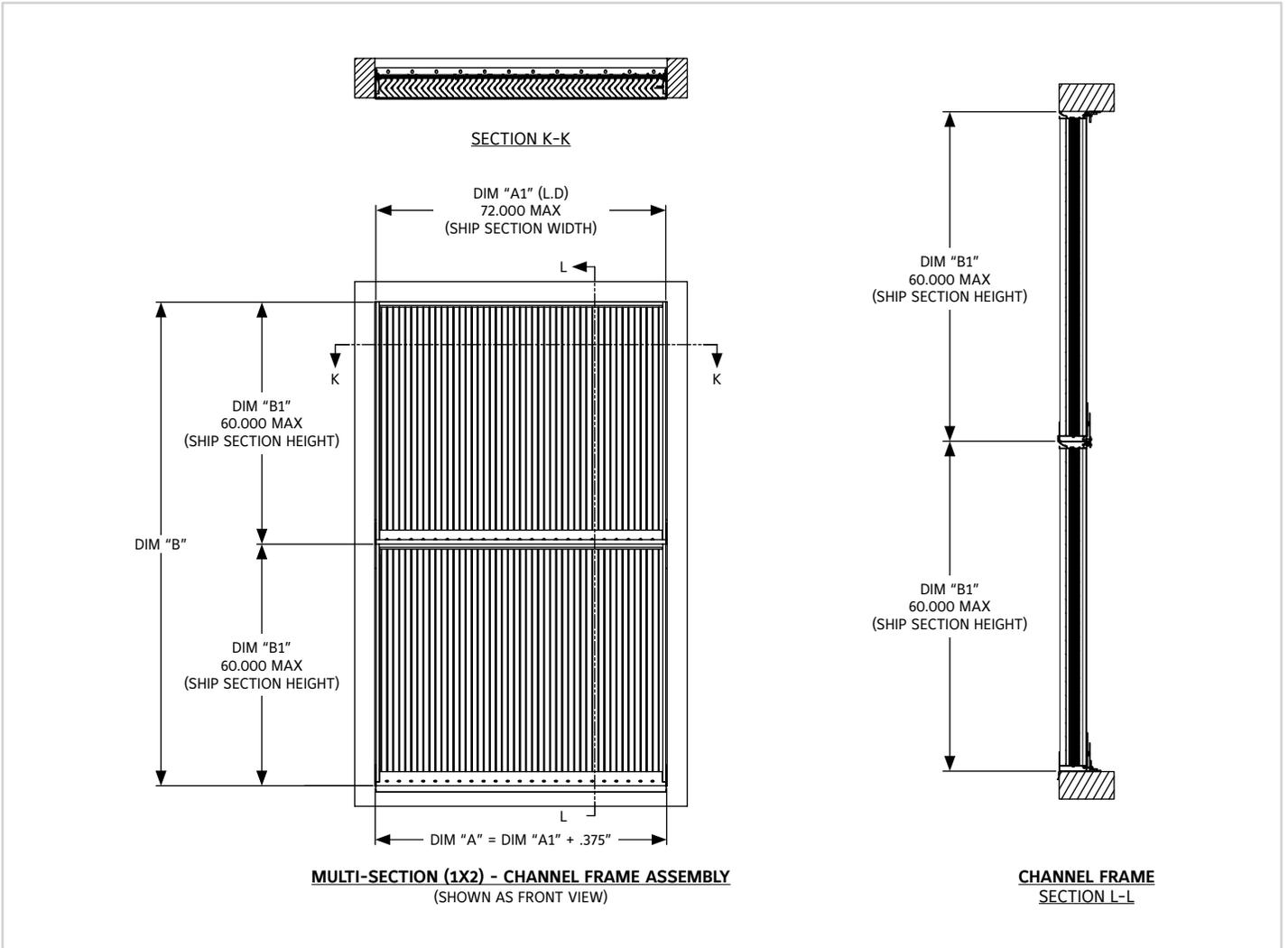
EXTENDED SILL

ITEM #	DESCRIPTION	QTY.	PART #	MATERIAL
PARTS LIST TABLE - 2X1 MULTI SECTION (SHIP LOOSE)				
1	1.5 X 4 X .080 THK SPLICE PLATE	8	360435593	SHEET 5005 - H34 .080" THK.
2	SCR 10X1.5 HWH TEK 410/ZC	32	380430830	410/ZC

*NOTE: Ship Loose Parts quantity is based on a max ship section size 2 x 1 assembly.

** Attachments varies per louver
** Square balloons indicates ship loose parts

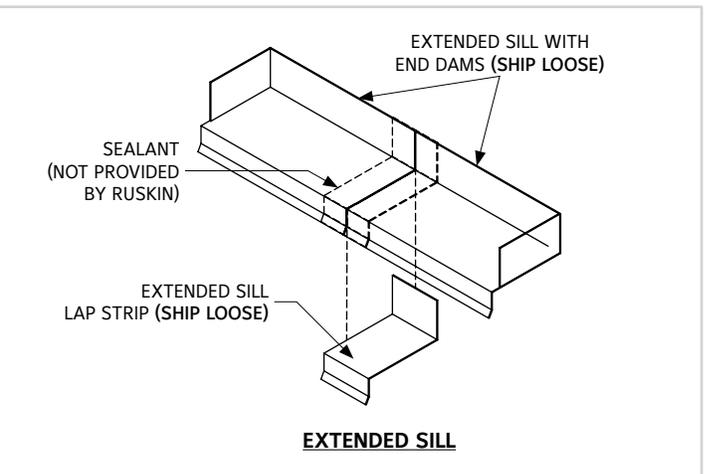
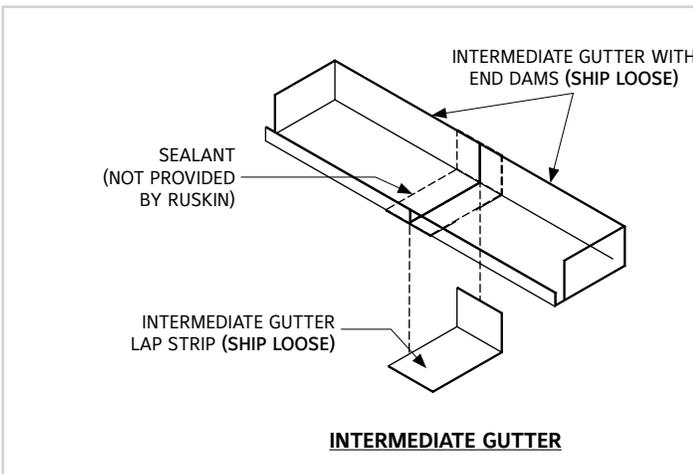
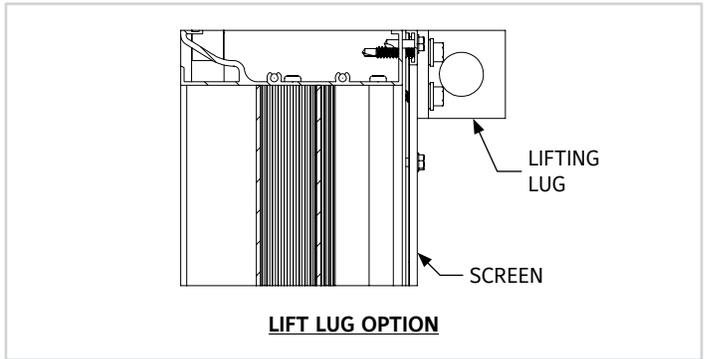
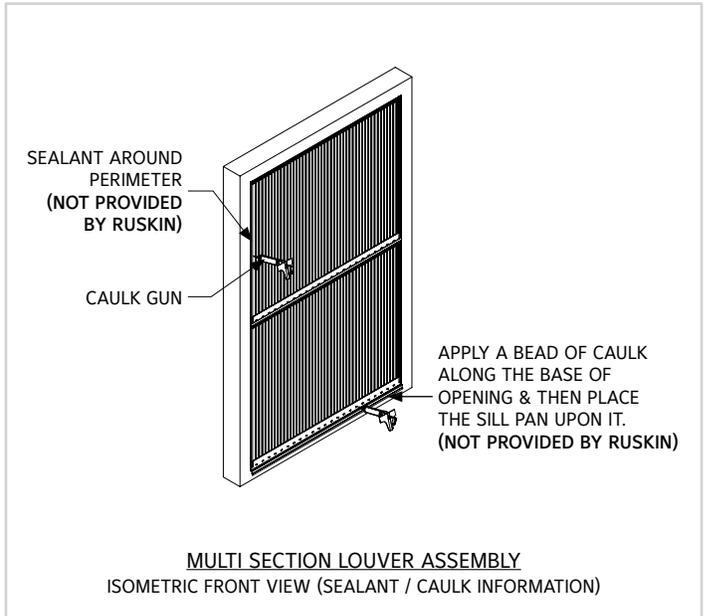
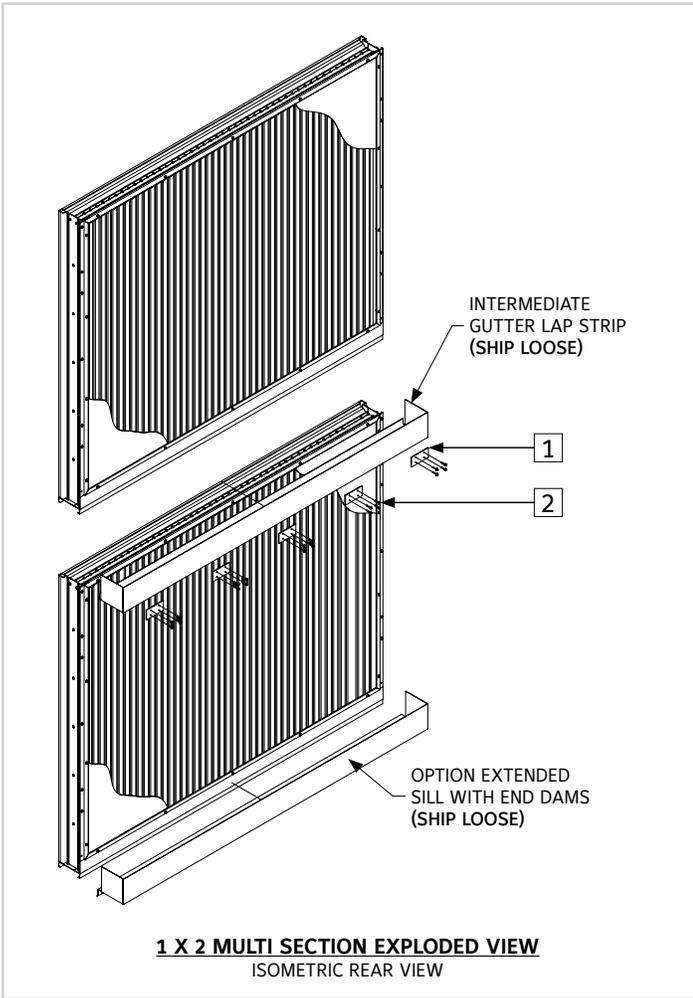
REFERENCE IMAGES



FRONT FLANGE 1X2



1X2 MULTI SECTION INSTALLATION

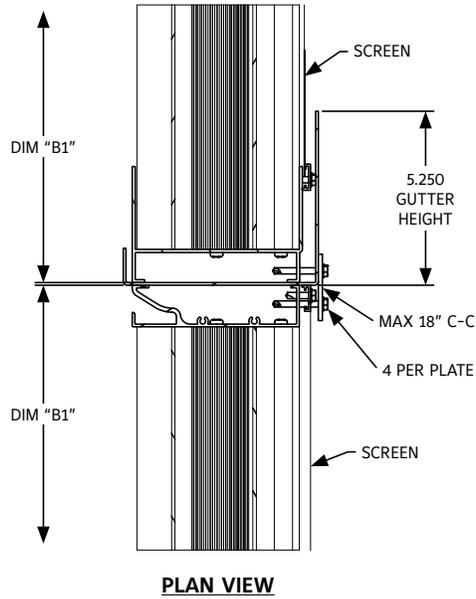


ITEM #	DESCRIPTION	QTY.	PART #	MATERIAL
PARTS LIST TABLE - 2X1 MULTI SECTION (SHIP LOOSE)				
1	2 X 4 X .125 THK SPLICE PLATE	8	360431136	ALUM .125
2	SCR 10X1.5 HWH TEK 410/ZC	32	380430830	410/ZC

*NOTE: Ship Loose Parts quantity is based on a max ship section size 1 x 2 assembly.

** Attachments varies per louver
** Square balloons indicates ship loose parts

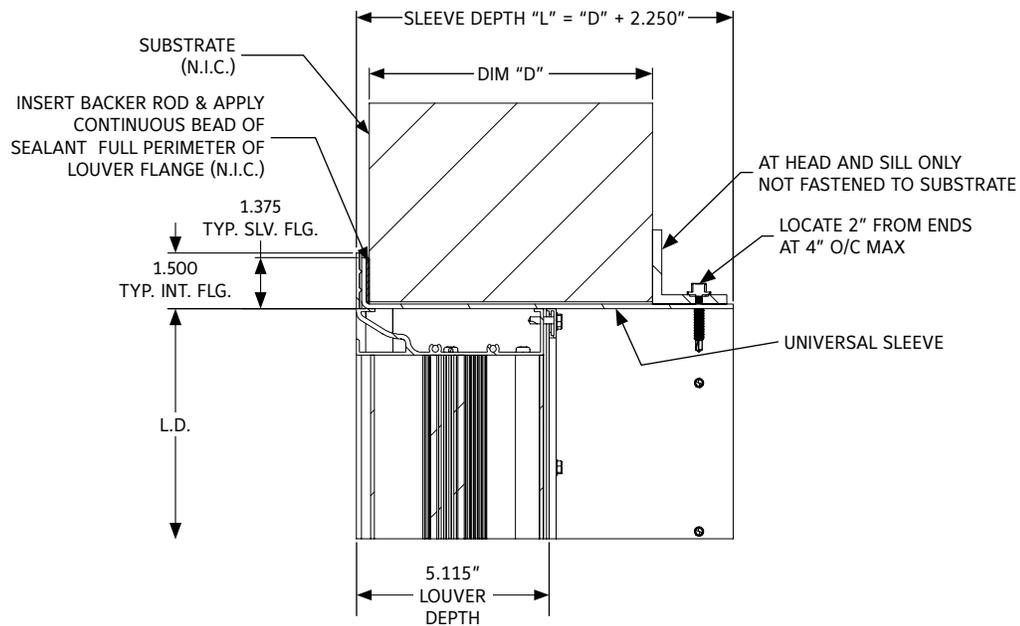
MULTI-SECTION TALL ASSEMBLY



NOTES:

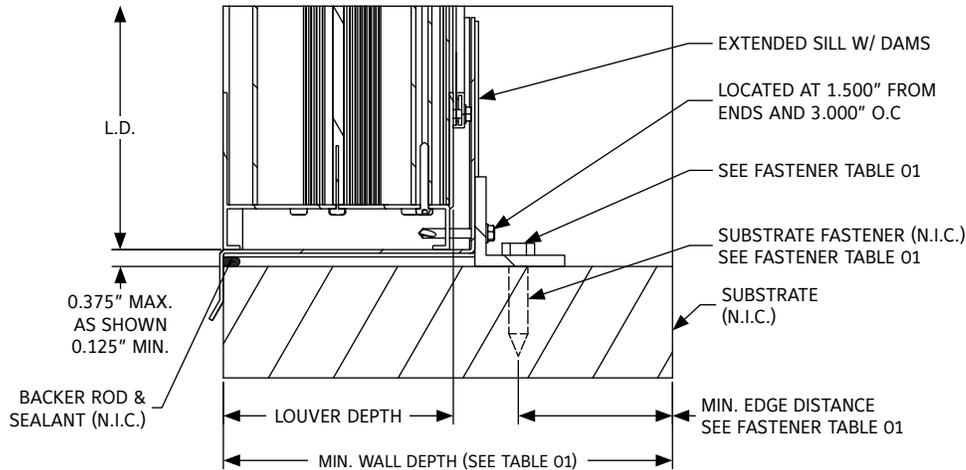
- For openings larger than the max section height as called out on the NOA, stacking louvers may be allowed with max 72" X 60" tall sections.
- Drawing shown for information only

RETAINING ANGLE INSTALLATION



SLEEVE ATTACHMENT TO LOUVER FRAME AND SUBSTRATE

STANDARD INSTALLATION METHOD

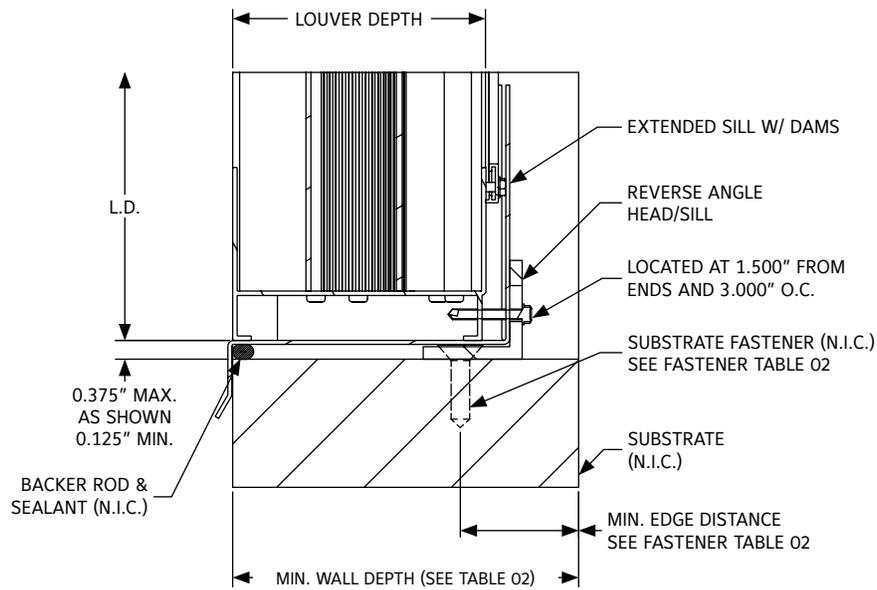


STANDARD CLIP ANGLE INSTALL (SILL FRAME)

TABLE 01 - EME5625MDE STANDARD INSTALLATION SUBSTRATE FASTENER TABLE (BY OTHERS)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C-C SPACING	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. WALL DEPTH (STANDARD ANGLE)
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	1 1/2"	8 1/8"
		3/8" DIA. LAG SCREW, MIN. A307 GRADE A	6"	2 5/8"	1 1/2"	8 1/8"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	3/4"	7 3/8"
	10 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	6"	3 THREADS BEYOND SUB. THICKNESS	5/8"	7 1/4"
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	3/4"	7 3/8"
		5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3"	3 THREADS BEYOND SUB. THICKNESS	5/8"	7 1/4"
CONCRETE	UNCRAKED, 2220 PSI COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS	3"	1 3/4"	1 1/2"	8 1/8"
	UNCRAKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDDEX TAPCON+, CARBON STEEL	3"	2 1/2"	2 1/4"	8 7/8"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"	2 7/8"	2 1/2"	9 1/8"
	CRACKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDDEX TAPCON+, CARBON STEEL	3"	2 1/2"	4"	10 5/8"
3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL		6"	2 7/8"	4"	10 5/8"	
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS	3"	2"	2"	8 5/8"

STANDARD INSTALLATION METHOD

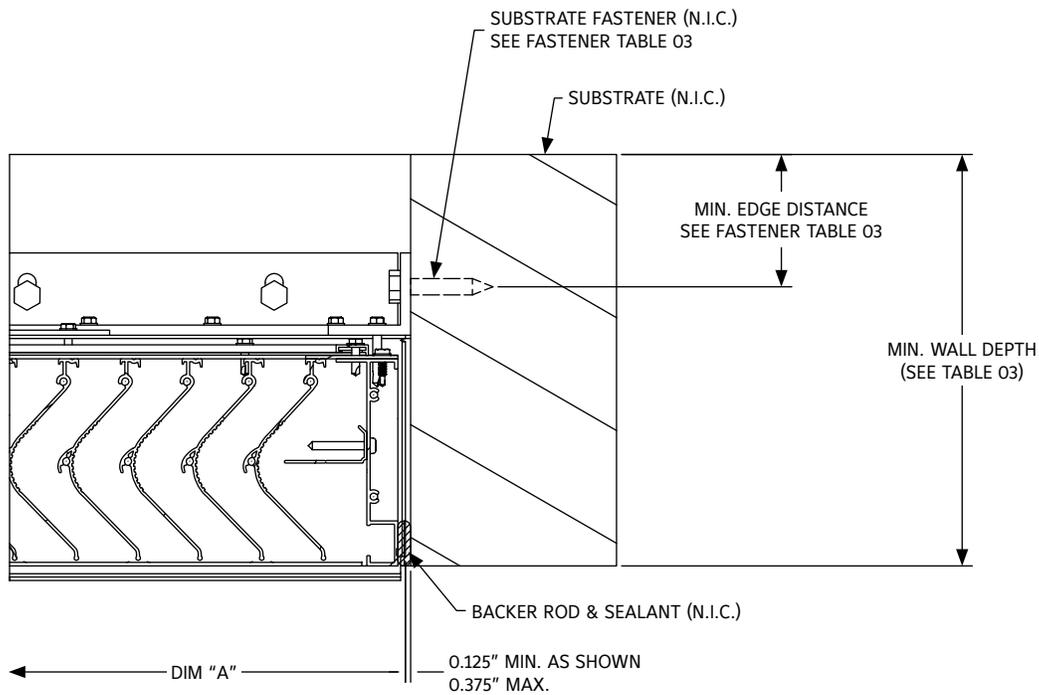


REVERSED CLIP ANGLE INSTALL (SILL FRAME)

TABLE 02 - EME5625MDE REVERSE ANGLE INSTALLATION SUBSTRATE FASTENER TABLE (BY OTHERS)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C-C SPACING	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. WALL DEPTH (REVERSE ANGLE)
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	1/4" DIA. LAG SCREW, MIN. A307 GRADE A	3"	2 5/8"	1 1/2"	6 1/8"
STEEL	MIN. 10 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3"	3 THREADS BEYOND SUB. THICKNESS	1/2"	5 1/8"
ALUMINUM	0.188" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3"	3 THREADS BEYOND SUB. THICKNESS	1/2"	5 1/8"
CONCRETE	UNCRACKED, 2220 PSI COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS	3"	1 3/4"	1 1/2"	6 1/8"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS	3"	2"	2"	6 5/8"

STANDARD INSTALLATION METHOD



STANDARD CLIP ANGLE INSTALL (JAMB FRAME)

TABLE 03 - EME5625MDE - JAMB STANDARD ANGLE WALL FASTENER TABLE, 3 FASTENERS PER ANGLE (BY OTHERS)

SUBSTRATE TYPE	MIN SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN EMBEDMENT	MIN EDGE DISTANCE	MIN WALL DEPTH
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8" DIA BOLT W/ NUT, MIN A 307 GRADE A	2 5/8"	1-1/2"	8 1/8"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA BOLT W/ NUT, MIN A 307 GRADE A	3 THREADS BEYOND NUT	3/4"	7 3/8"
	10 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	5/16" DIA. SELF-DRILLING SCREW, MIN SAE GRADE 2	3 THREADS BEYOND SUB. THICKNESS	5/8"	7 1/4"
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	3/8" DIA BOLT W/ NUT, MIN A 307 GRADE A	3 THREADS BEYOND NUT	3/4"	1 1/2"
	0.188" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	5/16" DIA. SELF-DRILLING SCREW, MIN SAE GRADE 2	3 THREADS BEYOND SUB. THICKNESS	5/8"	1 1/2"

ALTERNATE INSTALLATION METHOD

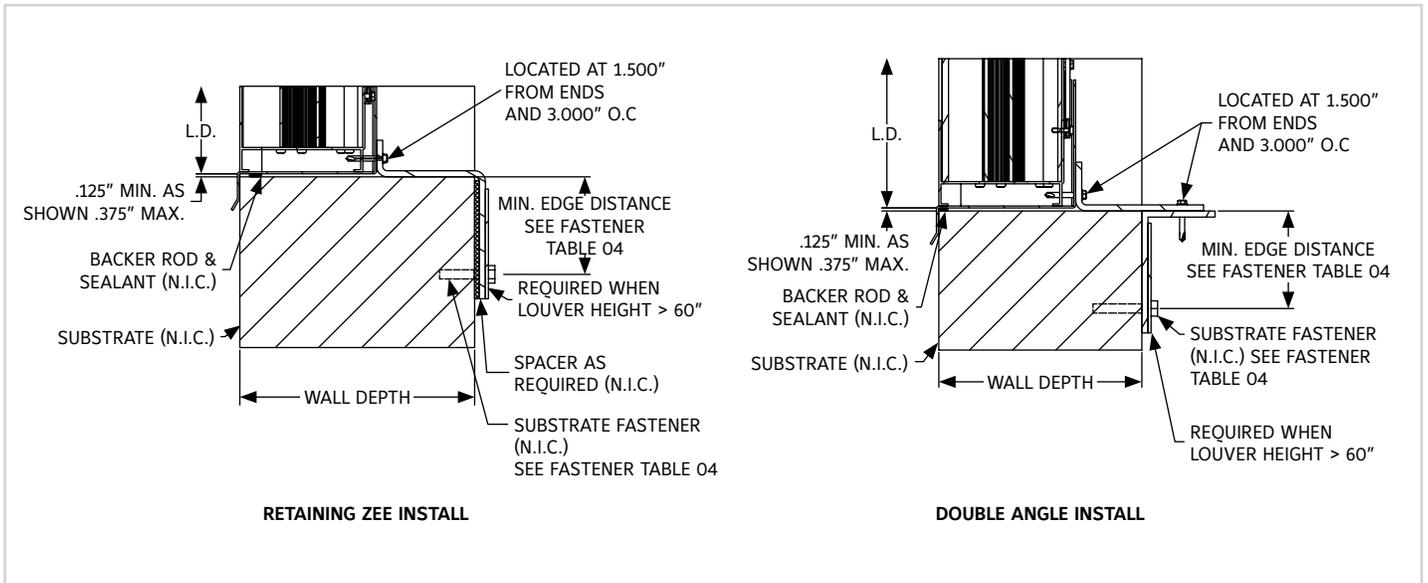


TABLE 04 - EME5625MDE RETAINING ANGLE / ZEE INSTALLATION SUBSTRATE FASTENER TABLE (BY OTHERS)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C-C SPACING AT HEAD & SILL	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3' THICK, 0.42 SPECIFIC GRAVITY	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	3"
		3/8" DIA. LAG SCREW, MIN. A307 GRADE A	6"	2 5/8"	3"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	3/4"
	12 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	6"	3 THREADS BEYOND SUB. THICKNESS	5/8"
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	6"	3 THREADS BEYOND NUT	3/4"
		5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3"	3 THREADS BEYOND SUB. THICKNESS	5/8"
CONCRETE	UNCRACKED, 2220 PSI COMP. STRENGTH	1/4" DIA. ELCO AGGRE-GATOR, 300 SERIES SS	3"	1 3/4"	1 1/2"
	UNCRACKED, 2500 PSI COMP. STRENGTH	1/4" DIA. BUILDEX TAPCON+, CARBON STEEL	6"	2 1/4"	4"
	CRACKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDEX TAPCON+, CARBON STEEL	6"	2 1/2"	4"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"	2 3/8"	4"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" DIA. ELCO AGGRE-GATOR, 300 SERIES SS	3"	2"	2"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"	2 3/8"	4"

ALTERNATE INSTALLATION METHOD

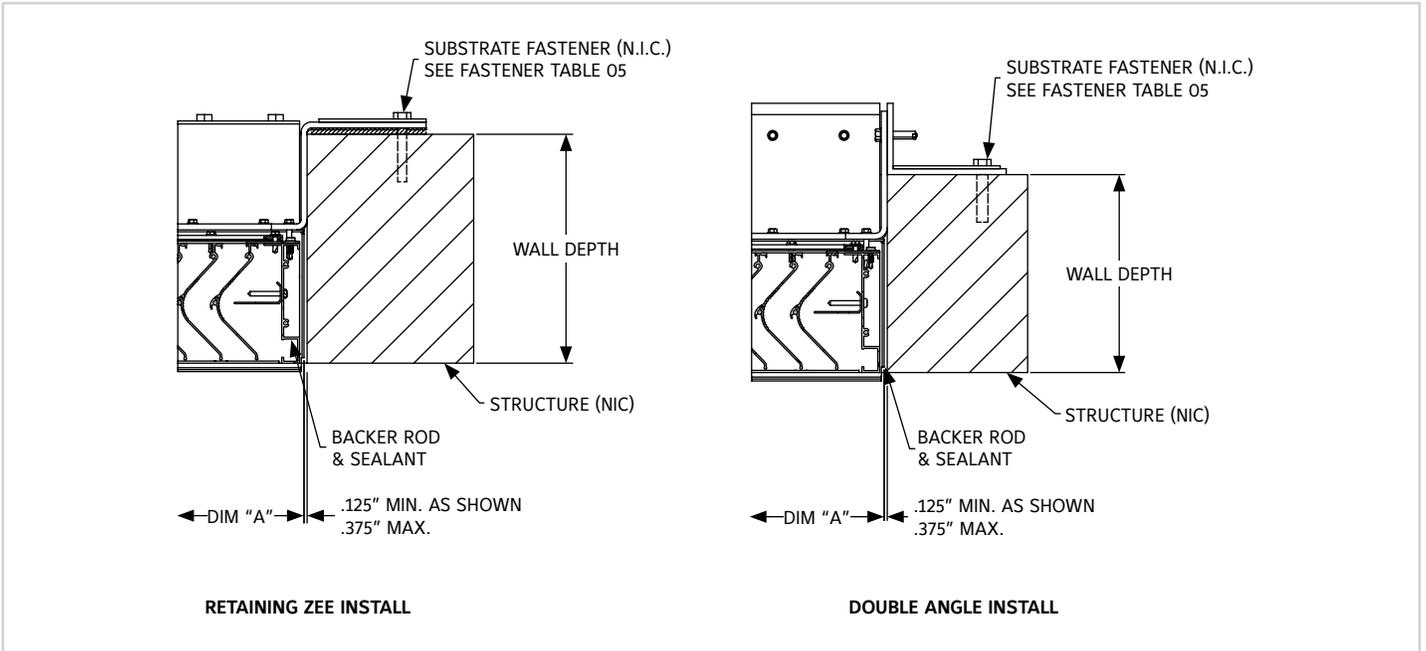


TABLE 05 - EME5625MDE - JAMB ALTERNATE INSTALLATION WALL FASTENER TABLE, 3 FASTENERS PER ANGLE (BY OTHERS)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8" DIA BOLT W/ NUT, MIN A 307 GRADE A	3 THREADS BEYOND NUT	3/4"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	3 THREADS BEYOND NUT	5/8"
	12 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3 THREADS BEYOND SUB. THICKNESS	3/4"
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	3 THREADS BEYOND NUT	5/8"
	0.188" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2	3 THREADS BEYOND SUB. THICKNESS	5/8"
CONCRETE	UNCRACKED, 2500 PSI COMP. STRENGTH	1/4" DIA. BUILDDEX TAPCON+, CARBON STEEL	2"	4"
	CRACKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDDEX TAPCON+, CARBON STEEL	2 1/2"	4"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	2 3/8"	4"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" DIA. ELCO AGGRE-GATOR, 300 SERIES	2"	4"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	2 3/8"	4"

LINKS TO IMPORTANT DOCUMENTS

Document Title

Limited Warranty Document



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