

EME5625MDE

(Mechanical Fastened Construction)
Installation Guide



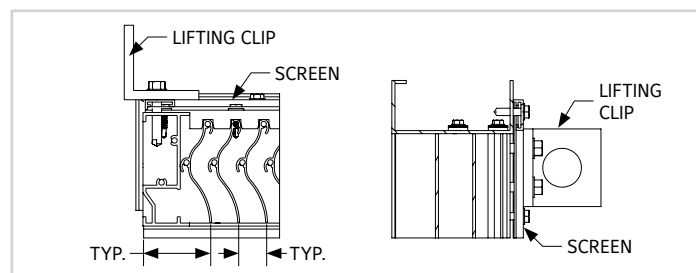
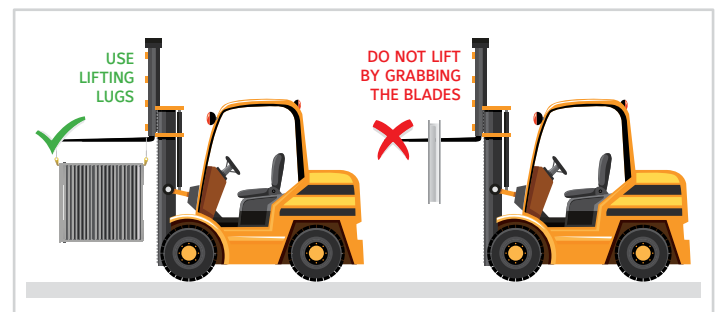
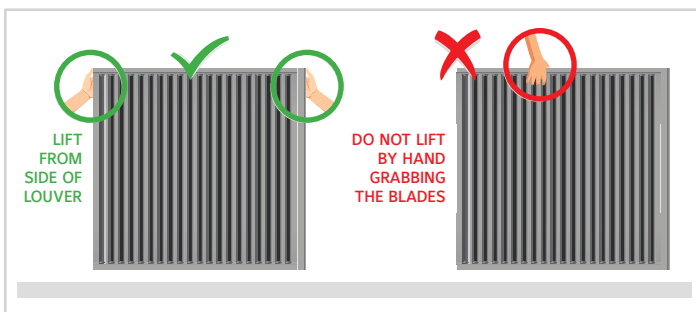
PRE-ASSEMBLY INSTRUCTIONS:

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.

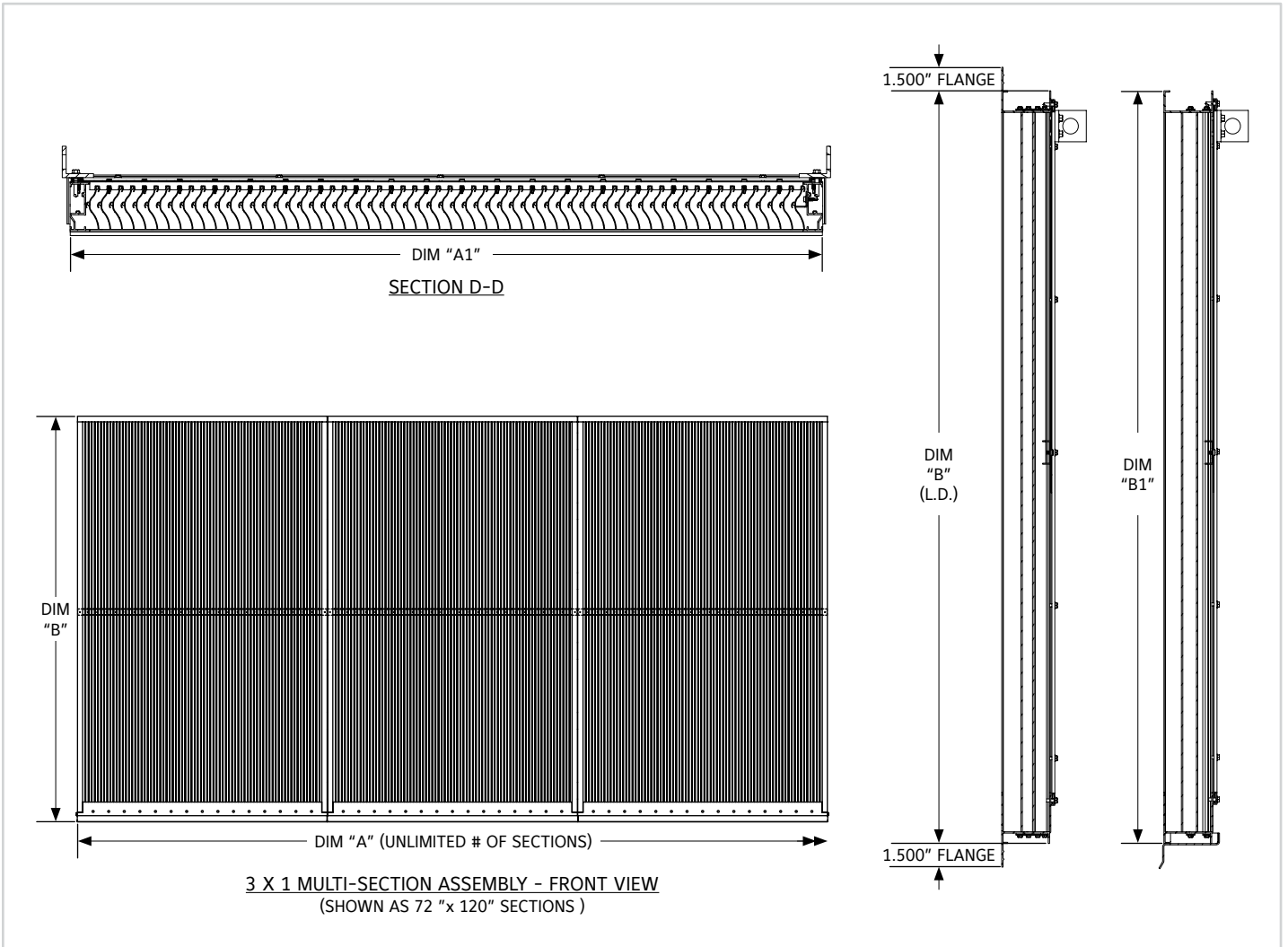
ASSEMBLY PROCEDURE:

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



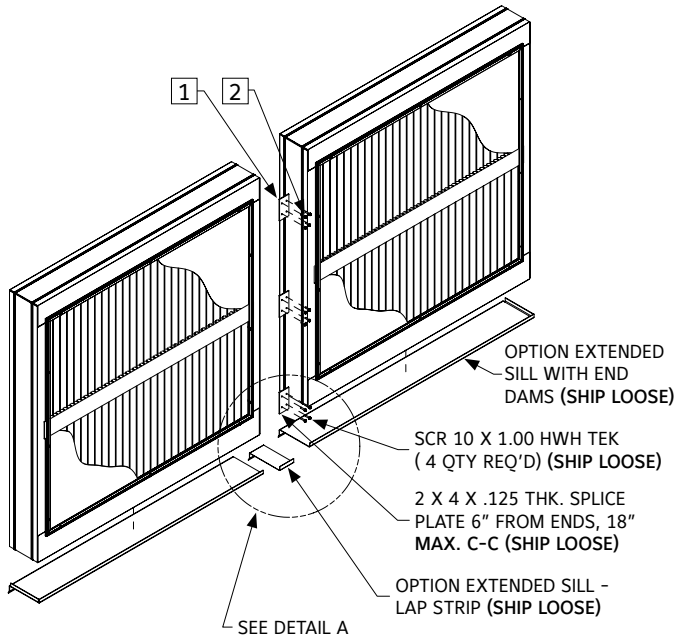
REFERENCE IMAGES



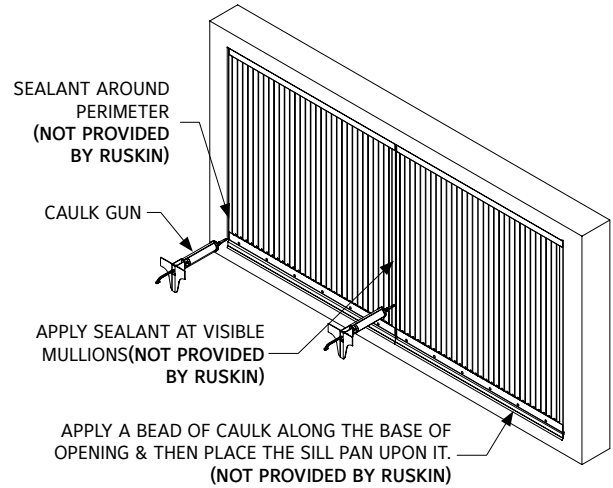
FRONT FLANGE 2X1



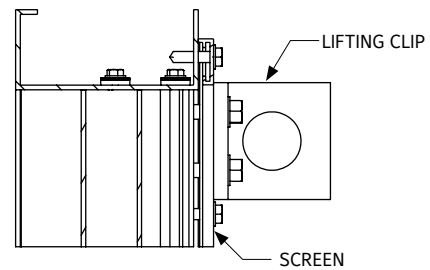
2X1 MULTI SECTION INSTALLATION



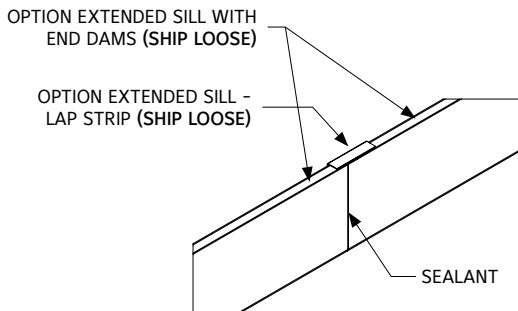
**2X1 MULTI SECTION EXPLODED VIEW
ISOMETRIC REAR VIEW**



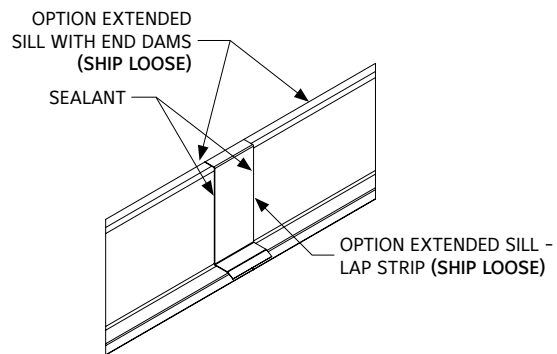
**MULTI SECTION LOUVER ASSEMBLY
ISOMETRIC FRONT VIEW (SEALANT / CAULK INFORMATION)**



EXTENDED SILL OPTION



TOP OF SILL PAN



BOTTOM OF SILL PAN

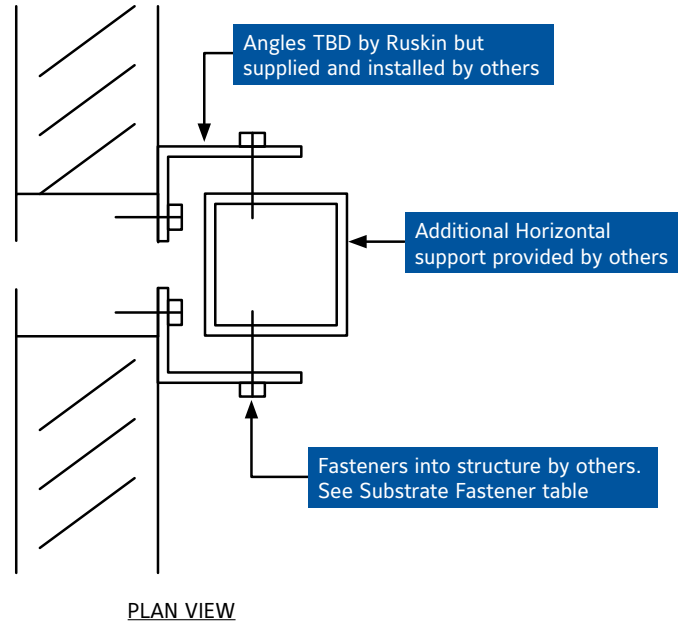
**DETAIL A
MULTI LAP STRIP SEALANT INFO.**

ITEM #	DESCRIPTION	QTY.	PART #	MATERIAL
PARTS LIST TABLE - 2X1 MULTI SECTION (SHIP LOOSE)				
1	2 X 4 X .125 THK SPLICE PLATE	8	360431136	EXT ALUM 6063-T6
2	SCR 10 X 1.0 HWH TEK	32	380430941	410/ZC

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

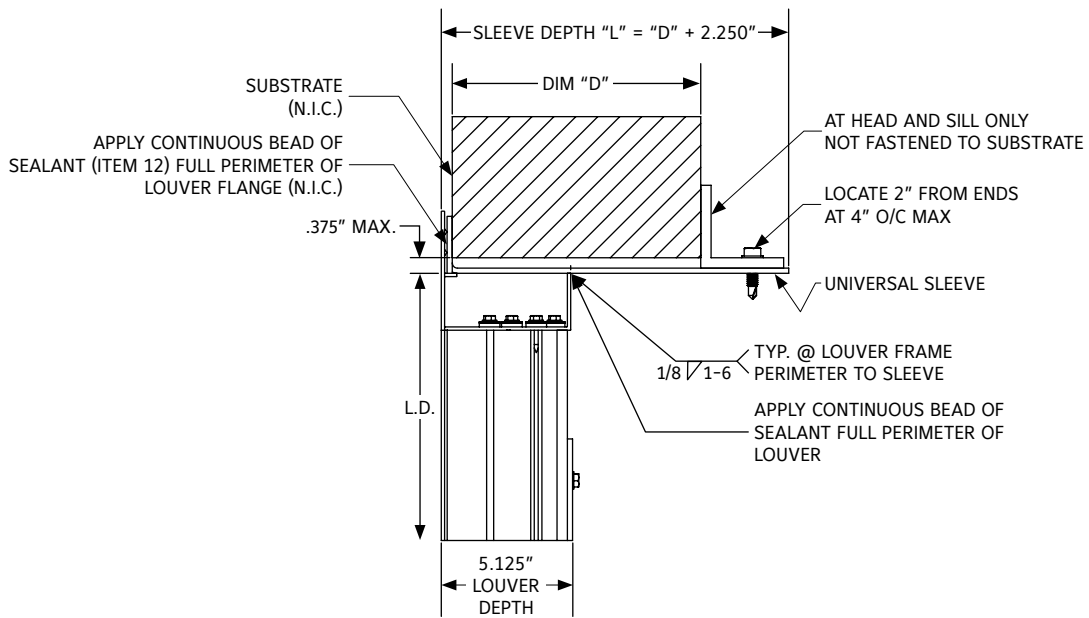
** Attachments varies per louver
** Square balloons indicates ship loose parts

MULTI-SECTION TALL ASSEMBLY



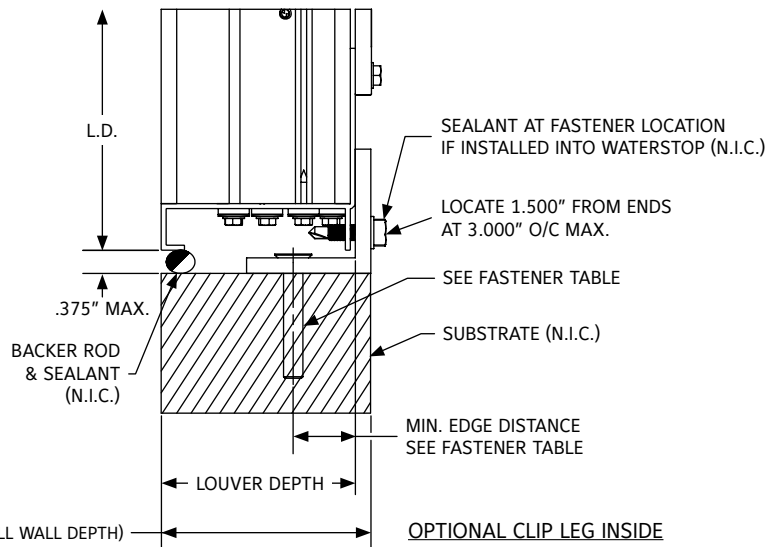
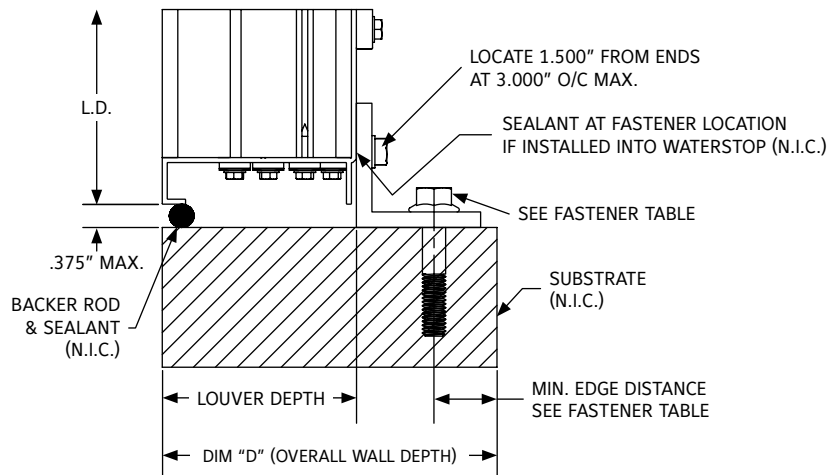
- NOTES:
- For openings larger than the max section height as called out on the NOA, stacking louvers may be required, in this event an additional horizontal support must be added (not supplied by Ruskin) that meets the attachment requirements determined by structural requirements, see Substrate requirements listed below.
 - Drawing shown for information only

RETAINING ANGLE INSTALLATION



SLEEVE ATTACHMENT TO LOUVER FRAME AND SUBSTRATE

STANDARD INSTALLATION METHOD



RETAINING ANGLE INSTALLED AT SILL (SIMILAR AT HEAD)
STANDARD INSTALLATION

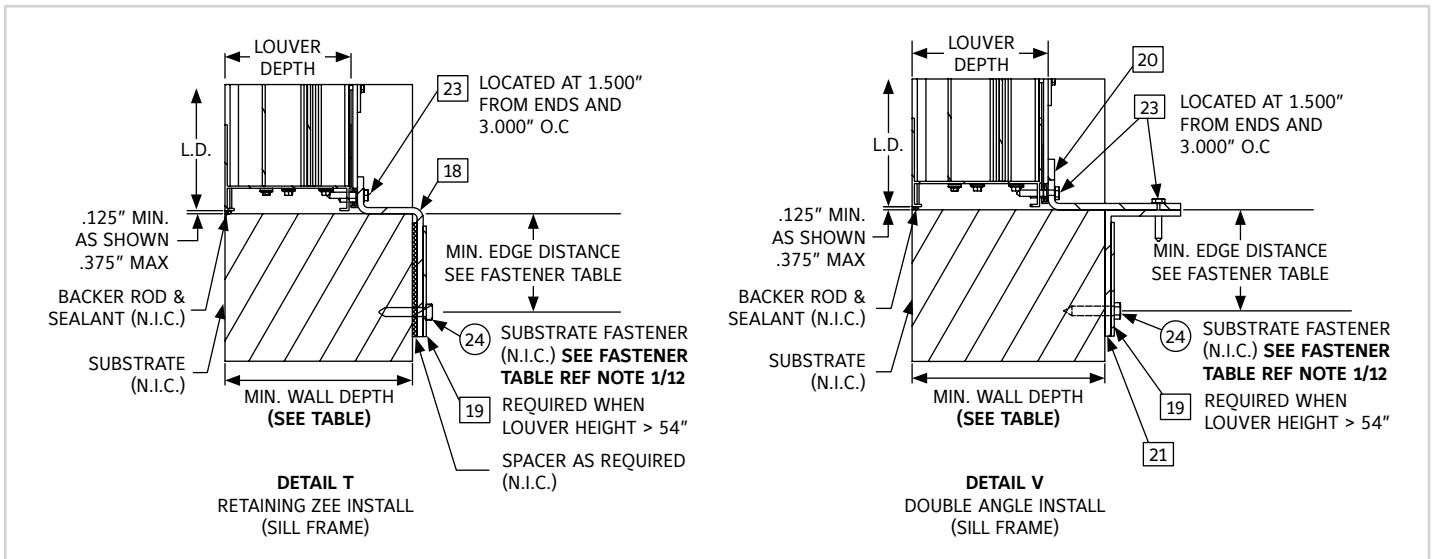
EME5625MDE / STANDARD INSTALLATION SUBSTRATE FASTENER TABLE (BY OTHERS)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C/C SPACING AT HEAD/SILL	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MINIMUM WALL DEPTH	
						STANDARD ANGLE	REVERSE 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"	7 5/8"	5 7/8"
		3/8" DIA. LAG SCREW, MIN. A307 GRADE A	6"	2 5/8"	1 1/2"	7 5/8"	5 7/8"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	12"	3 THREADS BEYOND NUT	3/4"	6 7/8"	5 1/8"
	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"	6 3/4"	5"
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	3/8" DIA. BOLT W/ NUT, MIN. A307 GRADE A	12"	3 THREADS BEYOND NUT	3/4"	6 7/8"	5 1/8"

EME5625MDE / STANDARD 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	MINIMUM WALL DEPTH	
						STANDARD ANGLE	REVERSE ANGLE
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	5/16" DIA. SELF DRILLING SCREW, MIN. SAE GRADE 2*	3"	3 THREADS BEYOND SUB. THICKNESS	5/8"	6 3/4"	5"
CONCRETE	UNCRACKED, 2220 PSI COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS*	3"	1 3/4"	1 1/2"	7 5/8"	5 7/8"
	UNCRACKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDEX TAPCON+, CARBON STEEL	3"	2 1/2"	1 1/2"	7 5/8"	5 7/8"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"	2 3/8"	2 1/4"	8 3/8"	6 3/4"
	CRACKED, 2500 PSI COMP. STRENGTH	3/8" DIA. BUILDEX TAPCON+, CARBON STEEL	3"	2 3/8"	2 3/4"	8 7/8"	7 1/8"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"		3 1/2"	9 5/8"	7 7/8"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" DIA. ELCO AGGREGATOR, 300 SERIES SS*	3"	2"	2"	8 1/8"	6 3/8"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	3"	2 3/8"	2"	8 1/8"	6 3/8"

ALTERNATE INSTALLATION METHOD



EME5625MDE / 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"	4"
	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"	4"
		3/8" DIA. POWERS POWER-STUD+ SD1, CARBON STEEL	6"	2 3/8"	4"

LINKS TO IMPORTANT DOCUMENTS

Document Title

Limited Warranty Document



3900 Doctor Greaves Road
Grandview, MO 64030
Website: www.ruskin.com
Phone: (816) 761-7476