

LINDSAY WINDOWS LLC

SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX

(NON-IMPACT)

THROUGH-FRAME INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1.

THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-11 DOCUMENTED IN INTERTEK TEST REPORT NO. J1943.01/.02-501-47.
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3.

1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5.

IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL BE REQUIRED:
6.

MATERIALS:

6.1.

FRAME: RIGID VINYL

7.

GLAZING:

7.1.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.

7.2.

SEE GLAZING DETAILS ON SHEET 5.

7.3.

GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE AS REQUIRED.

8.

PANEL OPERABILITY DESIGNATIONS:

8.1.

X = OPERABLE

8.2.

O = FIXED

9.

IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-11, SECTION 4.4.2.5, PRODUCTION SIZES OF IDENTICAL CONSTRUCTION EQUAL TO OR SMALLER THAN THE SIZE TESTED IN BOTH WIDTH AND HEIGHT ARE ENVELOPED BY THE MAXIMUM SIZES TESTED AND INCLUDED IN THIS PRODUCT EVALUATION DOCUMENT. FOR A HORIZONTAL SLIDING WINDOW, THIS INCLUDES THE FRAME SIZE, SASH SIZE AND DAYLIGHT OPENING SIZE.
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| 4 | HORIZONTAL SECTIONS - ANCHORAGE INSTALLATION DETAILS |
| 5 | BILL OF MATERIALS & GLAZING DETAIL |
- INSTALLATION ANCHORAGE NOTES:
1.

INSTALL ONE (1) ANCHOR AS INDICATED IN THE SECTION DETAILS ON SHEET 3 & 4 AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 2.

1.1.

LOCATION TOLERANCE IS +/- 1/2".

2.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".

3.

INSTALLATION ANCHORAGE:

3.1.

SEE ANCHORAGE SCHEDULE THIS SHEET

3.2.

INSTALLATION ANCHORS SHALL BE CORROSION RESISTANT OR HAVE CORROSION RESISTANT COATING.

4.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

4.1.

WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42

4.2.

CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI

4.3.

MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT WITH DENSITY > 117 PCF

4.4.

METAL STRUCTURE: STEEL STUD 18GA (0.0428"), 33KSI OR GREATER

5.

PVC FRAME CAN BE DRILLED TO ALLOW INSTALLATION OF SCREWS IN LOWER EXTRUSION WALL ADJACENT TO OPENING. APPLY SNAP-IN CAP TO DRILLED HOLES IN EXTRUSION. SNAP-IN CAP IN SILL SHALL UTILIZE SILICONE SEALANT AROUND PERIMETER TO SEAL AGAINST WATER PENETRATION.

5.1.

OTHER METHODS OF SEALING INSTALLATION SCREW ACCESS HOLES ARE ACCEPTABLE.
- | INSTALLATION ANCHOR SCHEDULE | | | | | | | |
|---|---------------|---------------------|---|--|-------------------------|---|--|
| FASTENER HEAD TYPE | FASTENER SIZE | SUBSTRATE | MANUFACTURER AND/OR SPECIFICATION | MIN. EMBEDMENT (IN) | MIN. EDGE DISTANCE (IN) | MIN. SPACING (IN) BETWEEN FRAME ANCHORS | ANCHOR CAPACITIES BASED ON |
| HEX HEAD | 3/16" | CONCRETE | ITW TAPCONS (1) | 1 | 1-1/8 | 3 | MIN. 2500 PSI CONCRETE |
| | | MASONRY (BLOCK/CMU) | ITW TAPCONS (1) | 1 | 2 | 3 | STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT |
| PAN HEAD | No. 10 | WOOD | ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT | 1-1/4 | 3/4 | 2 1/2 | WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42. |
| | | | ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT | | | | |
| PAN HEAD | No. 10 | STEEL STUD | ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT | 3 SCREWS THREADS PAST INTERIOR OF STUD | 1 | 2 | STEEL STUD 18GA (0.0428"), 33KSI OR GREATER. |
| NOTES: <div>1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.090" PILOT HOLE (DRILL SIZE 43). FOR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE: IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31).
3) FOR WOOD OR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.082" PILOT HOLE (DRILL SIZE 45).</div> | | | | | | | |
- PROJECT NO. ACE-2020-107

LINDSAY WINDOWS LLC

1995 COMMERCE DRIVE

NORTH MANKATO, MN 56003

TITLE: SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX (NI)

INSTALLATION AND GENERAL NOTES

DRAWN BY: RJA

DATE: 6/6/20

SCALE: N.T.S.

REV: ---

PH: 507-625-4278

FAX: 507-625-7211

LINDSAY

WINDOWS, LLC

since 1947

1 OF 5

Robert J. Amoruso, P.E.

Florida P.E. No. 49752

Robert J. Amoruso

Professional Engineer

State of Florida

No. 49752

Digitally signed by Robert J Amoruso

Date: 2020.06.06 17:05:39 -04'00'

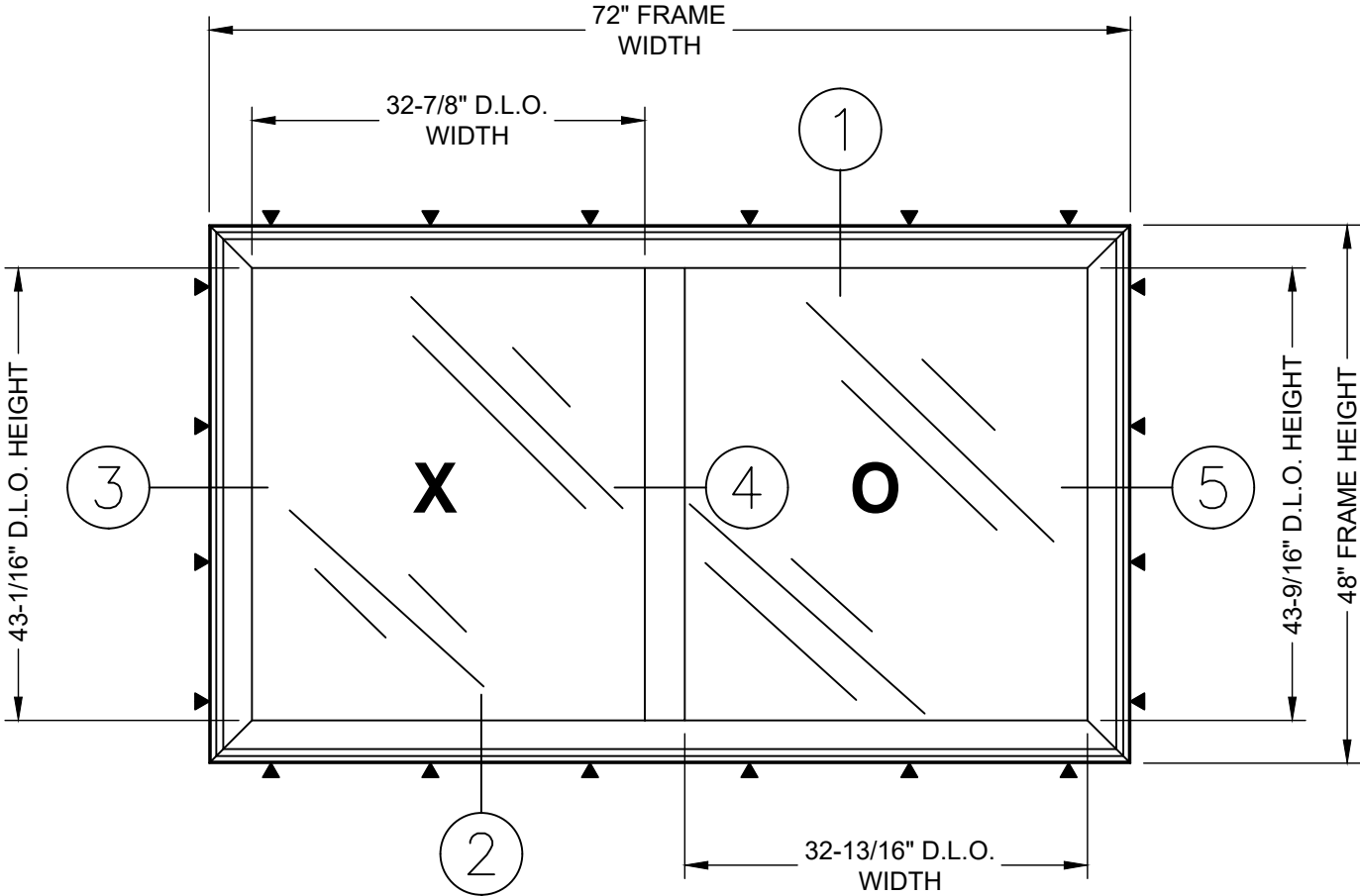
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SUITE NO. 148

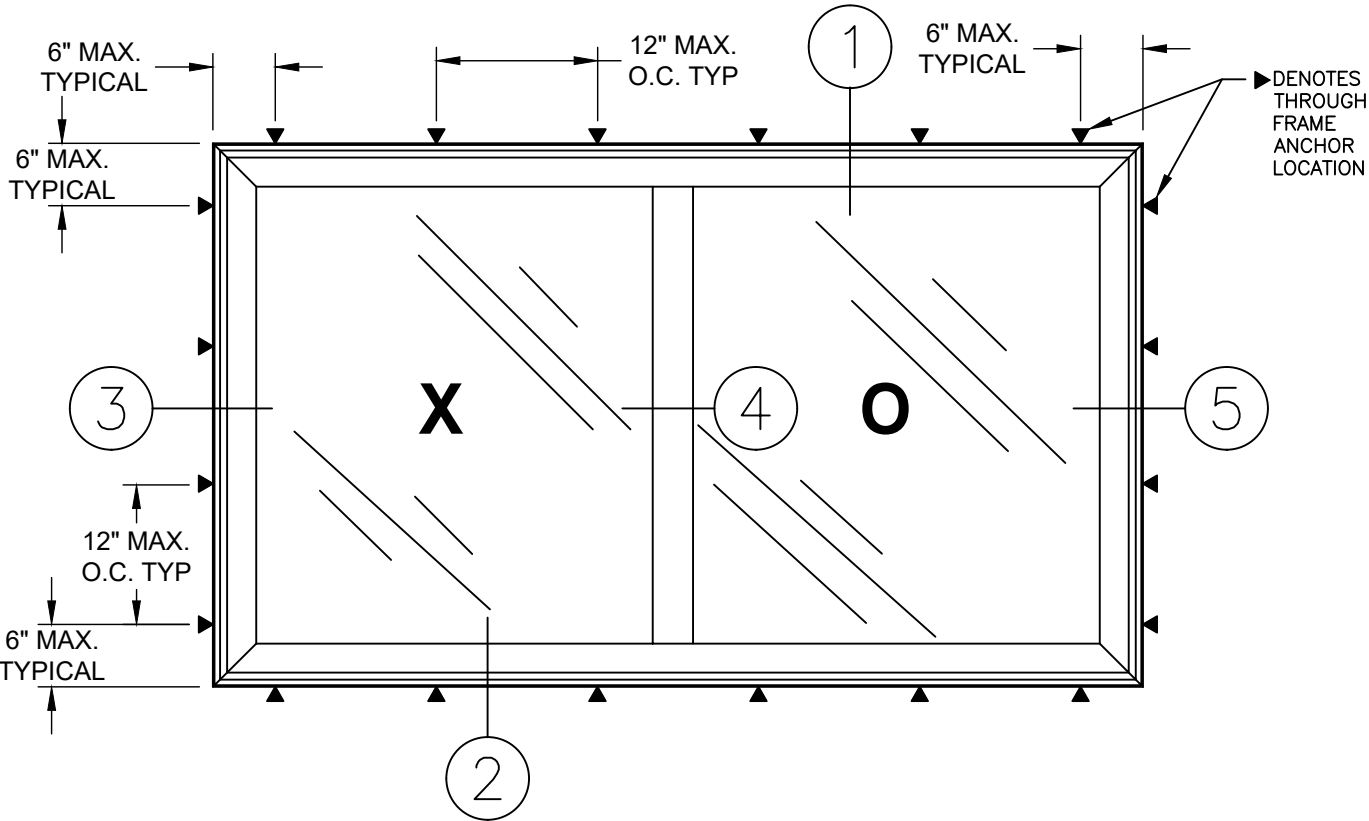
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SERIES FL 643 SS HORIZONTAL SLIDING WINDOW
ELEVATION VIEW AND ANCHORAGE LAYOUT
THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE



**ELEVATION
BLOCK FRAME**



**ANCHOR LAYOUT
THROUGH-FRAME TYPE
FRAME INSTALLATION**

FL 643 SS PRODUCT DIMENSIONS		
DAYLIGHT OPENING (D.L.O.)		
COMPONENT	WIDTH (IN)	HEIGHT (IN)
SASH	32 7/8	43 1/16
FIXED	32 13/16	43 9/16
SASH SIZE		
SASH SIZE	WIDTH (IN)	HEIGHT (IN)
	35 3/8	45 9/16
FRAME SIZE		
FRAME SIZE	WIDTH (IN)	HEIGHT (IN)
	72	48

PERFORMANCE RATING			
FRAME TYPE	MAXIMUM WINDOW SIZE (IN)	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
BLOCK	72 X 48	40	NONE

PROJECT NO. ACE-2020-107				BY
				DATE
				DESCRIPTION
				REV

LINDSAY WINDOWS LLC
1995 COMMERCE DRIVE
NORTH MANKATO, MN 56003

TITLE: SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX (NI)
ELEVATIONS - ANCHORAGE LAYOUT

DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

DATE: 6/6/20
DRAWING NO: 643.095SS_TF
SHEET: 2 OF 5

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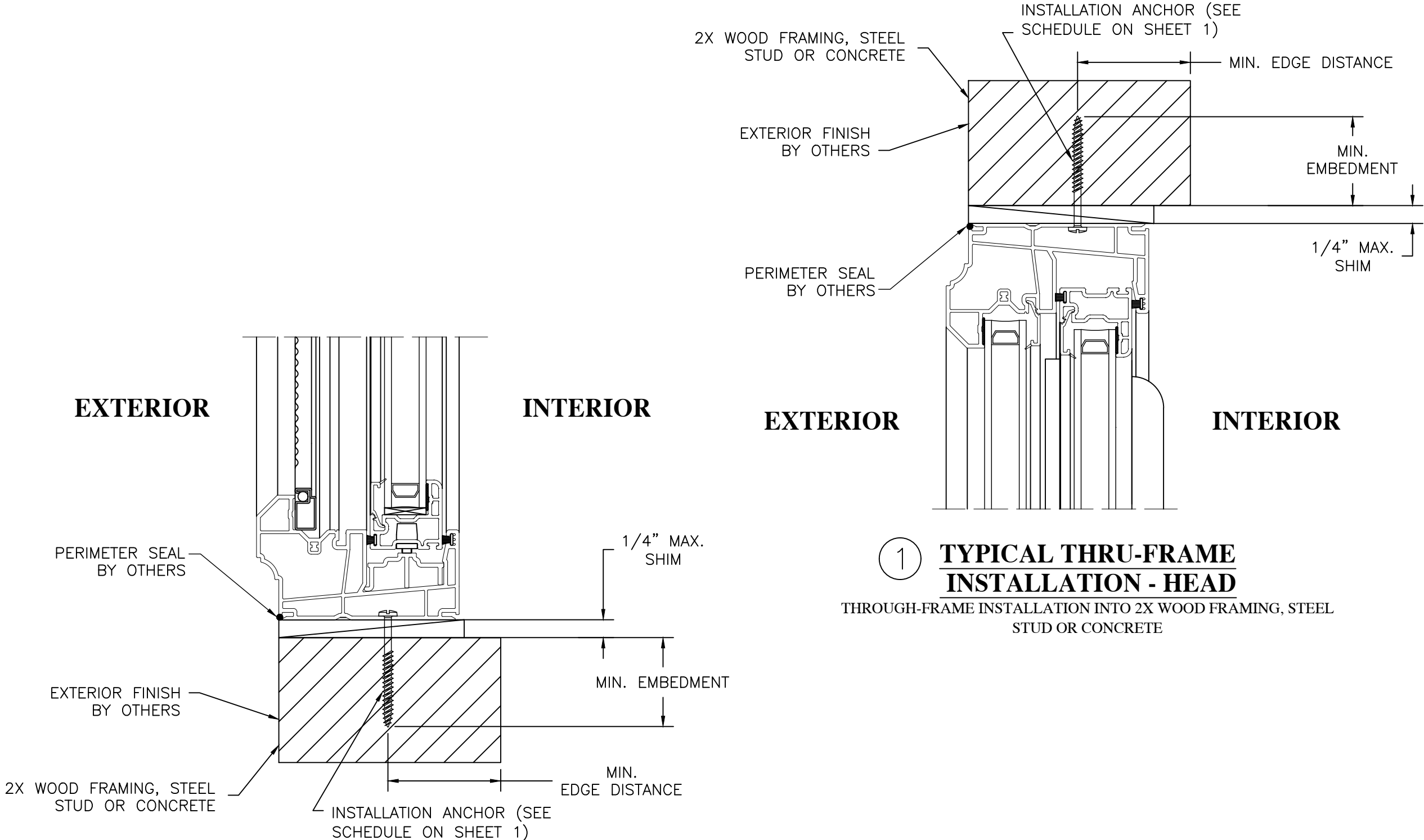
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SERIES FL 643 SS HORIZONTAL SLIDING WINDOW

VERTICAL SECTION VIEWS

THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE



1

TYPICAL THRU-FRAME
INSTALLATION - HEAD

THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE

2

TYPICAL THRU-FRAME
INSTALLATION - SILL

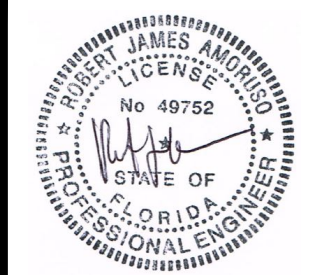
THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE

PROJECT NO. ACE-2020-107				BY
				DATE
				REV

LINDSAY WINDOWS LLC 1995 COMMERCE DRIVE NORTH MANKATO, MN 56003	TITLE: SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX (NI) VERTICAL SECTIONS - ANCHORAGE INSTALLATION DETAILS			
	DRAWN BY: RJA	DATE: 6/6/20	DRAWING NO: 643.095SS_TF	SHEET: 3 OF 5
	SCALE: N.T.S.	REV: ---	PH: 507-625-4278 FAX: 507-625-7211	



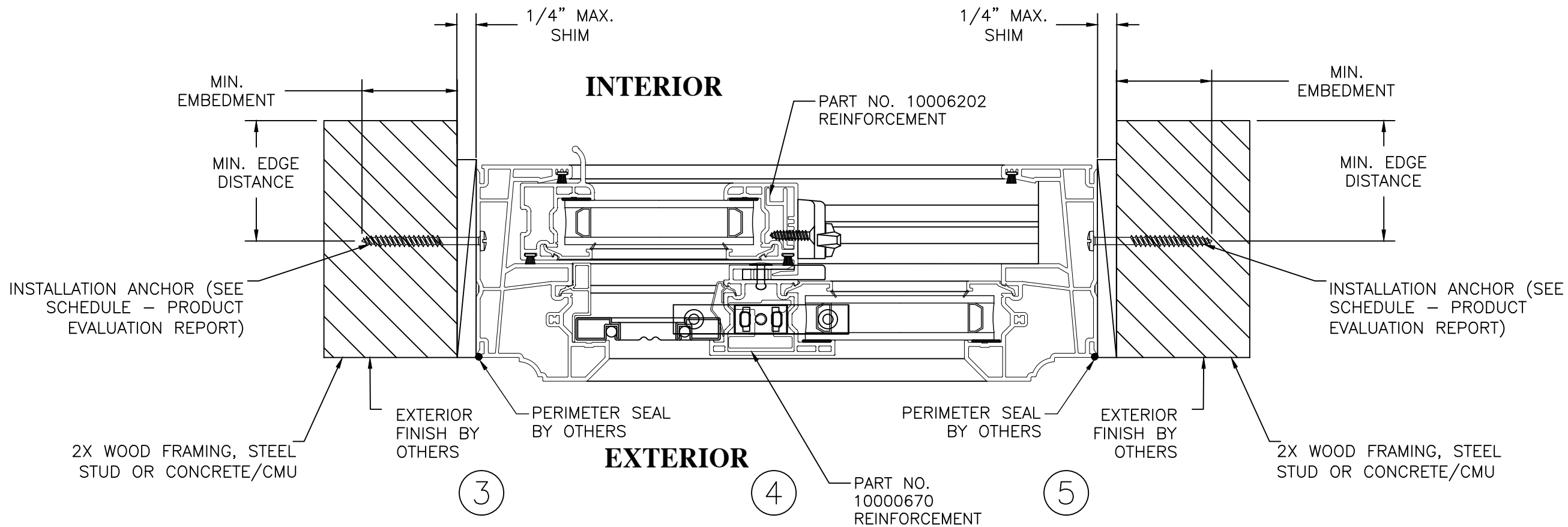
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SERIES FL 643 SS HORIZONTAL SLIDING WINDOW
HORIZONTAL SECTION VIEWS
THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE



TYPICAL THRU-FRAME INSTALLATION - JAMBS
THROUGH-FRAME INSTALLATION INTO 2X WOOD FRAMING, STEEL STUD OR CONCRETE/CMU

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				DATE
				DESCRIPTION
				REV

LINDSAY WINDOWS LLC
1995 COMMERCE DRIVE
NORTH MANKATO, MN 56003

TITLE: SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX (NI)
HORIZONTAL SECTIONS - ANCHORAGE INSTALLATION DETAILS

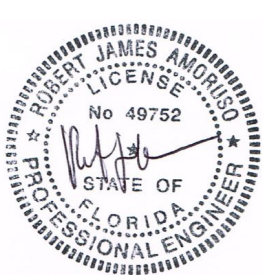
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DRAWING NO: 643.095SS_TF
SHEET: 4 OF 5

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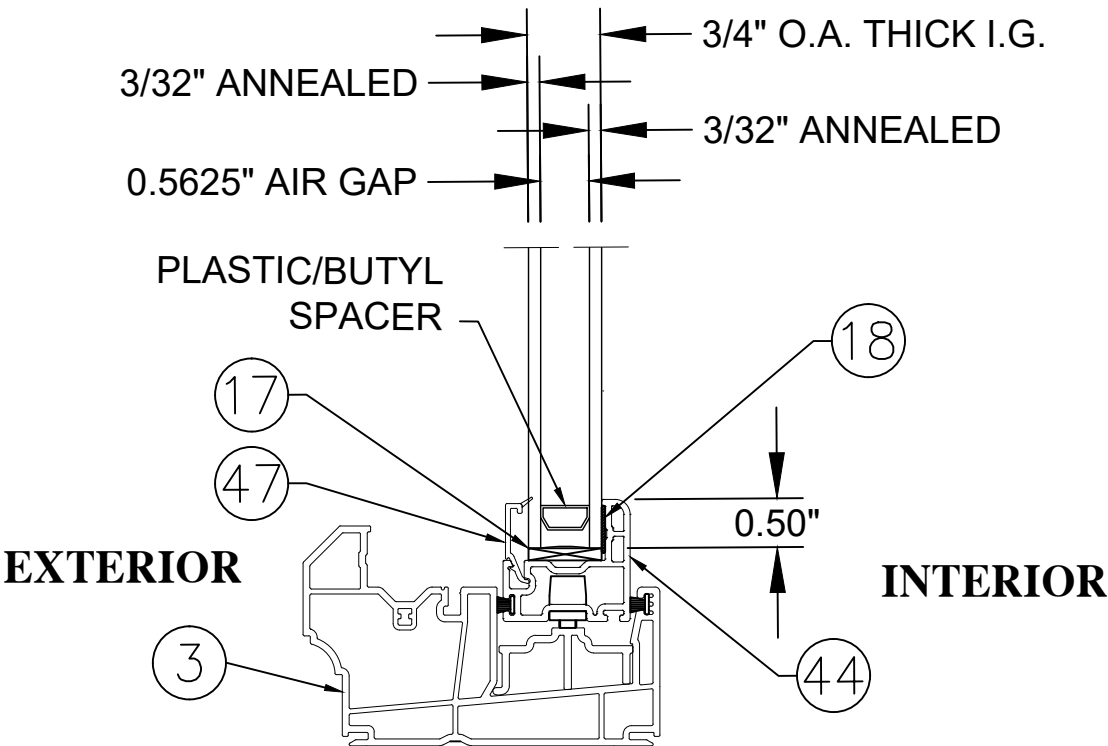
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SERIES FL 643 SS, FRAME - BILL OF MATERIALS

ITEM NO.	MAT. TYPE	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO
1	VINYL	HEAD	1	10008702	10008702-F-07
2	VINYL	JAMB	2	10008702	10008702-F-03
3	VINYL	SILL	1	10008702	10008702-F-08
4	VINYL	SLIDER TRACK INSERT	1	10008466	STRAIGHT CUT
5	VINYL	HORIZONTAL GLAZING BEAD	2	10008127 / 10005470 (optional)	STRAIGHT OR 45
6	VINYL	VERTICAL GLAZING BEAD	2	10008127 / 10005470 (optional)	STRAIGHT OR 45
7	VINYL	MEETING RAIL	1	10008511	10008511-F-18
8					
9		WEATHER STRIPPING - SILL	AS REQ'D	.187W X .270HT or .187W X .290HT	
10	VINYL	SCREEN RETAINER - FRAME	1	10005257	STRAIGHT CUT
11	VINYL	SCREEN RETAINER - MTG RAIL	1	10005258 / 10005259	STRAIGHT CUT
12		MEETING RAIL REINFORCEMENT	1	10000670	STRAIGHT CUT
13		MEETING RAIL ANCHOR	2	L-121	
14		MEETING RAIL GASKET	2	15314-00233	
15					
16		3/4" INSULATED GLASS		SEE SHEET 5 GLAZING DETAIL	
17		SETTING BLOCKS (REFER TO IG SUPPLIER GUIDELINES)		SEE SHEET 5 GLAZING DETAIL	
18		GLAZING COMPOUND		SEE SHEET 5 GLAZING DETAIL	
19					
20					
21		WEEP COVER	2	97-03	
22		KEEPER	1 OR 2	2600 - 401	
23					
24		MEETING RAIL SCREWS (TO FRAME)	4	#8 X 1" PHILLIPS FLAT HEAD - PAINTED	
25		MEETING RAIL SCREWS (TO FRAME)	2	#8 X 2.5" PHILLIPS TRUSS HEAD - SS	
26		KEEPER SCREWS	2 OR 4	#6 W/ #5 HEAD X 3/4" PFH (PAINTED)	
27		BALANCE SCREWS	AS REQ'D	#8 X 11/16" PPH - SS	
28					
29		SCREEN ASSEMBLY	1	3/8" X 3/4"	

SERIES FL 643 SS, SASH - BILL OF MATERIALS

ITEM NO.	MAT'L TYPE	DESCRIPTION	QUANTITY	PART NO.	FAB DWG. NO
41	VINYL	TOP RAIL	1	10008842	10008842-F-13
42	VINYL	LOCK RAIL	1	10008845	10008845-F-14
43	VINYL	PULL STILE	1	10008840	10008840-F-09
44	VINYL	BOTTOM RAIL (Ashland Roller)	1	10008842	10008842-F-14
45					
46					
47	VINYL	GLAZING BEAD	4	10008127	STRAIGHT CUT
48	VINYL	OPTIONAL GLAZING BEAD	4	10005470	STRAIGHT CUT
49					
50		3/4" INSULATED GLASS	1	SEE SHEET 5 GLAZING DETAIL	
51		GLAZING COMPOUND	AS REQ'D	SEE SHEET 5 GLAZING DETAIL	
52		SETTING BLOCKS (REFER TO IG SUPPLIER GUIDELINES)	AS REQ'D	SEE SHEET 5 GLAZING DETAIL	
53					
54		CENTER FIN WEATHERSTRIPPING	AS REQ'D	.290 HT. x .187 BK.	
55	ALUMINUM	SASH REINFORCEMENT (LOCK STILE ONLY)	AS REQ'D	10006202	STRAIGHT CUT
56					
57		SASH ROLLER	2 OR 4	79529	
58		LOCK /CAM	2 OR 4	2602 / 2802 (FER)	
59					
60		SCREW FOR LOCK ASSEMBLY	4 OR 8	#8 x 3/4 PAINTED PFH	



GLAZING DETAIL
3/4" O.A. IGU
FRAME & SASH SILL SHOWN
(ALL OTHER SECTIONS TYPICAL)

GLAZING METHOD
SET AGAINST DOUBLE-SIDED ADHESIVE
GLAZING TAPE AND SECURED WITH RIGID
VINYL GLAZING BEADS. SILICONE
SEALANT WAS APPLIED TO THE TAPE
INTERSECTIONS. THE SASH WAS
EXTERIOR GLAZED AND THE FIXED LITE
INTERIOR GLAZED WITH 1/2" GLASS BITE.

PROJECT NO. ACE-2020-107

LINDSAY WINDOWS LLC
1995 COMMERCE DRIVE
NORTH MANKATO, MN 56003

TITLE: SERIES FL 643 SS HORIZONTAL SLIDING WINDOW - XO, OX (NI)
BILL OF MATERIALS AND GLAZING DETAILS

DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

DATE: 6/6/20
DRAWING NO: 643.095SS_TF
SHEET: 5 OF 5

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