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Product Approval
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SECRETARY

FL #	FL27970-R4						
Application Type	Affirmation						
Code Version	2023						
Application Status	Approved						
Comments							
Archived	☐						
Product Manufacturer	Andersen Corporation						
Address/Phone/Email	100 Fourth Avenue North Bayport, MN 55003 (651) 264-5308 alan.barstad@AndersenCorp.com						
Authorized Signature	Alan Barstad alan.barstad@AndersenCorp.com						
Technical Representative							
Address/Phone/Email							
Quality Assurance Representative	Alan Barstad						
Address/Phone/Email	100 Fourth Avenue North Bayport, MN 55003 (651) 264-5308 abarstad@andersencorp.com						
Category	Windows						
Subcategory	Double Hung						
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received						
Florida Engineer or Architect Name who developed the Evaluation Report	Hermes F. Norero, P.E.						
Florida License	PE-73778						
Quality Assurance Entity	Window and Door Manufacturers Association-QA						
Quality Assurance Contract Expiration Date	12/16/2030						
Validated By	Zachary R. Priest, P.E. ☐ Validation Checklist - Hardcopy Received						
Certificate of Independence	FL27970 R4 COI COI Andersen SS 2015-08-31.pdf						
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th><th>Year</th></tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA 101/I.S.2/A440</td><td>2011</td></tr> <tr> <td>TAS 201</td><td>1994</td></tr> </tbody> </table>	Standard	Year	AAMA/WDMA/CSA 101/I.S.2/A440	2011	TAS 201	1994
Standard	Year						
AAMA/WDMA/CSA 101/I.S.2/A440	2011						
TAS 201	1994						

TAS 202
TAS 2031994
1994Equivalence of Product Standards
Certified By

Sections from the Code

☒ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity ☐ Yes ☐ No ☐ N/A[FL27970_R4_COC_SA27970_SS_2023-06-19.pdf](#)

Product Approval Method

Method 1 Option D

Date Submitted

08/08/2023

Date Validated

08/08/2023

Date Pending FBC Approval

Date Approved

08/09/2023

Date Revised

08/27/2024

Summary of Products

FL #	Model, Number or Name	Description
27970.1	Renewal by Andersen DG Series Double Hung Window (Non-Impact) (Non-HVHZ)	Renewal by Andersen DG Series Double Hung Window (Non-Impact) (Non-HVHZ)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL27970_R4_II_AWD234_SS_2018-12-16.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL27970_R4_AE_PER5531_SS_2018-08-17.pdf Created by Independent Third Party: Yes
27970.2	Renewal by Andersen Double Hung Window (HVHZ) (Impact)	Renewal by Andersen Double Hung Window (HVHZ) (Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See Installation Instructions and Product Evaluation Report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL27970_R4_II_AWD291_SS_2021-06-15.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL27970_R4_AE_PER7620_SS_2021-06-15.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



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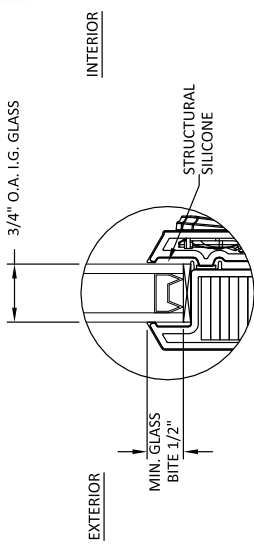
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AW
WINDOWS • DOORS

8. IN ACCORDANCE WITH THE CURRENT EDITION FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES AS DEFINED IN CHAPTER 23.

NOTE:

1. GLASS TYPE THICKNESS SHALL COMPLY WITH ASTM E-1300 GLASS CHART REQUIREMENTS.
2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CURRENT CBC
3. SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER CH 24 OF THE CURRENT CBC.
4. GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 1/4 SPAN FROM CORNERS.

DESIGN PRESSURE UPGRADE RATING									
SILL TYPE	MAX OVERALL SIZE		MAX D.I.O. SIZE			DESIGN PRESSURE	RATIO	CONFIG.	MISSILE IMPACT RATING
	WIDTH	HEIGHT	WIDTH	UPPER SASH	LOWER SASH				
FLAT OR SLOPE	30.0	68.0	23-15/16	29-3/8	29-3/8	+50/-65			NON-IMPACT
	36.0	68.0	29-15/16	29-3/4	29-3/4				
	40.0	72.0	33-15/16	31-3/8	31-3/8				
FLAT	40.0	76.0	33-15/16	33-3/8	33-3/8		1:1	X/X	NON-IMPACT
SLOPE	40.0	75.3	33-15/16	33-2/5	33-2/5				
FLAT	36.0	62.0	29-15/16	26-3/8	26-3/8				
SLOPE	36.0	61.3	29-15/16	26-2/5	26-2/5	+69/-81			



GLAZING DETAIL 1

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	A	INSTALLATION AND GENERAL NOTES
2	-	ELEVATIONS & ANCHOR LAYOUTS
3	-	ELEVATIONS & ANCHOR LAYOUTS
4	-	VERTICAL SECTIONS
5	-	VERTICAL SECTIONS
6	-	HORIZONTAL SECTIONS
7	-	INSTALLATION NOTES, REINFORCEMENT & ANCHOR DETAILS

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2018.12.16-19:37:54 -0500



HERMES F. NORRIS, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. #
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO.

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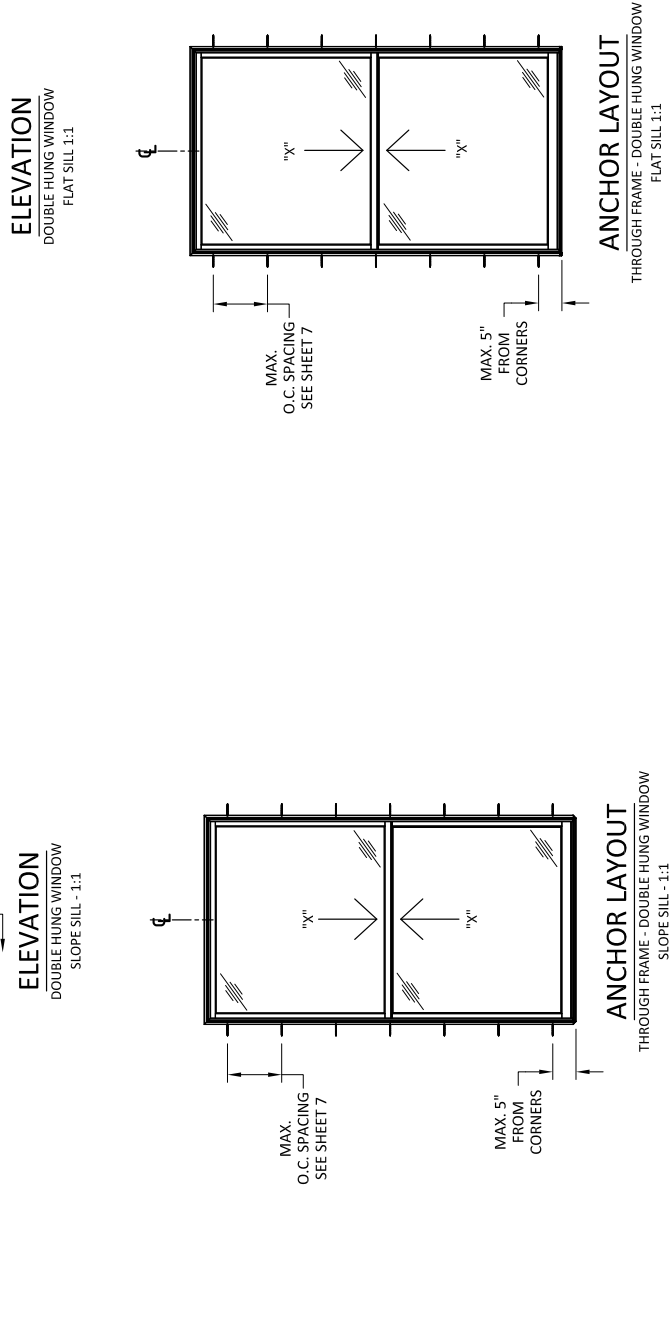
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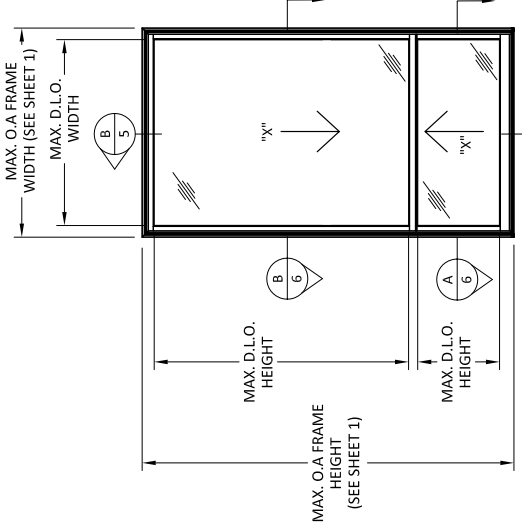
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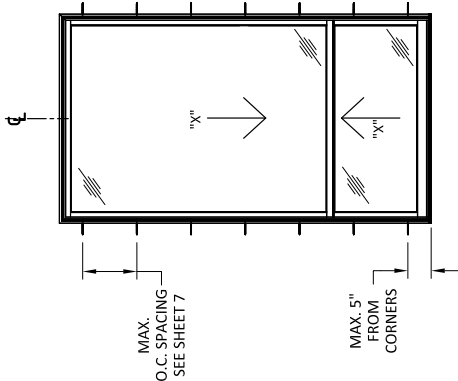
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ELEVATION



ANCHOR LAYOUT

THROUGH FRAME - DOUBLE HUNG WINDOW

FLAT SILL 3:1

100 CORTLAND AVENUE NORTH
BAYPORT, MN 55808-1096
PH: (651) 264-5150, FX: (651) 264-5485

PREPARED BY:

BUILDING DROPS, INC.
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FLORIDA P.E. No. 73778
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DANIA BEACH, FL 33004
FIBRE CERT. OF AUTHORIZATION No. 29578

TITLE: DG SERIES DOUBLE HUNG WINDOW (NON-IMPACT)(NON-HVHZ) VERTICAL SECTIONS

REMARKS: SIZE GRID UPDATE HR 11.26.18

BY: DATE

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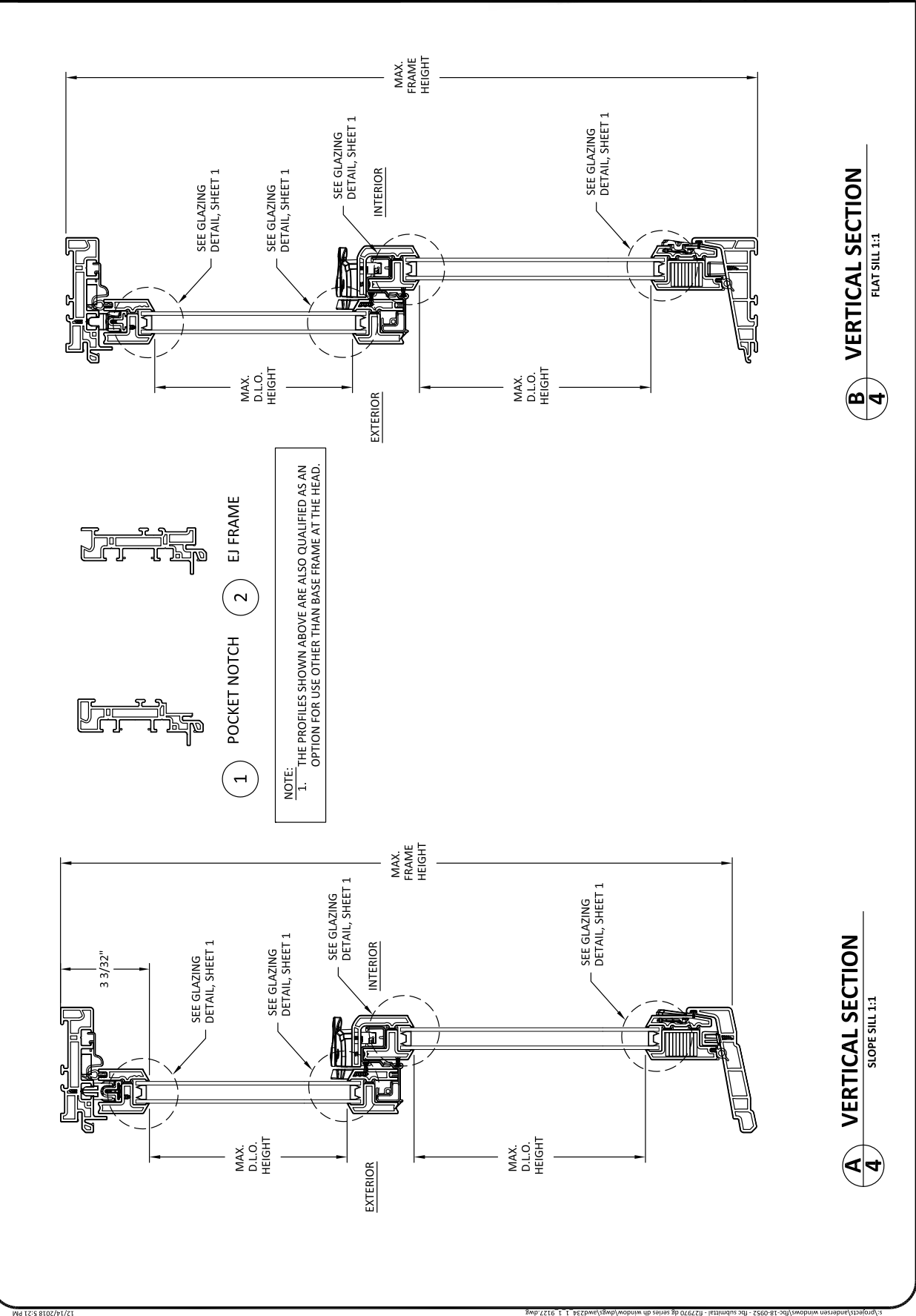
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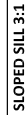
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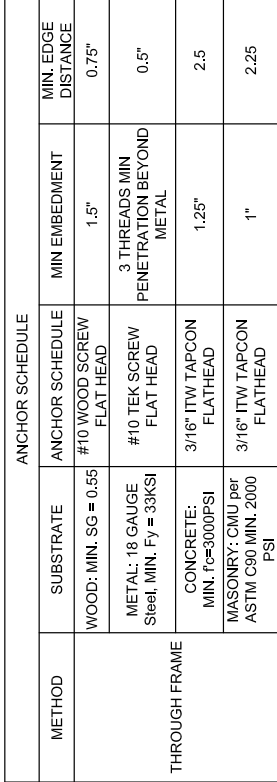
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SHEET: 4







Anchor Schedule - Max O.C. Spacing		
Fixed Upper Sash Double Hung Grid (INSERT AND BASE FRAME), +/- 40 PSF		
	Width (in.)	
Height (in.)	24	32
27	8.5	8.5
36	13.0	13.0
48	19.0	12.7
60	24.0	16.7
72	20.7	15.5
76	22.0	13.2
Anchor Schedule - Max O.C. Spacing		
DP Upgrade Double Hung Grid, +69/-81 PSF		
	Width (in.)	
Height (in.)	62	36
		16.5

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE $1/4$ INCH. SHIM WHERE SPACE OF $1/16$ INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. DG JAMB SHIM TO BE USED BETWEEN THE FRAME AND THE $1/4$ INCH. SHIM STACK.
6. FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

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