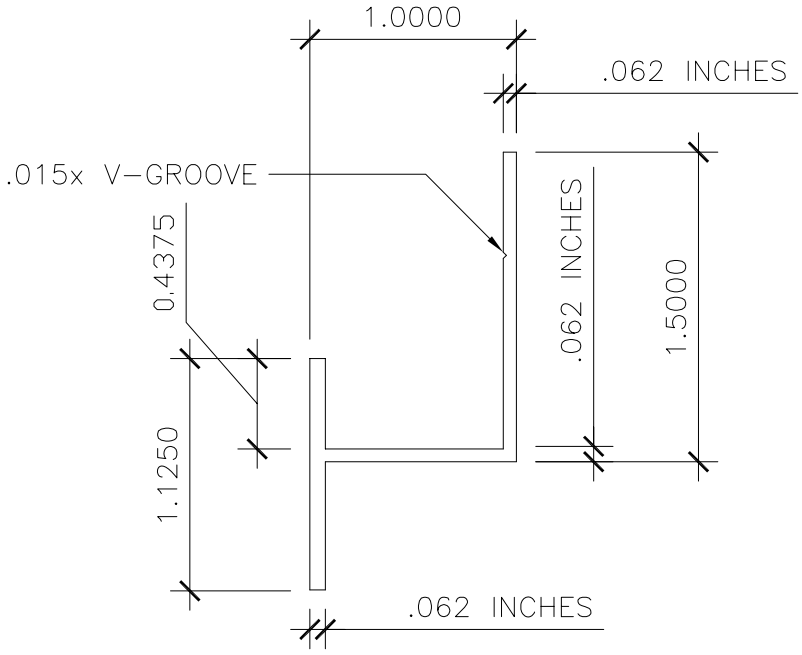
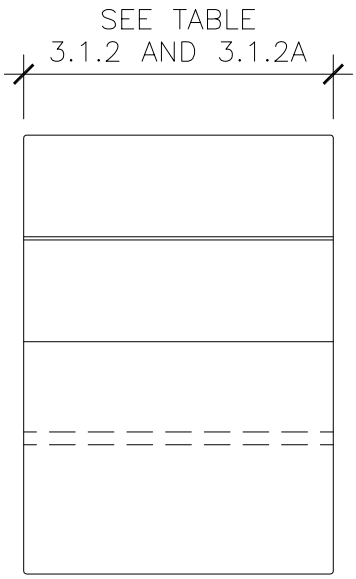
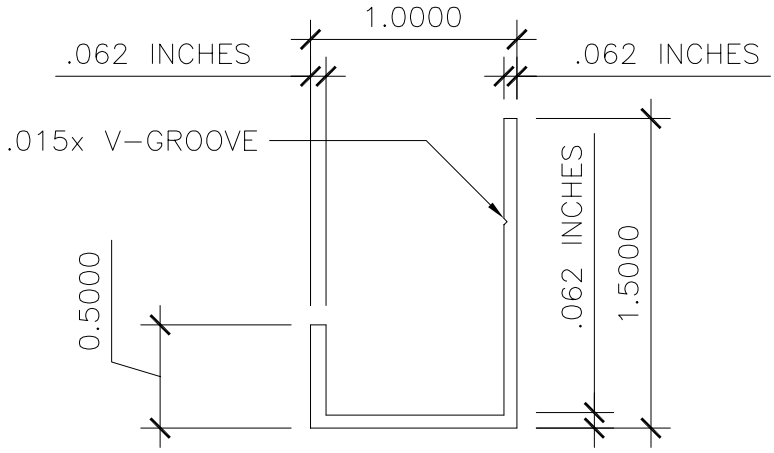
ANCHORING SYSTEM,
PLANNING AND INSTALLATION GUIDE



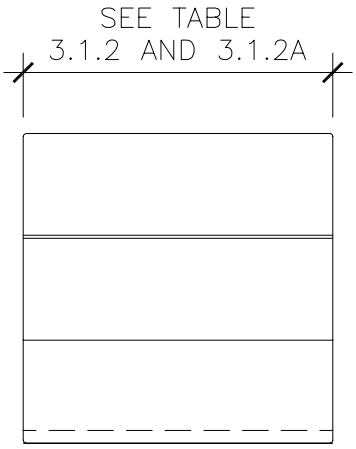
1 PROFILE: DOUBLE ANCHOR



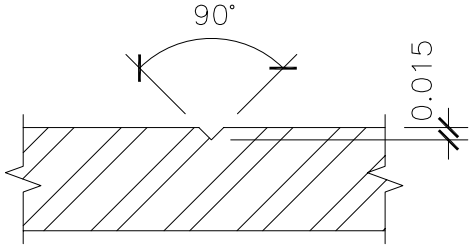
2 VIEW: DOUBLE ANCHOR



3 PROFILE: SINGLE ANCHOR



4 VIEW: SINGLE ANCHOR



5 V-GROOVE

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DOUBLE/SINGLE ANCHOR

3.1.1

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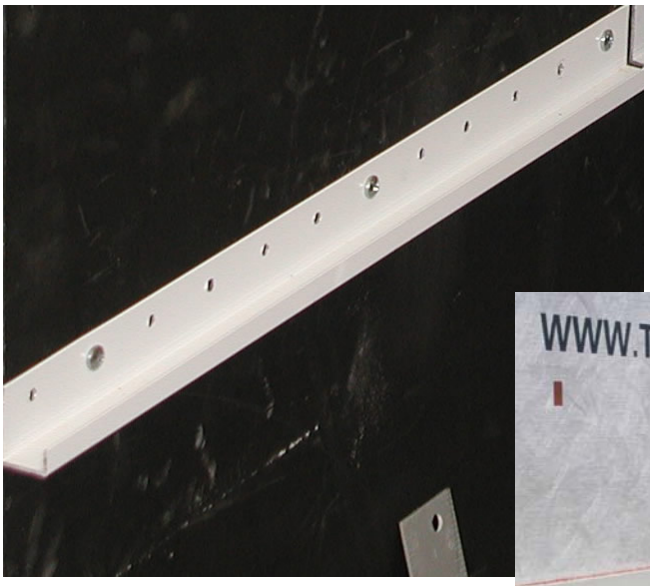

J-Anchor
(See p. 3.1.1 of
ALC Solution Manual)

T-Anchor
(See p. 3.1.1 of
ALC Solution Manual)

T-Anchor being cut to size on jobsite

REQUIRED ANCHOR WIDTH/DEADWEIGHT

FOR 1" THICK STONE

ANCHOR WIDTH (INCHES)

TOTAL PANEL WEIGHT (lbs.)	ONE ANCHOR PER STONE	TWO ANCHORS PER STONE
10	1.50 1 SCREW	1.50 1 SCREW
15	1.50	1.50
20	1.65	1.50
25	2.06	1.50
30	2.47	1.50
35	2.88 2 SCREWS	1.50
40	3.29	1.65
45	3.71	1.86
50	4.12	2.06
55	4.53	2.27
60	4.94	2.47
65	5.36 3 SCREWS	2.68 2 SCREWS
70	5.77	2.89
75	6.18	3.09
80	6.59	3.30
85	7.00	3.50
90	7.42	3.71
95	7.83 4 SCREWS	3.92
100	8.24	4.12

FOR SCREW SIZES SEE: 3.1.3; 3.1.5A; 3.1.5B; 3.1.5C

NOTE: THE STRUCTURAL MEMBER AND FASTENER SIZES SHOULD ONLY BE USED AS GENERAL GUIDELINES. SPECIFIC DETAILS MUST BE REVIEWED BY A PROFESSIONAL STRUCTURAL ENGINEER TO VERIFY THEIR ADEQUACY.

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REQUIRED ANCHOR WIDTH/STONE SLOT STRENGTH

FOR 1" THICK STONE

PANEL FACE AREA (sq.ft.)	ANCHOR WIDTH (INCHES) IF TWO ANCHORS PER STONE	ANCHOR WIDTH (INCHES) IF FOUR ANCHORS PER STONE
1.0	1.50	1.50
2.0	2.67	1.50
2.5	3.33	1.67
3.0	4.00	2.00
3.5	4.67	2.33
4.0	5.33	2.67
5.0	N/A	3.33
6.0	N/A	4.00
7.0	N/A	4.67
8.0	N/A	5.33
9.0	N/A	6.00
10.0	N/A	6.67
11.0	N/A	7.33
12.0	N/A	8.00
13.0	N/A	8.67
14.0	N/A	9.33
15.0	N/A	10.00
16.0	N/A	10.67

NOTE: THE STRUCTURAL MEMBER AND FASTENER SIZES SHOULD ONLY BE USED AS GENERAL GUIDELINES. SPECIFIC DETAILS MUST BE REVIEWED BY A PROFESSIONAL STRUCTURAL ENGINEER TO VERIFY THEIR ADEQUACY.

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REQUIRED ANCHOR WIDTH/STONE SLOT STRENGTH

3.1.2A

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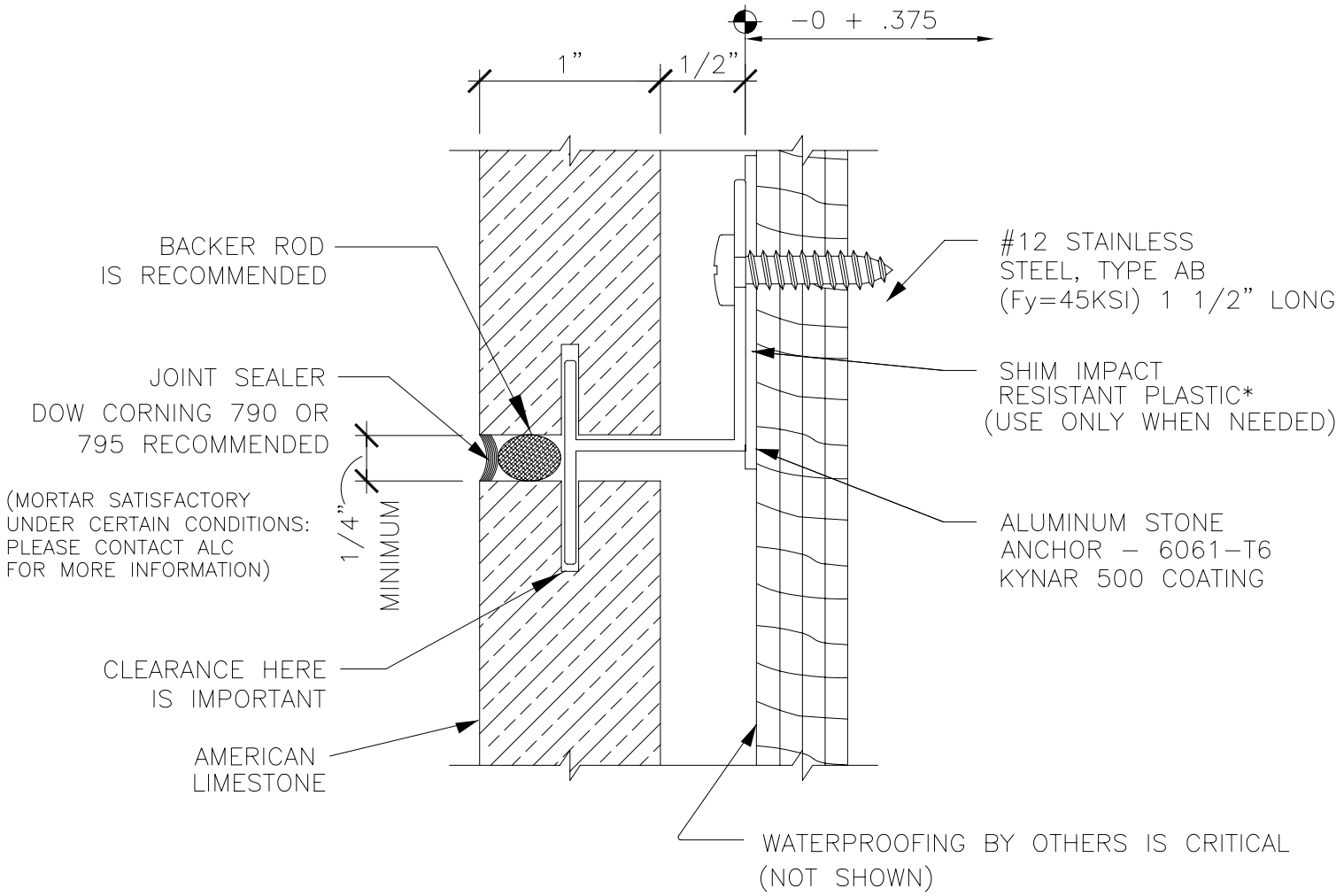
MANY TYPES OF PANELS CAN BE USED FOR THE EXTERIOR SHEATHING; HOWEVER THEY MUST BE APA PERFORMANCE RATED. THESE INCLUDE ORIENTED STRAND BOARD (OSB) AS WELL AS MANY GRADES OF PLYWOOD. WE WOULD PREFER:

APA STRUCTURAL 1 RATED SHEATHING EXPOSURE 1 5/8" THICK, MINIMUM.

THE PANELS SHOULD HAVE A 1/8" SPACING AT ALL EDGES AND END JOINTS. THE PANELS SHOULD BE NAILED WITH 8D NAILS SPACED AT 6" O.C. AT SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.



1 TYPICAL JOINT AT ANCHOR

*IF SHIM SPACE EXCEEDS 3/8", CONSULT A PROFESSIONAL ENGINEER.

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TYPICAL JOINT AT ANCHOR
ATTACH TO WOOD OR STEEL STUDS

3.1.3

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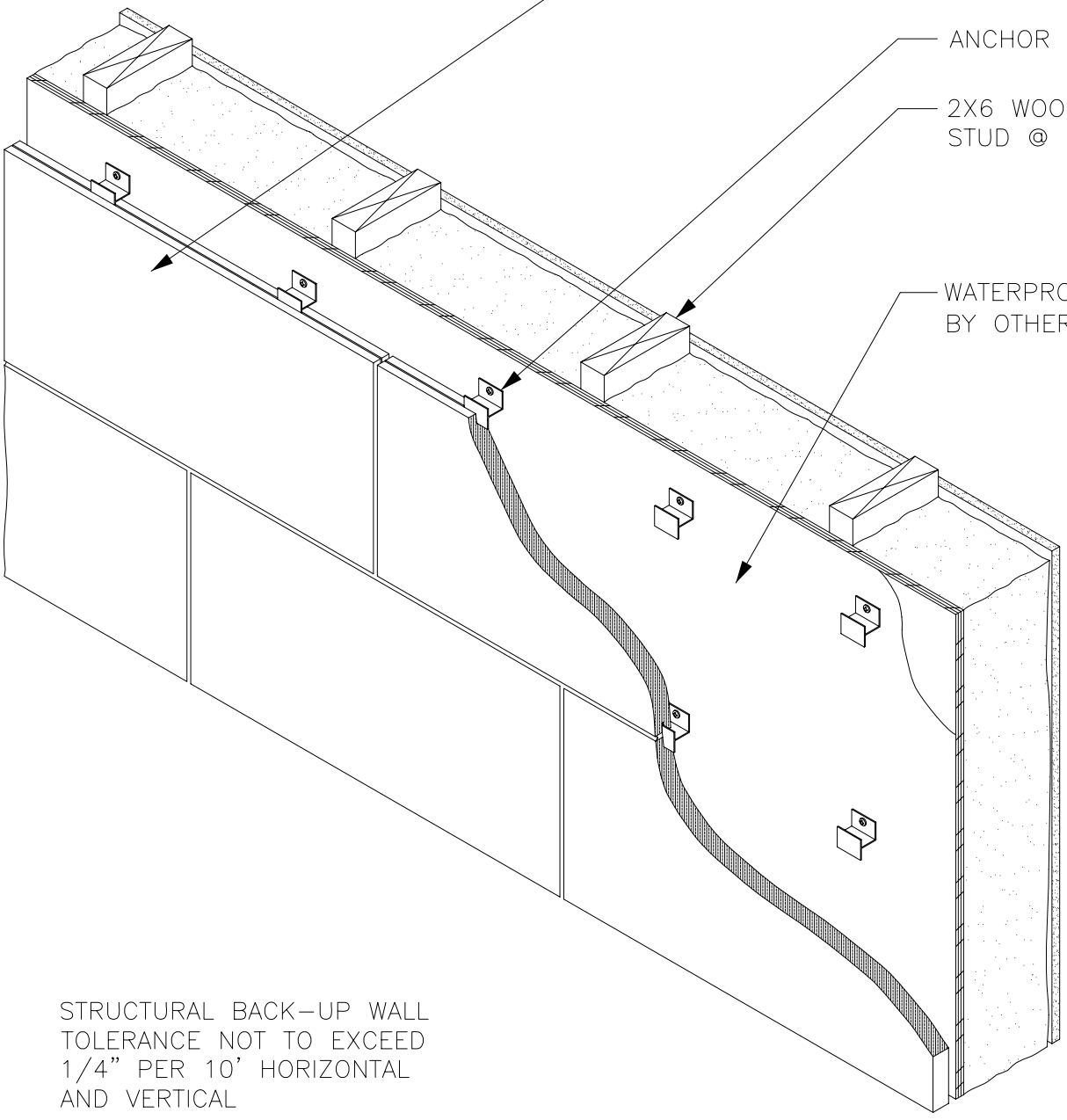
LOADING CRITERIA:

STONE WEIGHT	145 PCF
WIND LOAD	20 PSF
SEISMIC ZONE	0

(PLEASE CHECK WITH ALC)



STRUCTURAL BACK-UP WALL TOLERANCE NOT TO EXCEED 1/4" PER 10' HORIZONTAL AND VERTICAL

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TYPICAL WALL INSTALLATION – OPTION 1

3.1.4

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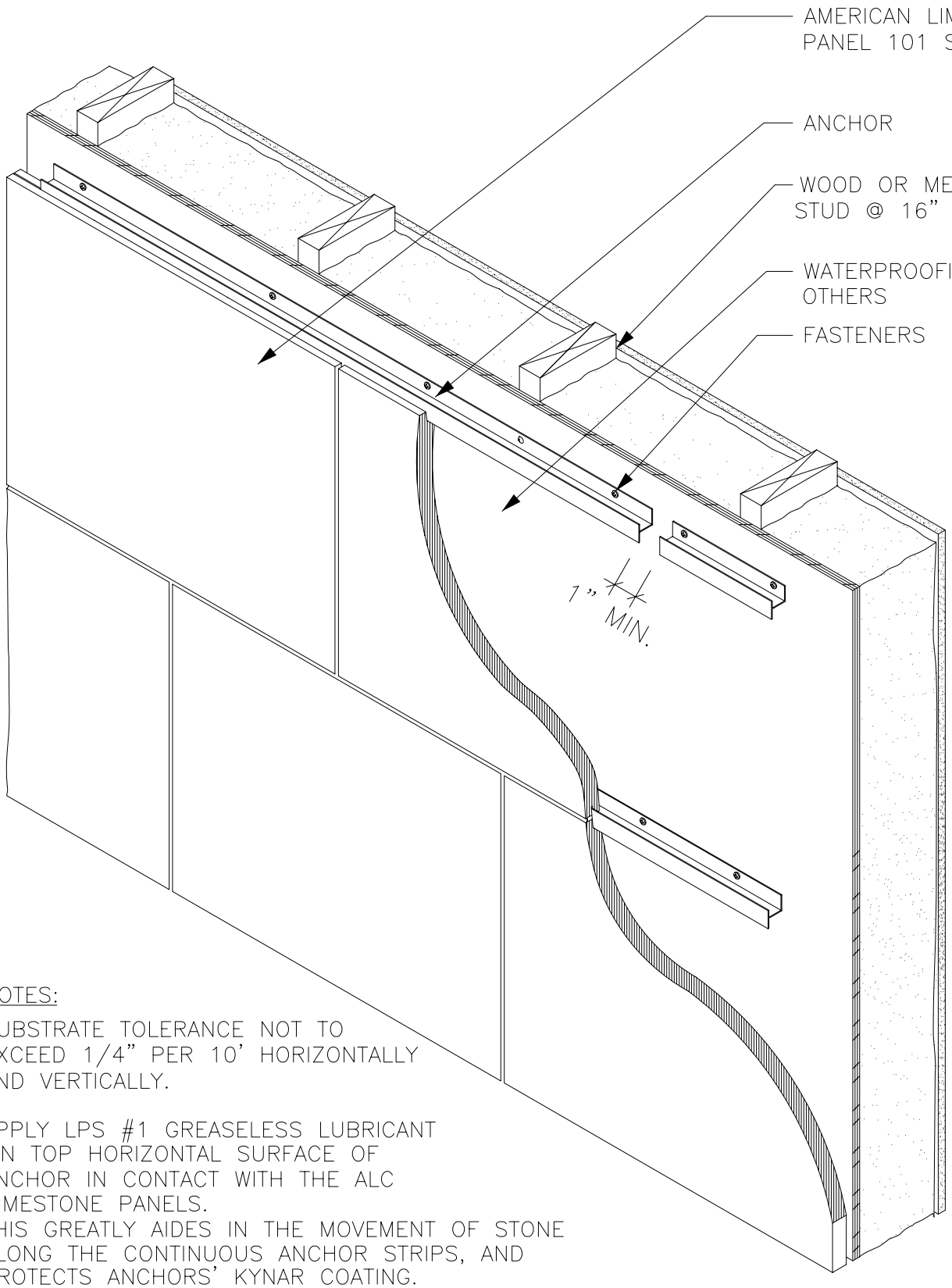
Individual Anchor Installation
(See p. 3.1.4 of ALC Solution Manual)

Individual Anchor Installation
(See p. 3.1.4 of ALC Solution Manual)



NOTES:

1. SUBSTRATE TOLERANCE NOT TO EXCEED 1/4" PER 10' HORIZONTALLY AND VERTICALLY.

2. APPLY LPS #1 GREASELESS LUBRICANT ON TOP HORIZONTAL SURFACE OF ANCHOR IN CONTACT WITH THE ALC LIMESTONE PANELS. THIS GREATLY AIDES IN THE MOVEMENT OF STONE ALONG THE CONTINUOUS ANCHOR STRIPS, AND PROTECTS ANCHORS' KYNAR COATING.

3. ALLOW 1" MIN. GAP BETWEEN CONTINUOUS ANCHORS TO PROVIDE SEEPAGE.

STONE WEIGHT	145 PCF
WIND LOAD	20 PSF

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TYPICAL WALL INSTALLATION – OPTION 2

3.1.5

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Continuous Anchor Installation
(See p. 3.1.5 of ALC Solution Manual)