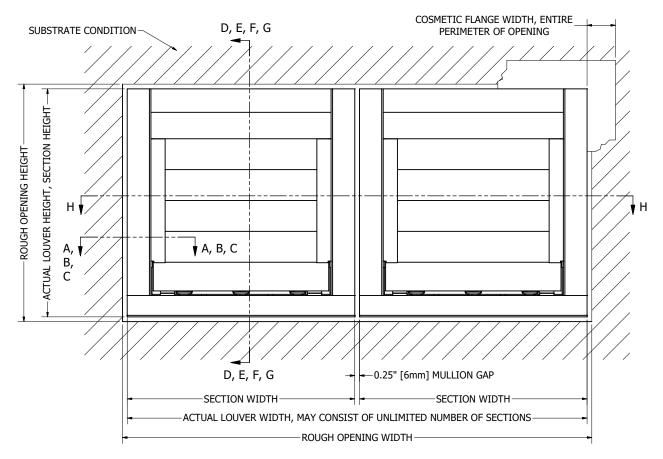


Installation, Operation and Maintenance Manual

Please read and save these instructions for future reference. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with these instructions will result in voiding of the product warranty and may result in personal injury and/or property damage.

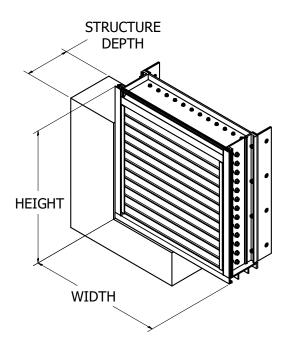
CONFIGURATION: FLUSH MOUNT OR COSMETIC FLANGE (COSMETIC FLANGE IS THE FLUSH MOUNT CONFIGURATION WITH THE ADDITION OF NON-STRUCTURAL EXTERIOR PERIMETER FLANGES) MOUNT LOCATION: REAR / INTERIOR JAMB ANCHOR LOCATION: DETAILS A, B, C, D HEAD & SILL ANCHOR LOCATION: DETAILS E, F, G, H (BELOW IS VIEWED FROM EXTERIOR)

HEAD & SILL ANCHOR LOCATION REQUIRED FOR MULTI-SECTION WIDE ASSEMBLIES AND ARE OPTIONAL FOR SINGLE WIDE SECTIONS. JAMB ANCHOR LOCATION ONLY AVAILABLE ON SINGLE WIDE SECTIONS.

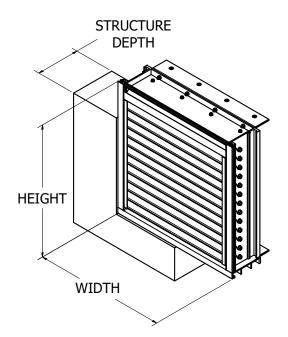


FIELD WORK: LOUVER HAS FACTORY SEALED EDGES AND JOINTS. THE SEALING NOTED HEREIN IS OPTIONAL AND MAY OR MAY NOT BE REQUIRED PER THE PROJECT'S SPECIFICATIONS. INSTALLER SHALL SEAL THE PRODUCT AND INTERFACES IN ORDER TO COMPLY WITH THE PROJECT'S SPECIFICATIONS (SUCH AS AMCA 550). INSTALLER SHALL SEPARATE DISSIMILAR MATERIALS AS REQUIRED PER PROJECT'S SPECIFICATIONS. ANCHORS, SEALANT, BACKER ROD, SHIMS, ITEMS TO SEPARATE DISSIMILAR MATERIAL, ARE NOT BY LOUVER MANUFACTURER. DESIGN OF SUBSTRATE IS NOT BY LOUVER MANUFACTURER, SEE ANCHOR TABLES FOR SUBSTRATE REQUIREMENTS.

STANDARD ANCHOR LOCATION: JAMB

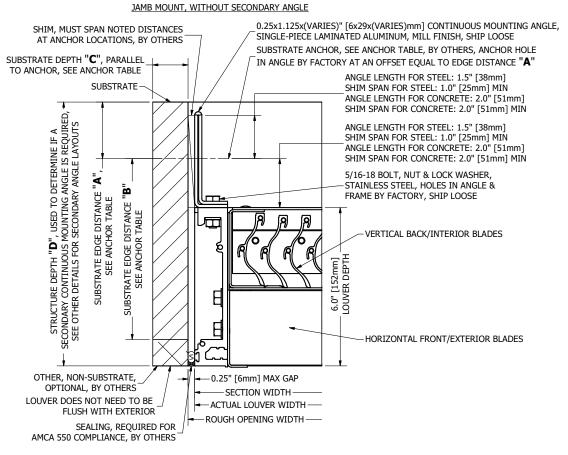


OPTIONAL ANCHOR LOCATION: HEAD AND SILL

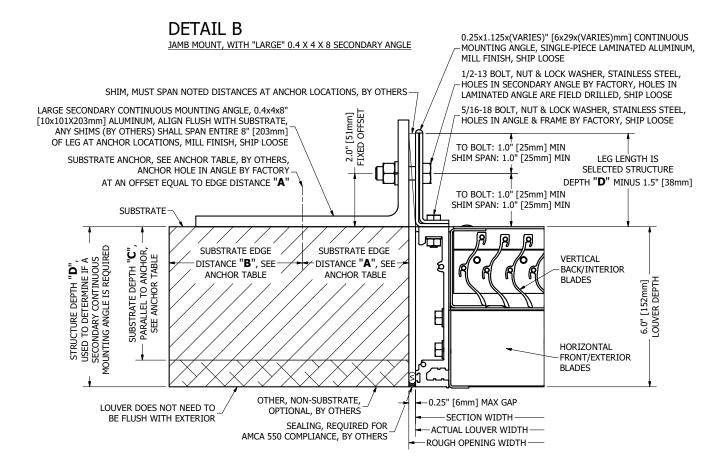


FLUSH/RECESSED, ALLOWABLE SECTION SIZES							
SUBSTRATE	TE CTDUCTUDE AUCTION		MAX SECTION SIZE (MILL OR PAINTED)	NOTES			
		JAMBS		STRUCTURE DEPTH "D" LESS THAN 11" [279mm] REQUIRES THE SMALL SECONDARY MOUNTING ANGLE.			
CRACKED CONCRETE	5" [127mm] OR MORE	HEAD & SILL	48" x 96" [1.219m x 2.438m]	MAX HEIGHT IS 84" [2.134m] IF STRUCTURE DEPTH "D" IS LESS THAN 13" [330mm]. STRUCTURE DEPTH "D" LESS THAN 13" [330mm] REQUIRES A SECONDARY MOUNTING ANGLE. MAX HEIGHT IS 64" [1.626m] FOR SMALL SECONDARY MOUNTING ANGLE. MAX HEIGHT IS 84" [2.134m] FOR LARGE SECONDARY MOUNTING ANGLE.			
GROUT FILLED CMU	8" [203mm]		JAMBS	48" x 96" [1.219m x 2.438m]	LARGE SECONDARY MOUNTING ANGLE IS ALWAYS REQUIRED.		
	NOMINAL OR MORE	HEAD & SILL	48" x 78" [1.219m x 1.981m]	LARGE SECONDART WOON TING ANGLE IS ALWATS REQUIRED.			
STEEL	5" [127mm]	JAMBS	48" x 96"	STRUCTURE DEPTH "D" LESS THAN 9" [229mm] REQUIRES			
	OR MORE	HEAD & SILL	[1.219m x 2.438m]	THE SMALL SECONDARY MOUNTING ANGLE.			
OTHER SUBSTRATES, STRUCTURE DEPTHS, AND SECTION SIZES (UP TO 48" x 96" [1.219m x 2.438m] MAX), ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.							

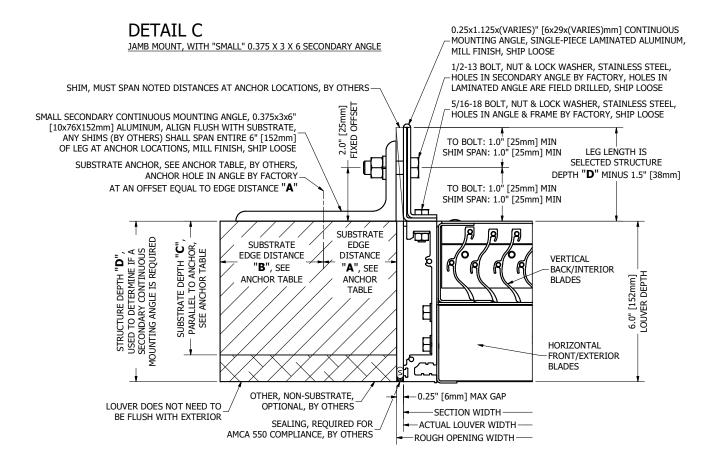
DETAIL A



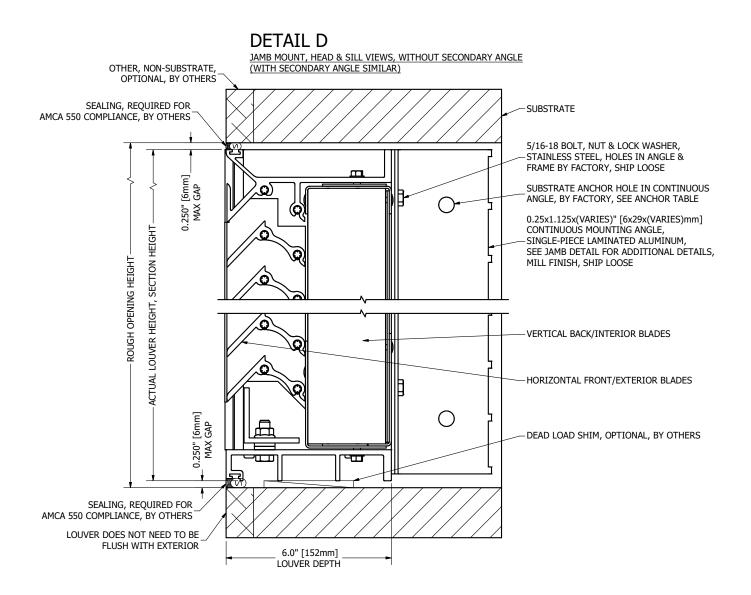
FLUSH	/RECESSED, JAMB	MOUNT, WITHOU	T SECONDARY MOUNTING ANGLE, ANC	CHOR TABLE & INFORM	ATION		
SUBSTRATE (1)	"D" OVERALL STRUCTURE DEPTH (2)	MAX SECTION SIZE PER ANCHOR TYPE (3)	ANCHOR DETAILS (1)	"A" & "B" SUBSTRATE MIN EDGE DISTANCES, PICK ONE FOR "A" THEN "B" IS THE OTHER	"C" SUBSTRATE MIN DEPTH PARALLEL TO ANCHOR		
CRACKED CONCRETE NORMAL WEIGHT,	11" [279mm] OR MORE	48" x 96"	1/2" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3" [76mm] NOM, 10" [254mm] MIN OC	2.875" [73mm] & 6" [152mm]	5" [127mm]		
F'c 3 KSI [20.7 MPA], ANCHOR DIAMETERS ARE FIXED		OR MORE [1.219m x 2.438m]	1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 3" [76mm] NOM, 10" [254mm] MIN OC"	2.875" [73mm] & 6" [152mm]	4.75" [121mm]		
GROUT FILLED CMU	UT FILLED CMU SEE LARGE SECONDARY MOUNTING ANGLE ANCHOR TABLES FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).						
STEEL	9" [229mm]	48" x 96"	1/2-13 BOLT & NUT, 300 SS, 12" [305mm] MAX OC	1" [25mm] & 1" [25mm]	0.188" [5mm]		
A36	OR MORE	[1.219m x 2.438m]	1/2-13 BOLT & TAPPED HOLE, 300 SS, 12" [305mm] MAX OC		0.25" [6mm]		
1) OTHER SUBSTRATES,	ANCHOR TYPES, DIAN	1ETERS, ALLOYS, EMBEL	DMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E.	ANALYSIS & STAMPING, BY	OTHERS.		
2) DEPTHS LESS THAN SHOWN REQUIRE THE LARGE OR SMALL SECONDARY ANGLE MOUNTING CONFIGURATION.							
3) MAX POSSIBLE SECTION SIZE IS 48" x 96" [1.219m x 2.438m].							
MAXIMUM 3" [76mm]	END OFFSET, WHICH N	IEANS FOR VERY SHOR	IERWISE INDICATED. FOR CONCRETE/CMU, CONT T MOUNTING ANGLE LENGTHS, THE MINIMUM O NIMUM A 5.5" ON CENTER SPACING (FROM 11.5'	N CENTER IS REDUCED FROM			



SUBSTRATE (1)	"D" OVERALL STRUCTURE DEPTH	MAX SECTION SIZE PER ANCHOR TYPE (2)	ANCHOR DETAILS (1)	"A" & "B" SUBSTRATE MIN EDGE DISTANCES	"C" SUBSTRATE MIN DEPTH PARALLEL TO ANCHOR		
CRACKED CONCRETE	SEE SMALL MOUNTING ANGLE ANCHOR TABLE FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).						
GROUT FILLED CMU 8" [203mm] NOM, ASTM C90, TYPE N, F'm 2 KSI [13.8 MPA], ANCHOR DIAMETERS ARE FIXED		48" x 96" [1.219m x 2.438m]	1/2" Ø THREADED ROD, 300 SS, HILTI HIT-HY 100 EPOXY, 4.5" [114mm] EFF, 8.625" [219mm] MIN OC	A & B: 4" [102mm]			
	7.625" [194mm] OR MORE	36" x 96" [0.914m x 2.438m]	5/8" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3.25" [83mm] NOM, 8.625" [219mm] MIN OC		7.625" [194mm]		
			1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 4.25" [108mm] NOM, 8.625" [219mm] MIN OC				
STEEL	SEE SMALL MOUNTING ANGLE ANCHOR TABLE FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).						
1) OTHER SUBSTRATES	, ANCHOR TYPES, DIAN	IETERS, ALLOYS, EMBEI	DMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E. /	ANALYSIS & STAMPING, BY	OTHERS.		
2) MAX POSSIBLE SECT	ION SIZE IS 48" x 96" [1	219m x 2.438m].					

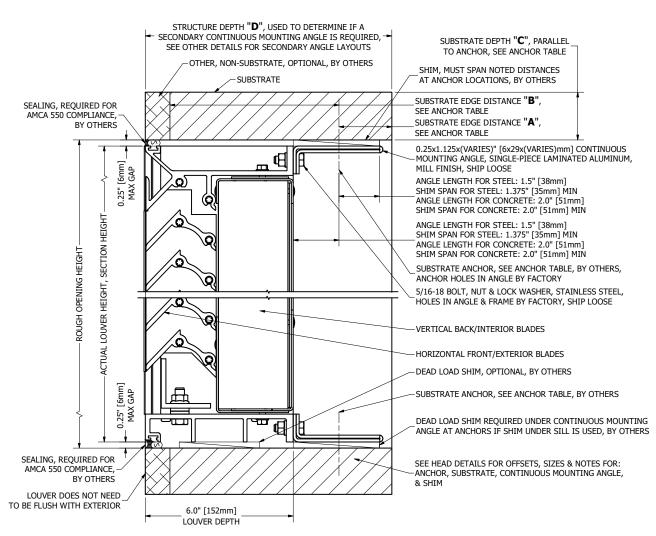


SUBSTRATE	SED, JAMB MOUN	T WITH SMALL 6"	[152mm] SECONDARY MOUNTING ANG	" A" & " B " SUBSTRATE	NFORMATION "C" SUBSTRATE MIN DEPTH PARALLEL			
(1)	(2)	(3)	(1)	MIN EDGE DISTANCES	TO ANCHOR			
CRACKED CONCRETE NORMAL WEIGHT,	5" [127mm] OR MORE AND LESS THAN	48" x 96"	1/2" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3" [76mm] NOM, 8.625" [219mm] MIN OC	A: 2.75" [70mm] B: 3.25" [83mm]	5" [127mm]			
F'c 3 KSI [20.7 MPA], ANCHOR DIAMETERS ARE FIXED			1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 4.25" [108mm] NOM, 8.625" [219mm] MIN OC	A: 2.75" [70mm] B: 3.875" [98mm]	6.75" [171mm]			
GROUT FILLED CMU	SEE LARGE MOUNTING ANGLE ANCHOR TABLE FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).							
STEEL A36	5" [127mm] OR MORE	48" x 96" [1.219m x 2.438m]	1/2-13 BOLT & NUT, 300 SS, 12" [305mm] MAX OC	A & B: 1" [25mm]	0.188" [5mm]			
	AND LESS THAN 9" [229mm]		1/2-13 BOLT & TAPPED HOLE, 300 SS, 12" [305mm] MAX OC		0.25" [6mm]			
1) OTHER SUBSTRATES,	1) OTHER SUBSTRATES, ANCHOR TYPES, DIAMETERS, ALLOYS, EMBEDMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.							
2) FOR STRUCTURE DEPTHS MORE THAN SHOWN, SEE ANCHOR TABLE FOR WITHOUT THE SECONDARY MOUNTING ANGLE.								
3) MAX POSSIBLE SECT	ION SIZE IS 48" x 96" [1	.219m x 2.438m].						
MAXIMUM 3" [76mm]	END OFFSET, WHICH N	IEANS FOR VERY SHOR	IERWISE INDICATED. FOR CONCRETE/CMU, CONTI T MOUNTING ANGLE LENGTHS, THE MINIMUM O NIMUM A 5.5" ON CENTER SPACING (FROM 11.5"	N CENTER IS REDUCED FROM				



DETAIL E

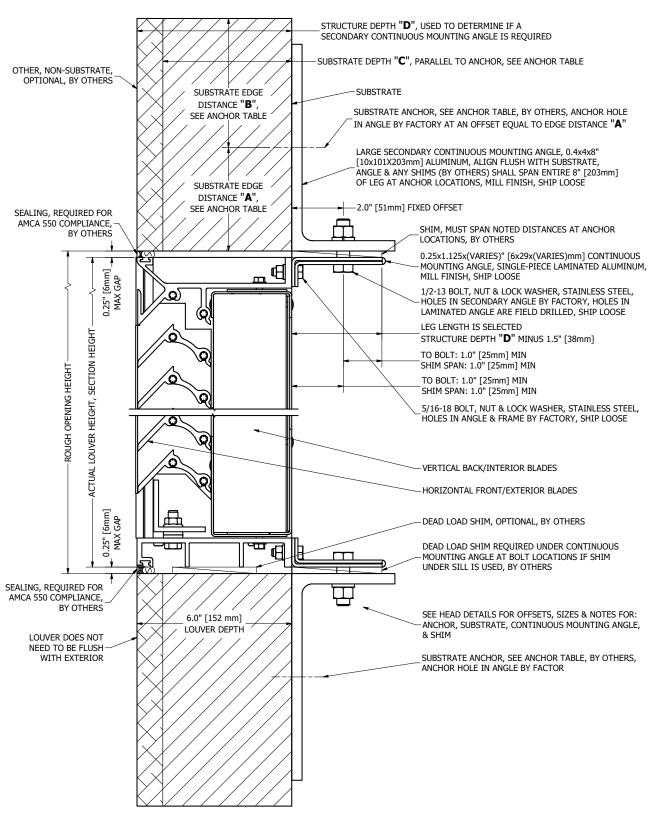
HEAD & SILL MOUNT, WITHOUT SECONDARY ANGLE



FLUSH/RE	CESSED, HEAD & S	SILL MOUNT, WITH	OUT SECONDARY MOUNTING ANGLE, A	NCHOR TABLE & INFO	RMATION	
SUBSTRATE (1)	"D" OVERALL STRUCTURE DEPTH (2)	MAX SECTION SIZE PER ANCHOR TYPE (3)	ANCHOR DETAILS (1)	"A" & "B" SUBSTRATE MIN EDGE DISTANCES, PICK ONE FOR "A" THEN "B" IS THE OTHER	"C" SUBSTRATE MIN DEPTH PARALLEL TO ANCHOR	
CRACKED CONCRETE NORMAL WEIGHT, F'c 3 KSI [20.7 MPA], ANCHOR DIAMETERS	13" [330mm] OR MORE	48" x 96" [1.219m x 2.438m]	5/8" Ø HILTI KB-TZ2 WEDGE, 300 SS, 4.5" [114mm] NOM, 8" [203mm] MIN OC	4.125" [105mm] & 6" [152mm]	6" [152mm]	
		48" x 72" [1.219m x 1.829m]	1/2" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3.75" [95mm] NOM, 8" [203mm] MIN OC	3.625" [92mm] & 6" [152mm]	5.5" [140mm]	
ARE FIXED		48" x 57" [1.219m x 1.448m]	1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 4.25" [108mm] NOM, 8" [203mm] MIN OC	4.125" [105mm] & 4.125" [105mm]	6.75" [171mm]	
GROUT FILLED CMU	SEE LARGE SECONDARY MOUNTING ANGLE ANCHOR TABLES FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).					
STEEL A36	9" [229mm] OR MORE	48" x 96" [1.219m x 2.438m]	1/2-13 BOLT & NUT, 300 SS, 11" [305mm] MAX OC	1" [25mm] & 1" [25mm]	0.188" [5mm]	
			1/2-13 BOLT & TAPPED HOLE, 300 SS, 11" [305mm] MAX OC		0.375" [10mm]	
1) OTHER SUBSTRATES,	ANCHOR TYPES, DIAN	1ETERS, ALLOYS, EMBEL	DMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E.	ANALYSIS & STAMPING, BY (OTHERS.	
2) DEPTHS LESS THAN S	SHOWN REQUIRE THE	LARGE OR SMALL SECO	NDARY ANGLE MOUNTING CONFIGURATION.			
3) MAX POSSIBLE SECT	ION SIZE IS 48" x 96" [1	.219m x 2.438m].				
MAXIMUM 3" [76mm]	END OFFSET, WHICH N	IEANS FOR VERY SHOR	ERWISE INDICATED. FOR CONCRETE/CMU, CONT T MOUNTING ANGLE LENGTHS, THE MINIMUM O NIMUM A 5.5" ON CENTER SPACING (FROM 11.5'	N CENTER IS REDUCED FROM		

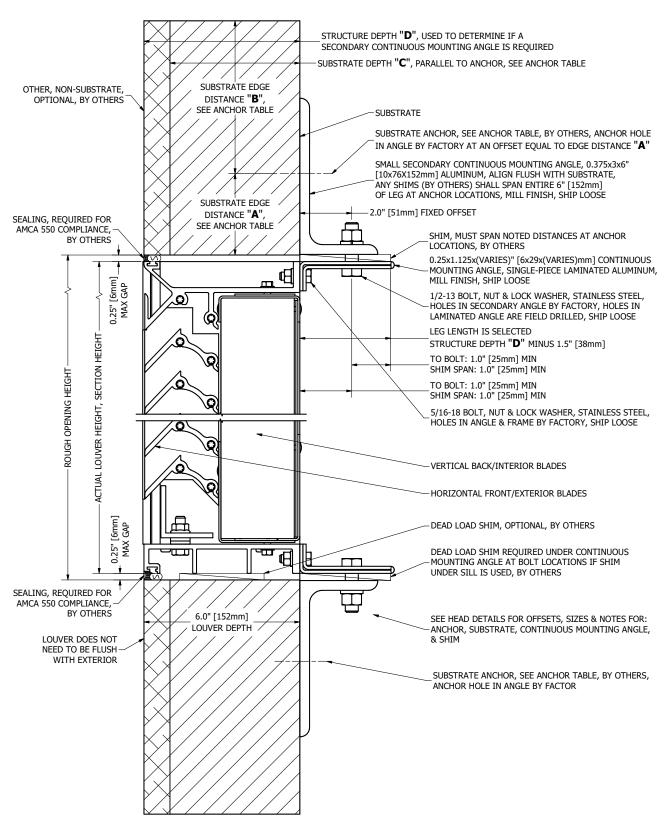
DETAIL F

HEAD & SILL MOUNT, WITH "LARGE" 0.4 X 4 X 8 SECONDARY ANGLE



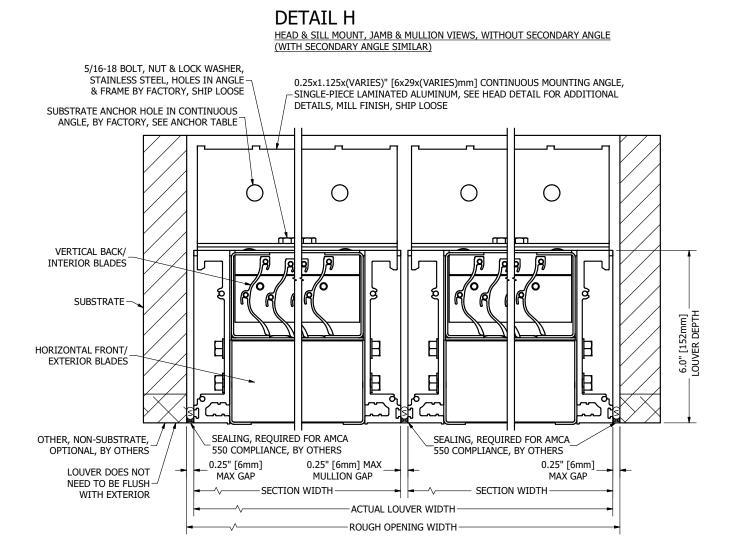
DETAIL G

HEAD & SILL MOUNT, WITH "SMALL" 0.375 X 3 X 6 SECONDARY ANGLE



FLUSH/RECESSED, HEAD & SILL MOUNT WITH LARGE 8" [203mm] SECONDARY MOUNTING ANGLE, ANCHOR TABLE & INFORMATION							
SUBSTRATE (1)	"D" OVERALL STRUCTURE DEPTH (2)	MAX SECTION SIZE PER ANCHOR TYPE (3)	ANCHOR DETAILS (1)	"A" & "B" SUBSTRATE MIN EDGE DISTANCES	"C" SUBSTRATE MIN DEPTH PARALLEL TO ANCHOR		
CRACKED CONCRETE	5" [127mm] OR MORE AND LESS THAN 13" [330mm]	48" x 84" [1.219m x 2.134m]	1/2" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3" [76mm] NOM, 8" [203mm] MIN OC	A: 3.125" [79mm] B: 4.875" [124mm]	5" [127mm]		
CRACKED CONCRETE		48" x 65" [1.219m x 1.651m]	1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 3" [76mm] NOM, 8" [203mm] MIN OC		4.75" [121mm]		
GROUT FILLED CMU	7.625" [194mm] OR MORE	48" x 78" [1.219m x 1.981m]	5/8" Ø THREADED ROD, 300 SS, HILTI HIT-HY 100 EPOXY, 5.625" [143mm] EFF, 10" [254mm] MIN OC	A & B: 4" [102mm]	7.625" [194mm]		
8" [203mm] NOM, ASTM C90, TYPE N, F'm 2 KSI [13.8 MPA], ANCHOR DIAMETERS		48" x 54" [1.219m x 1.372m]	5/8" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3.25" [83mm] NOM, 10" [254mm] MIN OC				
ARE FIXED		48" x 47" [1.219m x 1.194m]	1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 4.25" [108mm] NOM, 10" [254mm] MIN OC				
STEEL	SEE SMALL MOUNTING ANGLE ANCHOR TABLE FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).						
1) OTHER SUBSTRATES, ANCHOR TYPES, DIAMETERS, ALLOYS, EMBEDMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.							
2) FOR CRACKED CONCRETE STRUCTURE DEPTHS MORE THAN SHOWN, SEE ANCHOR TABLE FOR WITHOUT THE SECONDARY MOUNTING ANGLE.							
3) LARGER SECTION SIZES OF UP TO 48" x 96" [1.219m x 2.438m] ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.							
DIMENSIONS & MATERIAL STRENGTHS ARE MINIMUMS UNLESS OTHERWISE INDICATED. FOR CONCRETE/CMU, CONTINUOUS MOUNTING ANGLES HAVE A MAXIMUM 3" [76mm] END OFFSET, WHICH MEANS FOR VERY SHORT MOUNTING ANGLE LENGTHS, THE MINIMUM ON CENTER IS REDUCED FROM THAT SHOWN ABOVE. FOR EXAMPLE, AN 11.5" SECTION WILL HAVE AT MINIMUM A 5.5" ON CENTER SPACING (FROM 11.5"-3"-3").							

FLUSH/RECESSED, HEAD & SILL MOUNT WITH SMALL 6" [152mm] SECONDARY MOUNTING ANGLE, ANCHOR TABLE & INFORMATION								
SUBSTRATE (1)	"D" OVERALL STRUCTURE DEPTH (2)	MAX SECTION SIZE PER ANCHOR TYPE (3)	ANCHOR DETAILS (1)	"A" & "B" SUBSTRATE MIN EDGE DISTANCES	"C" SUBSTRATE MIN DEPTH PARALLEL TO ANCHOR			
CRACKED CONCRETE NORMAL WEIGHT,	MAL WEIGHT, SI [20.7 MPA], DR DIAMETERS SI [279mm]	48" x 63" [1.219m x 1.600m]	1/2" Ø HILTI KB-TZ2 WEDGE, 300 SS, 3" [76mm] NOM, 10" [254mm] MIN OC	A: 3.125" [79mm] B: 2.875" [73mm]	5" [127mm]			
F'c 3 KSI [20.7 MPA], ANCHOR DIAMETERS ARE FIXED		48" x 64" [1.219m x 1.626m]	1/2" Ø HILTI HUS-EZ (KH-EZ) SCREW, 300 SS, 4.25" [108mm] NOM, 10" [254mm] MIN OC		6.75" [171mm]			
GROUT FILLED CMU	SEE LARGE MOUNTING ANGLE ANCHOR TABLE FOR OPTIONS, OR USE P.E. ANALYSIS (BY OTHERS).							
STEEL	5" [127mm] OR MORE AND LESS THAN 9" [229mm]	MORE 48" x 96" ESS THAN [1.219m x 2.438m]	1/2-13 BOLT & NUT, 300 SS, 10" [254mm] MAX OC	A: 2.125" [54mm] B: 3.875" [98mm]	0.188" [5mm]			
A36			1/2-13 BOLT & TAPPED HOLE, 300 SS, 10" [254mm] MAX OC		0.25" [6mm]			
1) OTHER SUBSTRATES,	1) OTHER SUBSTRATES, ANCHOR TYPES, DIAMETERS, ALLOYS, EMBEDMENTS, ETC, ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.							
2) FOR STRUCTURE DEPTHS MORE THAN SHOWN, SEE ANCHOR TABLE FOR WITHOUT THE SECONDARY MOUNTING ANGLE.								
3) LARGER SECTION SIZES OF UP TO 48" x 96" [1.219m x 2.438m] ARE ALLOWED PER ICC-500 BY P.E. ANALYSIS & STAMPING, BY OTHERS.								
DIMENSIONS & MATERIAL STRENGTHS ARE MINIMUMS UNLESS OTHERWISE INDICATED. FOR CONCRETE/CMU, CONTINUOUS MOUNTING ANGLES HAVE A MAXIMUM 3" [76mm] END OFFSET, WHICH MEANS FOR VERY SHORT MOUNTING ANGLE LENGTHS, THE MINIMUM ON CENTER IS REDUCED FROM THAT SHOWN ABOVE. FOR EXAMPLE, AN 11.5" SECTION WILL HAVE AT MINIMUM A 5.5" ON CENTER SPACING (FROM 11.5"-3"-3").								





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