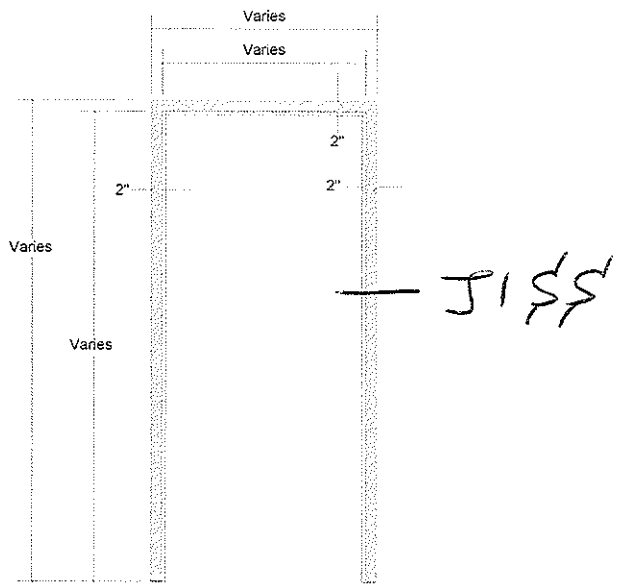
					Door		FRAMES													
Quantity	Single/Pr	Opening #	Outside	Inside	Type	Finish	Type	Mfgr	Ga/Thickness	Door Thickness	Rating	Jamb Debth	Nominal Door Opening	Hand	Elevation	Net Wall Th	Finish	Degree Opng	HW Set	Notes
1	SGL	2316	CORR 2315	DECONTAM	E	WD	HMF	DOO	16 GA	1-3/4"	60PPS	6-3/8"	3'6"X8'0"	RH	AS4	5-1/4"	PT	90	13	Welded Hollow Mtl Frame
1	SGL	2316A	DECONTAM	EVS	A	WD	HMF	DOO	16 GA	1-3/4"	60PPS	6-3/8"	3'0"X8'0"	LHR	AS4	5-1/4"	PT	90	9	Welded Hollow Mtl Frame
1	SGL	2316C	DECON SCOPE	SCOPE PROC	E	WD	HMF	DOO	16 GA	1-3/4"	NON-RTD	6-3/8"	3'0"X8'0"	RHR	AS4	5-1/4"	PT	90	46	Welded Hollow Mtl Frame
1	SGL	2317	BREAKDOWN	PROCESSING	A	WD	AA	WIM	300	1-3/4"	NON-RTD	6-3/8"	3'6"X8'0"	LH	CS4	5-1/4"	AA	90	48	Aluminum Frame
1	SGL	2317E	PROCESSING	SCOPE PROC	BB	WD	HMF	DOO	16 GA	1-3/4"	NON-RTD	6-3/8"	3'0"X8'0"	N	AS4	5-1/4"	PT	360	15	Welded Hollow Mtl Frame
1	SGL	2317F	BREAKDOWN	PROC STERIL	A	WD	AA	WIM	300	1-3/4"	NON-RTD	6-3/8"	3'0"X8'0"	LH	CS4	5-1/4"	AA	90	48	Aluminum Frame
1	PR	2317FA	PROCESSING	CLOSET	AA	WD	HMF	DOO	16 GA	1-3/4"	NON-RTD	6-3/8"	3'0"X8'0"	RHRA	BS4	5-1/4"	PT	90	2	Welded Hollow Mtl Frame
1	SGL	2317FB	PROCESSING	CLOSET	A	WD	HMF	DOO	16 GA	1-3/4"	NON-RTD	6-3/8"	1'3"X8'0"	RHRA	AS4	5-1/4"	PT	90	2	Welded Hollow Mtl Frame

FINISH SCHEDULE
WD - Wood
AA - Anodized Aluminum
PT - Paint

OPENINGS 2316, 2316A, 2316C, 2317E, 2317FB

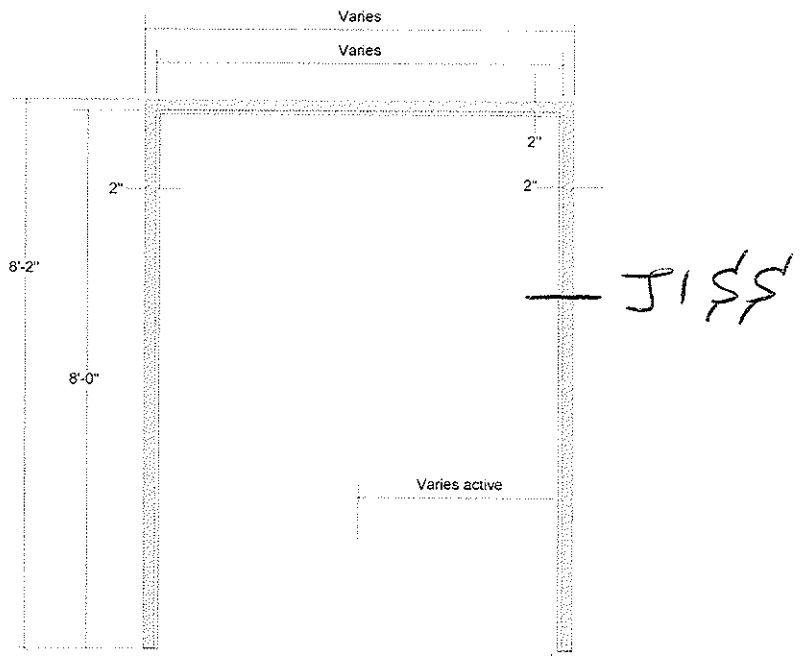
WELDED HMF



TYPICAL SINGLE FRAME ELEVATION

YOUR FIRM NAME HERE , PH. - FAX -	PROJECT NAME HEALTH CENTER	PROJECT NUMBER 1737	DRAWING NAME
		SCALE Elev - 3/8in. = 1ft. Details - 0.3125 in. = 1 in. FILE NAME F_1737_A VSD	AS4

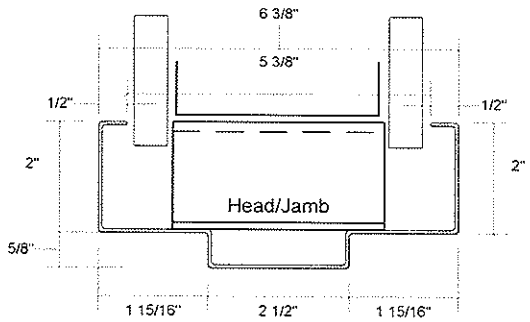
OPENING 2317FA
WELDED HMF



YOUR FIRM NAME HERE , PH. - FAX -	PROJECT NAME HEALTH CENTER	PROJECT NUMBER 1737 SCALE Elev - 3/8in. = 1ft. Details - 0.3125 in. = 1 in. FILE NAME F_1737_BS4.VSD	DRAWING NAME **BS4**

SpecWorks®

JAMB/HEAD DETAIL
Openings 2316, 2316A, 2316C, 2317E, 2317FA, 2317FB

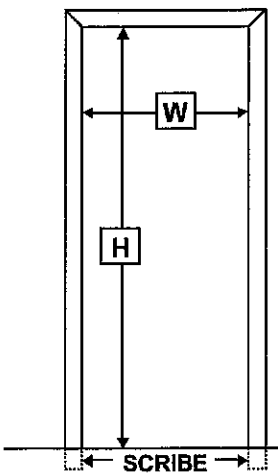


YOUR FIRM NAME HERE . PH. - FAX -	PROJECT NAME HEALTH CENTER	PROJECT NUMBER 1737 SCALE Elev - 3/8in. = 1ft. Details - 0.3125 in. = 1 in. FILE NAME F_1737_J1SS VSD	DRAWING NAME J1SS

Western Integrated Materials, Inc.
3310 E. 59th St. ● Long Beach, CA 90805 Phone: (562) 634-2823 ● Fax: (562) 634-8449

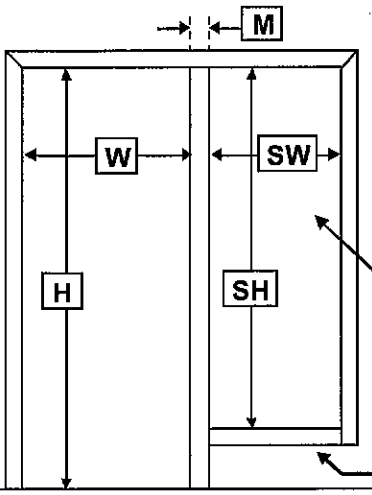
Rough Opening Information

DOOR FRAME



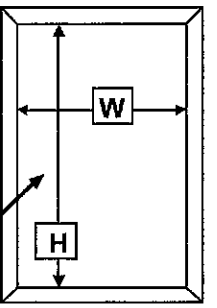
Rough Opening Width =
W + 1 1/2"
Rough Opening Height =
H + 3/4"

DOOR FRAME / SIDELIGHT



Rough Opening Width =
W + M + SW + 1 1/2"
Rough Opening Height @ Door=
H + 3/4"
Rough Opening Height @ Side Lite =
SH + 1 1/2"

BORROWED LIGHT

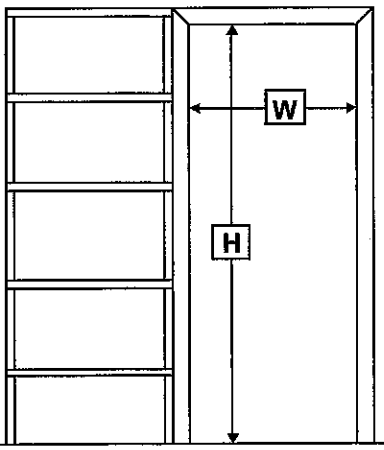


Glass size is:
SW + 1/2" x SH + 1/2"
W + 1/2" x H + 1/2"

Blocking by others

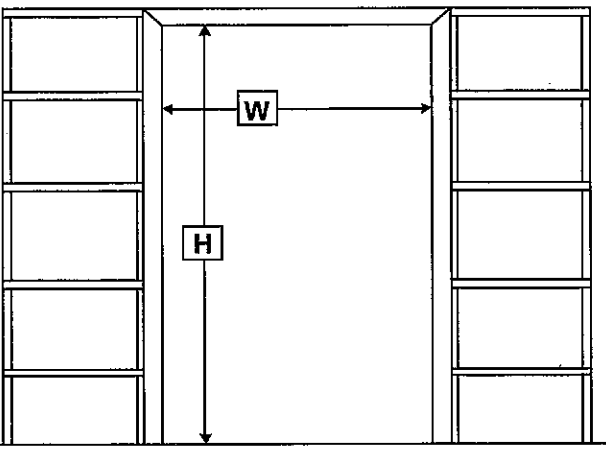
Rough Opening Width =
W + 1 1/2"
Rough Opening Height =
H + 1 1/2"

SINGLE DOOR POCKET FRAME



Rough Opening Width =
W + W + 1 3/4"
Rough Opening Height =
H + 1 3/4"

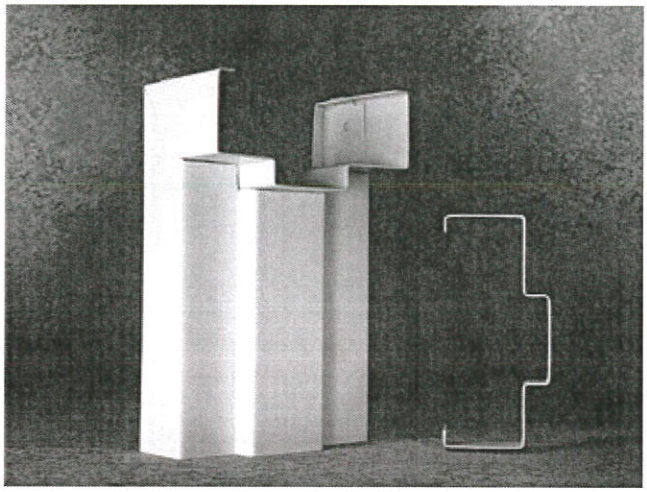
DOUBLE DOOR POCKET FRAME



Rough Opening Width =
W + W + 2 1/2"
Rough Opening Height =
H + 1 3/4"

DRAWING NAME

CS4



ABOUT THE PRODUCT:

F Series 3 Sided Flush Frames are designed to meet requirements for light to maximum duty applications in both commercial and institutional buildings. They are installed in both interior and exterior locations, and in virtually all types of buildings and wall constructions. These frames are to be installed as part of the wall framing sequence. They can be specified and supplied as KD (knock-down) for field assembly prior to installation or welded for installation as a complete unit.

INSTALLATION:

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2001 (formerly SDI 105) *Recommended Erection Instructions for Steel Frames and HMMA 840.*

2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The *Authority Having Jurisdiction* is the final authority in issues related to the installation and use of installed Fire Rated Doors.

FEATURES AND BENEFITS:

Steelcraft F Series Flush Frames offer the following unique features, which enhance long term functionality and durability:

1. **Die-mitered corner connections** Die-mitered corner connection at the head and jamb insure an attractive, tight and closed mitered connection. The miter includes 4 corner tabs designed with concealed connection eliminating the need for continuous profile welding.
2. **Patented universal hinge preparations** allow for easy field conversion from standard weight .134" (3.3mm) thick hinges to heavy weight .180" (4.7mm) hinges.
3. **Adjustable base anchors** allow for installation adjustment when the floor is not level.
4. **Factory prepared** for field installed silencers.
5. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10-1998 (R2004).

SPECIFICATION COMPLIANCE:

1. Overall frame construction for the Steelcraft F-Series Flush Frames meets the requirements of ANSI A250.8-2003 (commonly referred to as SDI-100).

2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/DHI A115 .

FIRE RATINGS:

The F-Series Flush Frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL 10B) and positive pressure standards (UL 10C). Refer to the **Fire Rated Section** of this manual for particular listings.

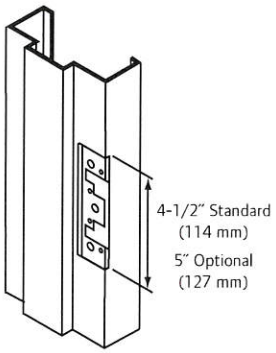
APPLICATIONS:

F-Series Frames are typically installed in wall construction types as defined in the chart below:

FRAME APPLICATIONS

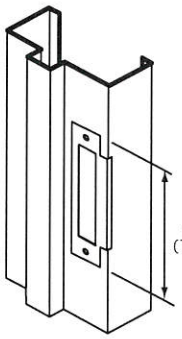
Profile	Steel Thickness	Wall Construction	Typical Wall Anchors
F16	16 Gage [0.053" (1.3mm)]	Wood or Steel Stud	Lock-in Stud Anchor
		Masonry	Wire Masonry
		Existing Masonry	Bolted Through Soffit
F14	14 Gage [0.067" (1.7mm)]	Wood or Steel Stud	Lock-in Stud Anchor
		Masonry	Wire Masonry
		Existing Masonry	Bolted Through Soffit
F12	12 Gage [0.093" (2.3mm)]	Wood or Steel Stud	Welded Stud Anchors
		Masonry	Wire Masonry
		Existing Masonry	Bolted Through Soffit

Universal Mortise Hinge Prep

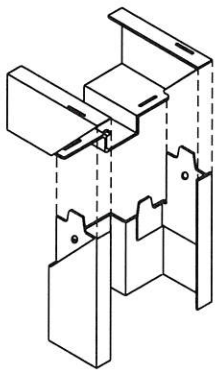


7 Gage Hinge Reinforcement

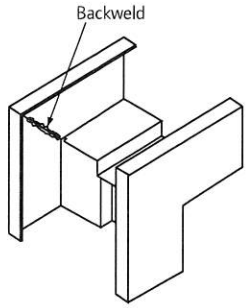
4⅞" Strike Prep (ASA)



KD Corner Detail



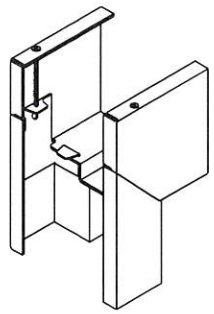
Welded Corner



GENERAL NOTES:

1. Variations in jamb depths available in 1/8" (3mm) increments.
2. All F Series frames are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
3. F Series Frames are to be installed as part of the wall framing sequence.
4. Depending on environmental and usage conditions the steel can be either cold rolled or galvannealed. Galvannealed steel is recommended for all exterior applications.

Optional 4" (102mm) Face Head Detail

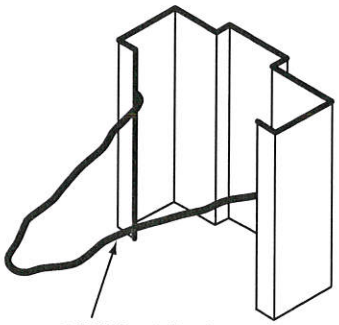


FRAME OPTIONS

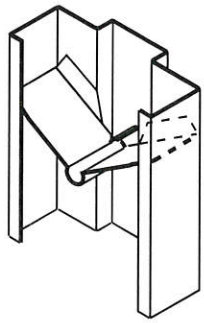
SERIES	FRAME PROFILE		CORNER CONNECTIONS				4" (102mm) HEADS
			KD (Knock-Down)		SUA (Set-Up & Weld)		
	SINGLE RABBET	DOUBLE RABBET	SINGLE RABBET	DOUBLE RABBET	SINGLE RABBET	DOUBLE RABBET	
F16	Typically for walls less than 3-3/4" (95mm) thick. Minimum walls thickness 2" (51mm)	Typically for walls 3-3/4" (95mm) thickness or greater	3 interlocking corner tabs per factory die-miter. See the "KD Corner Detail	4 interlocking corner tabs per factory die-miter. See the "KD Corner Detail	Available when specified, and in accordance with ANSI A250.8-2003 (SDI 100).		Die-mitered for use with 2" (51mm) face double rabbet jambs. Available when specified for KD or SUA applications.
F14							
F12	N/A		N/A	N/A	Standard Saw Cut and welded, and in accordance with ANSI A250.8-2003 (SDI 100)		For use with 2" (51mm) face double rabbet jambs.

N/A = Not Available

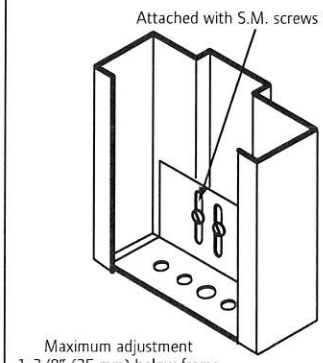
Wire Masonry Anchor



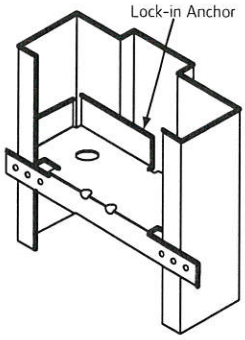
Existing Wall Anchor



Adjustable Base Anchor



Anchor for Wood Stud Partition



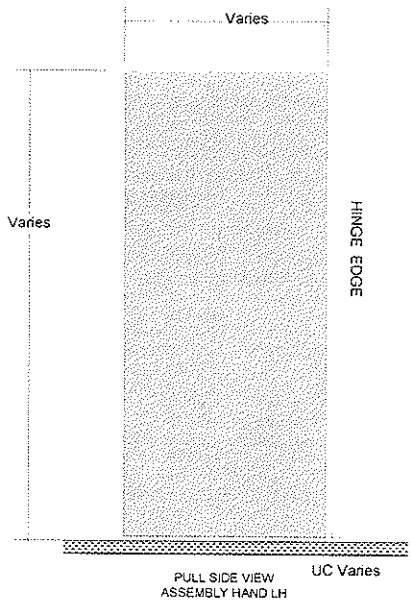
Anchoring and Installation Notes:

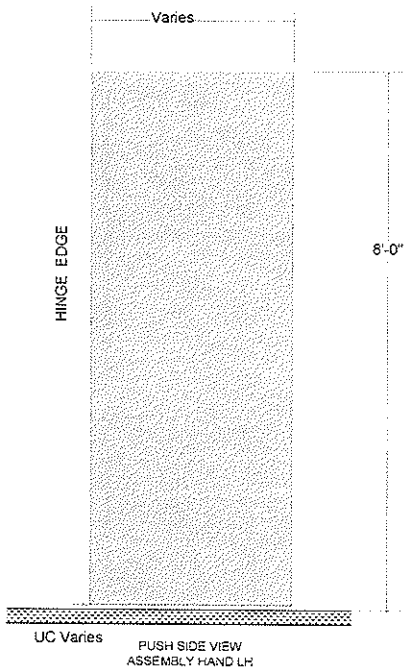
1. **F16 and F14-Series Commercial and Institutional Frames** are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
2. **For anchoring applications, refer to section 2.4 of this manual.**
3. **Installation Caution Notice – Grouted Frames:**
   - When temperature conditions necessitate an additive to be used in the mortar to prevent freezing, the contractor installing the frames must coat the inside of frames in the field with a corrosion resistant coating per SDI 105.
   - When frames are to be grouted full, silencers must be field installed prior to grouting.
   - Steel frames, including fire rated frames, do not require grouting. Grouting is not recommended for frames in drywall.
4. All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the *Authority Having Jurisdiction*.

FRAMING APPLICATIONS

SERIES	Steel Type	Building Type	Opening	Usage Frequency[1]	KD[4] Corner	SUA[5] Corner	Applications
F16	Non-Galvannealed[2]	Institutional and Commercial	Interior	Heavy to Extra Heavy Duty	✓	✓	Typical Building Conditions
	Galvannealed[3]		Mainly Exterior				High Humidity and/or Weather Exposure
F14	Non-Galvannealed[2]	Institutional and Commercial	Interior	Extra Heavy to Maximum Duty	✓	✓	Typical Building Conditions
	Galvannealed[3]		Mainly Exterior				High Humidity and/or Weather Exposure
F12	Galvannealed	Institutional and Commercial	Interior and Exterior	Maximum Duty	N/A	✓	Maximum Traffic Building Conditions
							High Humidity and/or Weather Exposure

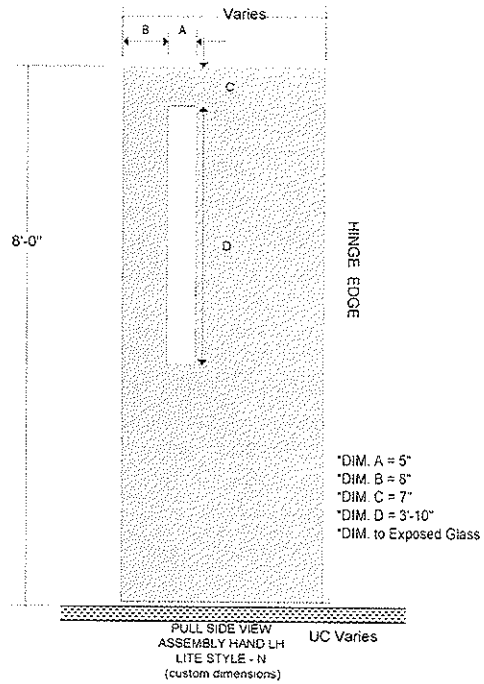
[1] Usage frequency is based on ANSI A250.8-2003
[2] Commercial quality cold rolled steel
[3] Reinforcements for galvannealed frames are also galvannealed
[4] Knock-Down for field assembly prior to installation
[5] Set-up and Welded for installation as a pre-welded unit





DESIGN HARDWARE COMPANY
6053 WEST THIRD STREET
LOS ANGELES, CA 90036
PH. 323-930-1330
FAX 323-930-0459

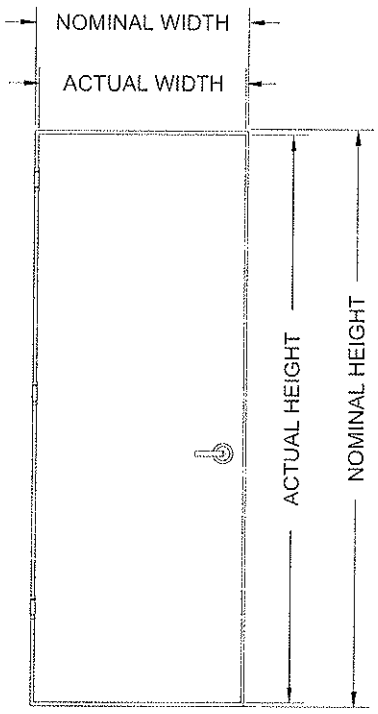
PROJECT NAME HEALTH CENTER	PROJECT NUMBER 1737	DRAWING NAME
	SCALE Elev - 3/8in. = 1ft. Details - 0.3125 in. = 1 in.	DF
	FILE NAME D_1737_DF.VSD	

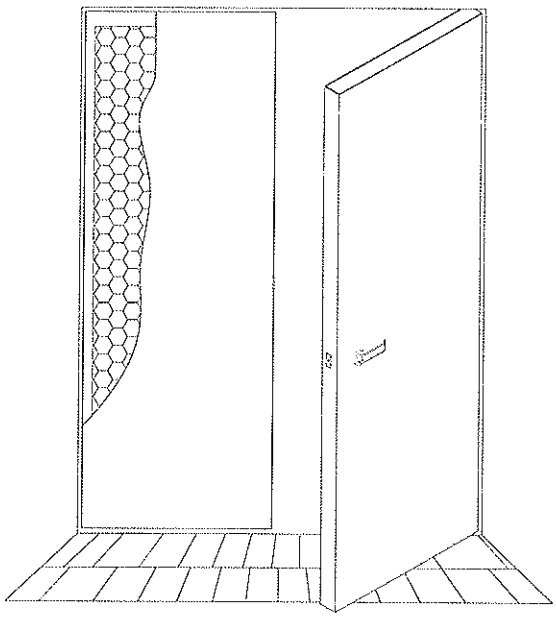


DESIGN HARDWARE COMPANY 6053 WEST THIRD STREET LOS ANGELES, CA 90036 PH. 323-930-1330 FAX 323-930-0459	PROJECT NAME HEALTH CENTER	PROJECT NUMBER 1737	DRAWING NAME
		SCALE Elev - 3/8in. = 1ft. Details - 0.3125 in. = 1 in. FILE NAME D_1737_DN.VSD	**DN**

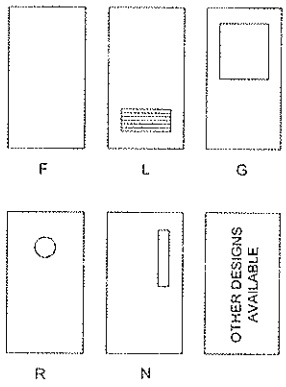
HONEYCOMB CORE DOOR

STANDARD SPECIFICATION
MATERIAL: GALVANNEAL
GAUGE: 18

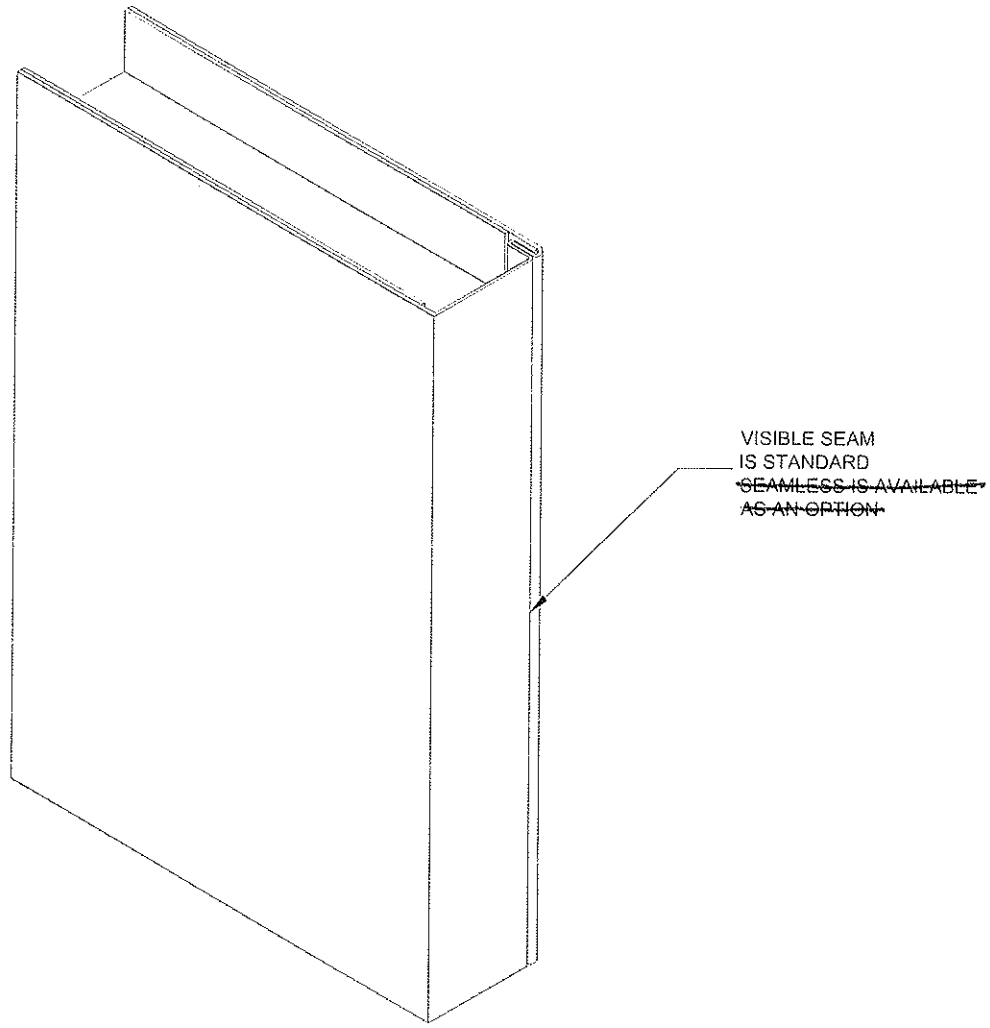




1.) 1-3/4" STANDARD DOOR THICKNESS, OTHER THICKNESSES AVAILABLE.
2.) 16, 14 AND 12 GAUGE AVAILABLE.
3.) G90 GALVANIZED AVAILABLE. STAINLESS STEELS 304 AND 316 AVAILABLE IN #4-SATIN, #2B-MILL OR #8-MIRROR FINISHES.
4.) 1" HONEYCOMB HEX CELLS PERMANENTLY BONDED TO BOTH FACE SHEETS. IMPACT RESISTANT (HONEYCOMB IS CRUSH RESISTANT TO 45 PSI).
5.) RESIN IMPREGNATED HONEYCOMB OPTIONAL
6.) 18 GA TOP AND BOTTOM CHANNELS SPOTWELDED TO FACE SHEETS.
7.) CONTINOUS WELD SEAMLESS EDGE (STANDARD FOR MILD STEEL - OPEN SEAM AVAILABLE).
OPEN SEAM EDGE (STANDARD FOR STAINLESS STEEL - SEAMLESS AVAILABLE).
8.) HARDWARE REINFORCEMENTS:
3/16" FOR HINGES
12 GA FOR LOCKS
14 GA FOR CLOSER
9.) WHI LABELS AVAILABLE

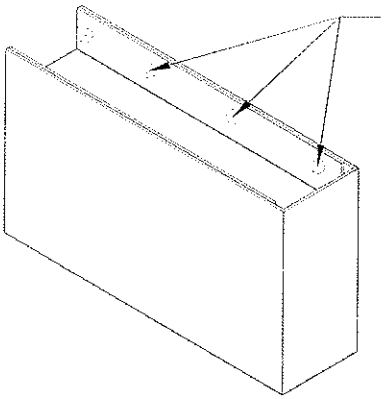


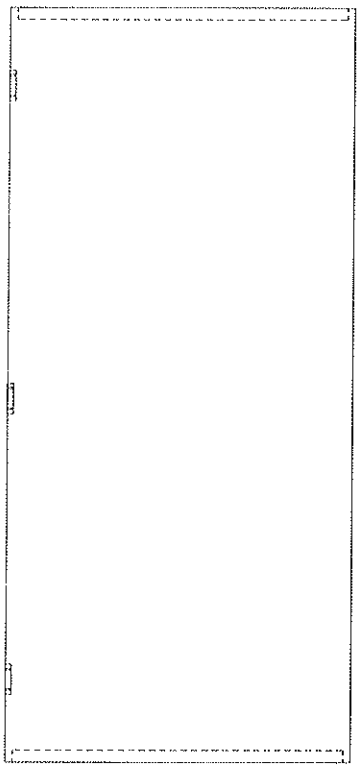
INTERLOCKING DOOR EDGE SEAM

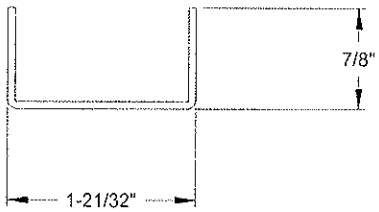


1.) BEVELED AND SQUARE EDGES ARE AVAILBLE IN ANY COMBINATION
2.) ONLY 18 AND 16 GAUGES AVAILABLE WITH THIS DOOR EDGE

STANDARD TOP AND BOTTOM CHANNEL

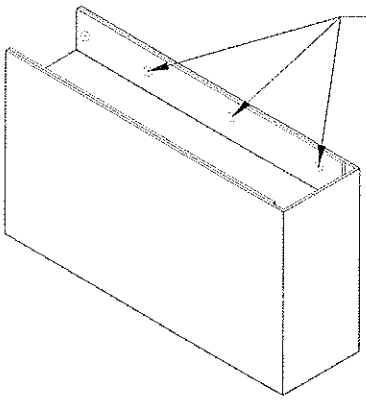




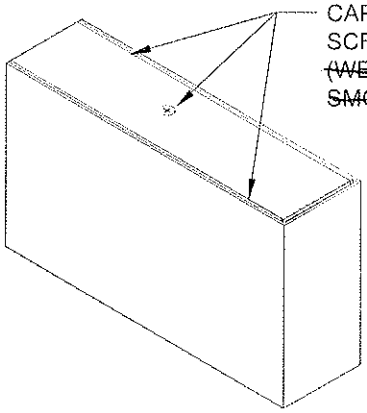


TOP AND BOTTOM CHANNELS
ARE 18 GA STANDARD
(OTHER GAUGES AVAILABLE
AS AN OPTION)

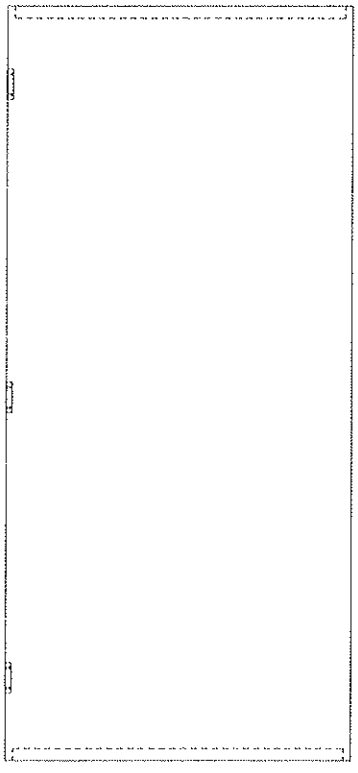
CAP TOP FLUSH

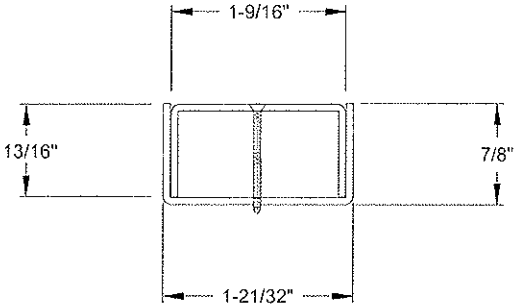


TOP AND BOTTOM CHANNELS SPOT WELDED 2" FROM ENDS 4" ON CENTER TO BOTH SKINS



CAPPING CHANNEL SCREWED-IN @ INTERIOR ~~(WELDED & FINISHED SMOOTH OPTIONAL)~~





RECESSED AND CAPPING CHANNELS ARE 18 GA STANDARD ~~(OTHER GAUGES AVAILABLE AS AN OPTION)~~

OPENING
2317
2317 F

Western Integrated Materials, Inc.

Door Frame Installation Instructions

1. Frames are fabricated to exact width specified and no clearance is built in.
2. Rough opening should be 1-1/2” wider than the desired width, 3/4” over in height.
3. Determine high side of floor and cut jambs to the required height. Be sure mute is pushed to top of jamb before cutting.
4. Check opening for proper swing, then slip header over the wall. (Fig. 1)
5. Hold jambs at an angle and slip the upper portion over the wall. Push upward to engage notch with door stop on header, then push the rest of the jamb over the wall. (Fig. 2)

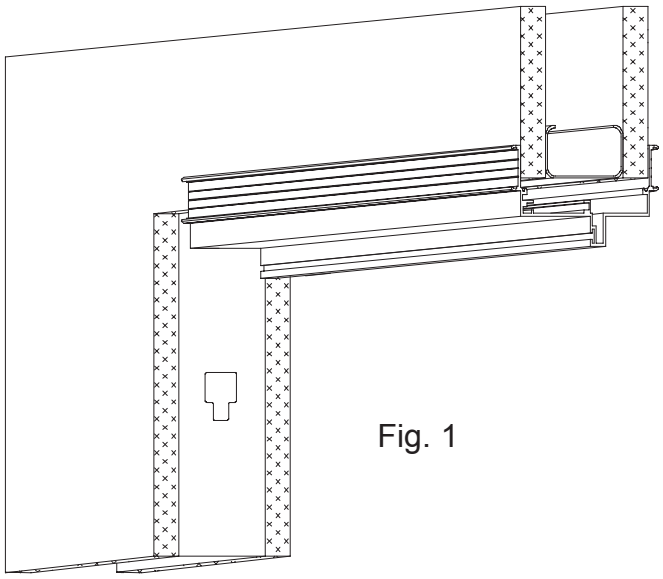


Fig. 1

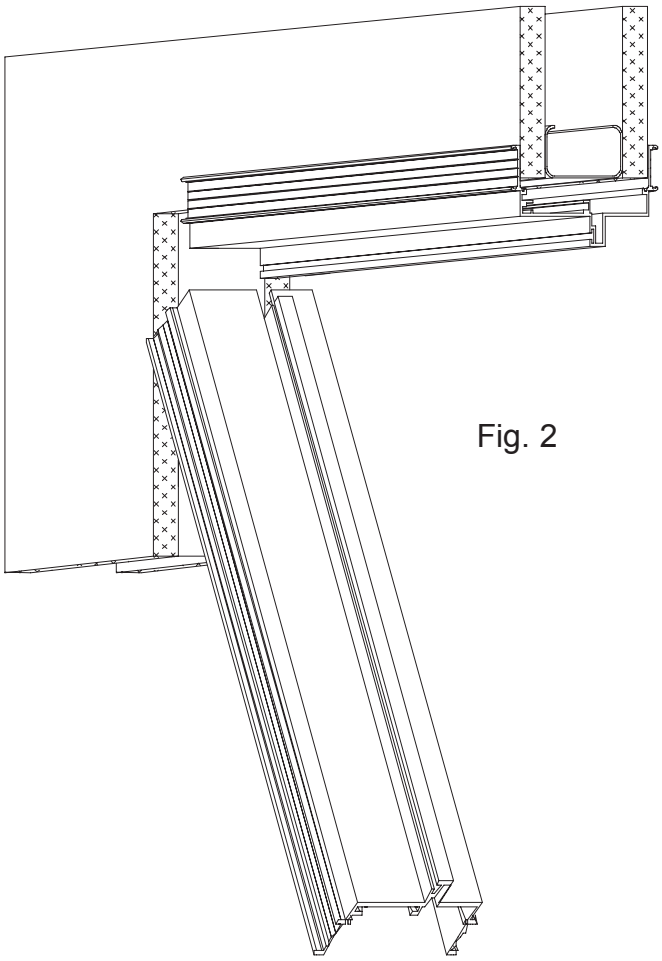


Fig. 2

6. Slide butt jamb down to finished floor. If carpet is to be laid, the base on which it is to be laid shall be considered the finished floor. For other floor coverings, (tile, etc.) the jamb should rest on removable spacers the same thickness as the flooring to be used.
7. Plumb butt side and secure to wall.

Western Integrated Materials, Inc.

3310 E. 59th Street
Long Beach, CA 90805
Phone: (562) 634-2823 Fax (562) 634-8449

Aluminum Door Frames - Aluminum Doors - Sliders - Pocket Frames - Glazing Components

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Door Frames

Western Integrated Series 300 door frames are offered in one of the most complete range of wall thickness available. All frames are compatible with each other 2-1/4" thru 7-1/4" .

When special wall conditions are involved, the 400 Series can be used to give complex flexibility from 3-0/0" thru 9-1/2" .

The 400, 401 & 402 Series is not a true expandable door frame. It is fabricated to fit a variety of wall conditions.

Western Integrated Materials, Inc.

With the 400 Series frames, we fabricate the throat of the frame to the required wall thickness. It is installed the same as the type 300 Series and has exactly the same exposed profile.

Add a Western Integrated aluminum door, glass and hardware for a complete system.

Type 300 Throat Sizes Include:

2-1/4"	3-0/0"	3-1/4"	3-3/8"
3-1/2"	3-3/4"	3-7/8"	4-1/2"
4-5/8"	4-3/4"	4-7/8"	5-0/0"
5-1/4"	5-1/2"	6-0/0"	7-1/4"

Type 400 Series:

400 Series 3-1/2" thru 6-0/0"
401 Series 6-0/0" thru 7-1/2"
402 Series 7-1/2" thru 9-1/2"

Western Integrated Materials, Inc.

8. If door is premortised, hang prefit door and close into opening.

   a.) If doors are not premortised, then use a square to attain a 90° corner between head & jambs. Head must butt up to vertical edge of clip (Fig. 3) and set flat in alignment groove (Fig. 4). You can then attach clips.

   b.) Secure head to wall.

   c.) Use same procedure for strike jamb.

9. Pull header down to door, allowing 1/8" spacing. Install corner clips (Fig. 3 & 4) and secure to wall.

10. Pull strike jamb into position and align with corner clips and door edge. Secure to wall.

11. If required, cut trim to length and, if necessary, make required notch at top of trim for clearance of clip and/or trim legs. Install trim. Trim should fit snugly. If there is any tendency to rattle, give full length a slight twist before installing.

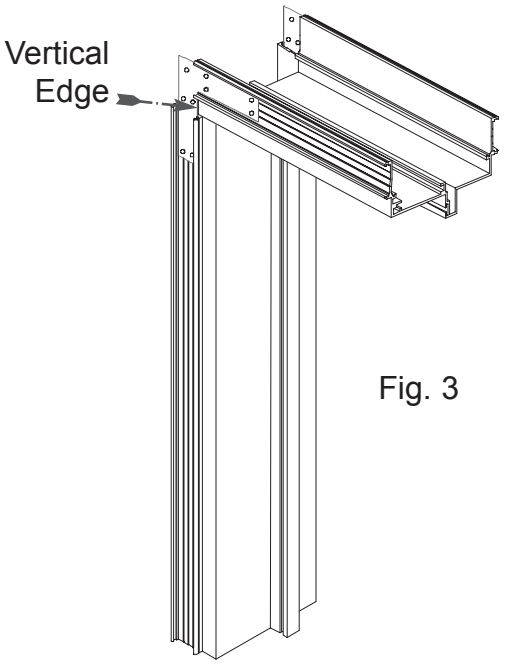


Fig. 3

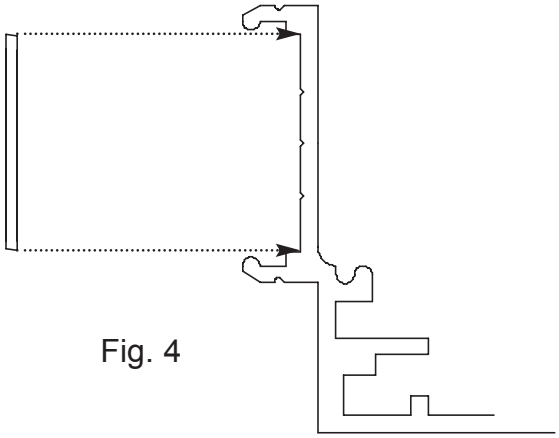


Fig. 4

S-76 Clip Alignment Groove

CLEANING: If necessary to clean the aluminum, use water with a mild detergent. No abrasive agents should be used.

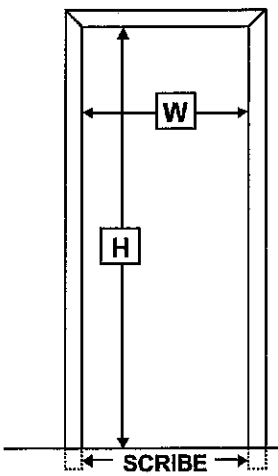
FASTENING: Corner Clips (S-76) - 4 per frame.
Use 1-1/2" #6 drywall screws (supplied by others). (4 per clip - 16 per frame)

FASTENING DOOR FRAME: Use 1-1/2" drywall screws (supplied by others). Screws should penetrate studs 1/2". Screw 2" from each end - 12" o.c. minimum.

Western Integrated Materials, Inc.
3310 E. 59th St. ● Long Beach, CA 90805 Phone: (562) 634-2823 ● Fax: (562) 634-8449

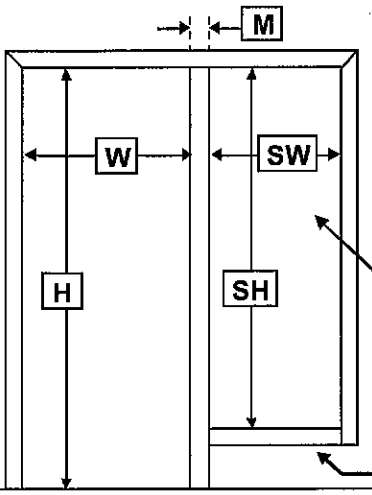
Rough Opening Information

DOOR FRAME



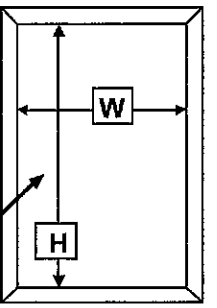
Rough Opening Width =
W + 1 1/2"
Rough Opening Height =
H + 3/4"

DOOR FRAME / SIDELIGHT



Rough Opening Width =
W + M + SW + 1 1/2"
Rough Opening Height @ Door=
H + 3/4"
Rough Opening Height @ Side Lite =
SH + 1 1/2"

BORROWED LIGHT

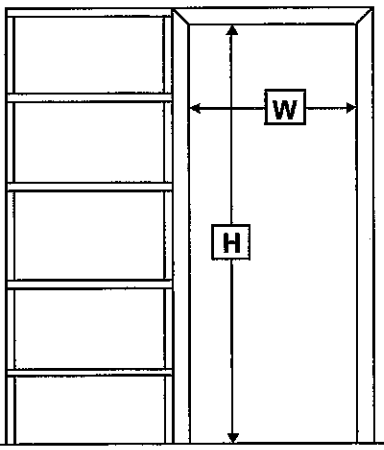


Glass size is:
SW + 1/2" x SH + 1/2"
W + 1/2" x H + 1/2"

Blocking by others

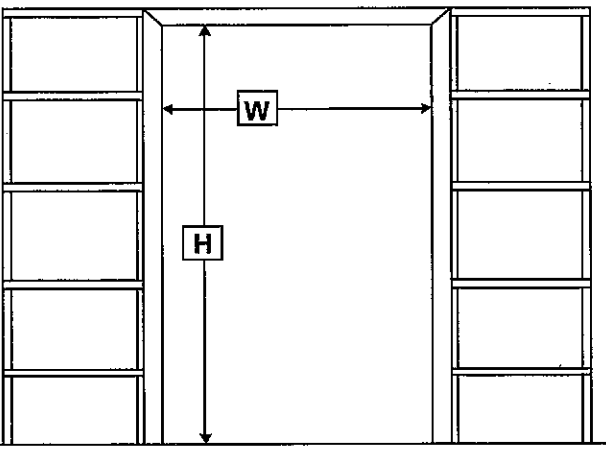
Rough Opening Width =
W + 1 1/2"
Rough Opening Height =
H + 1 1/2"

SINGLE DOOR POCKET FRAME



Rough Opening Width =
W + W + 1 3/4"
Rough Opening Height =
H + 1 3/4"

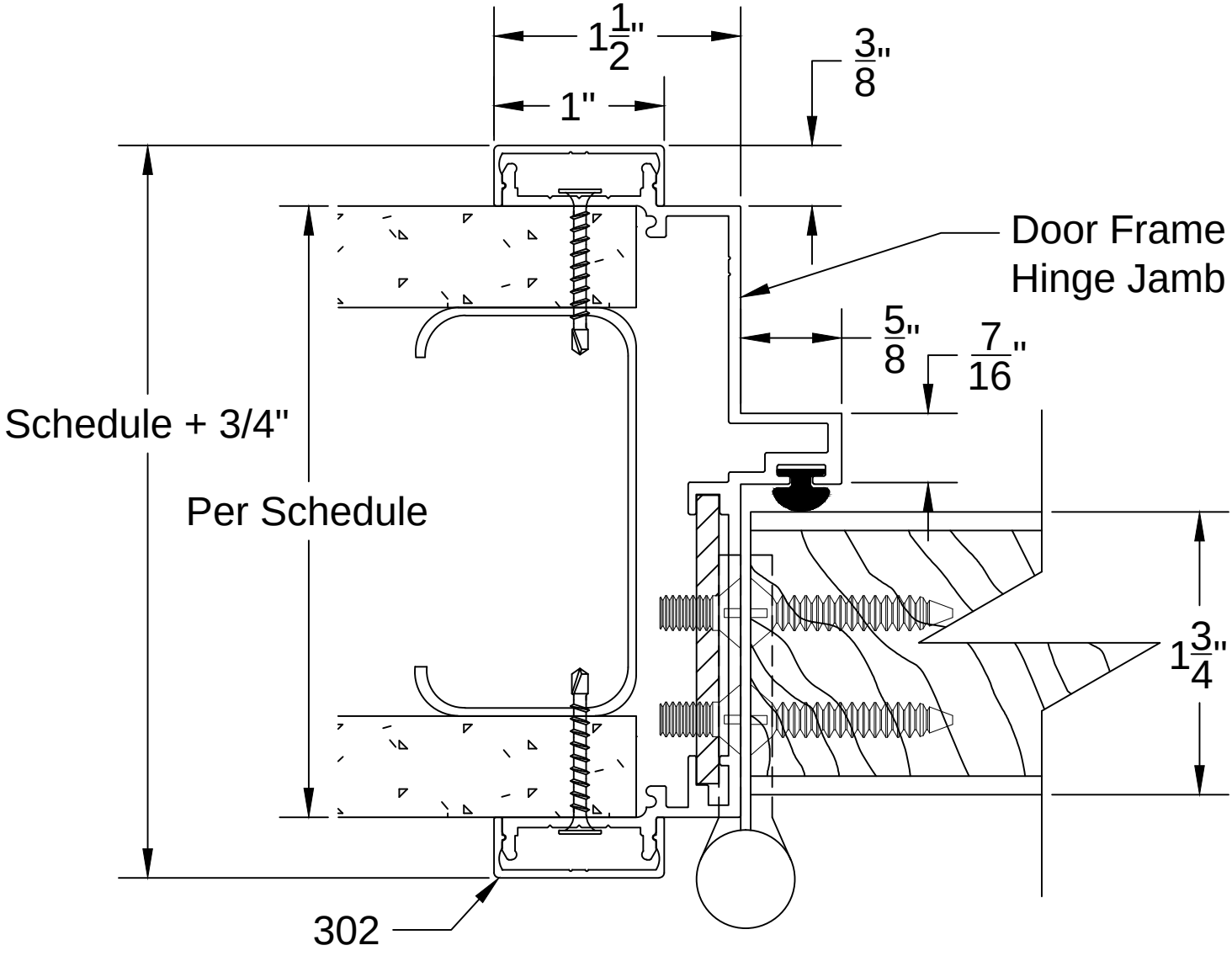
DOUBLE DOOR POCKET FRAME



Rough Opening Width =
W + W + 2 1/2"
Rough Opening Height =
H + 1 3/4"

Effective Date 2/2008

DETAIL 2



300 SERIES DOOR FRAME HINGE JAMB W/ 302 (⅜" X 1") REVEAL TRIM

LET	REVISION	BY	DATE
A			
B			

WESTERN INTEGRATED MATERIALS, INC.
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Long Beach, CA 90805
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www.aluminumdoorframes.com

SCALE	FILE NO. 300-2-302
N/A	DETAIL NO. 2