

DWF 14, DWF 16 & DWF 18 SERIES

SLIP-ON KD DRYWALL FRAME WITH INTEGRAL SMOKE SEALS

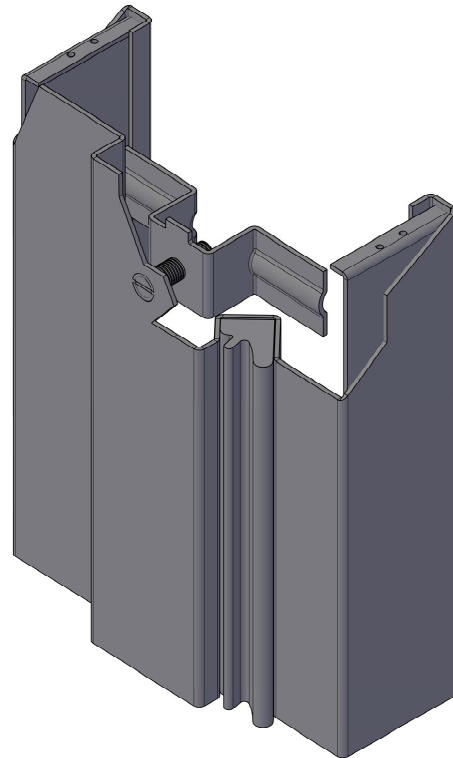
UNI-SEAL® | **UL 1784 compliant smoke seal.**

Specifications

1. Frames shall be formed with a continuous integral groove in the active rabbet. A closed cell neoprene gasket shall be furnished for field installation in the frame groove after finish painting. Frames shall be manufactured from 14, 16 or 18 gage steel per ASTM A 1008, 568 & 569. OR A60 Galvannealed Per ASTM A924 & A653
2. Frames shall be knocked down for field assembly. Miters shall have a precision hairline joint when assembled.
3. Frames shall be constructed with a double return backbend for maximum bearing directly on the wall.
4. Each jamb shall be provided with a permanently installed Compression adjusting anchor.
5. All frames shall be provided with welded-in sill anchors for attachment of the base of the jambs to the floor runner.

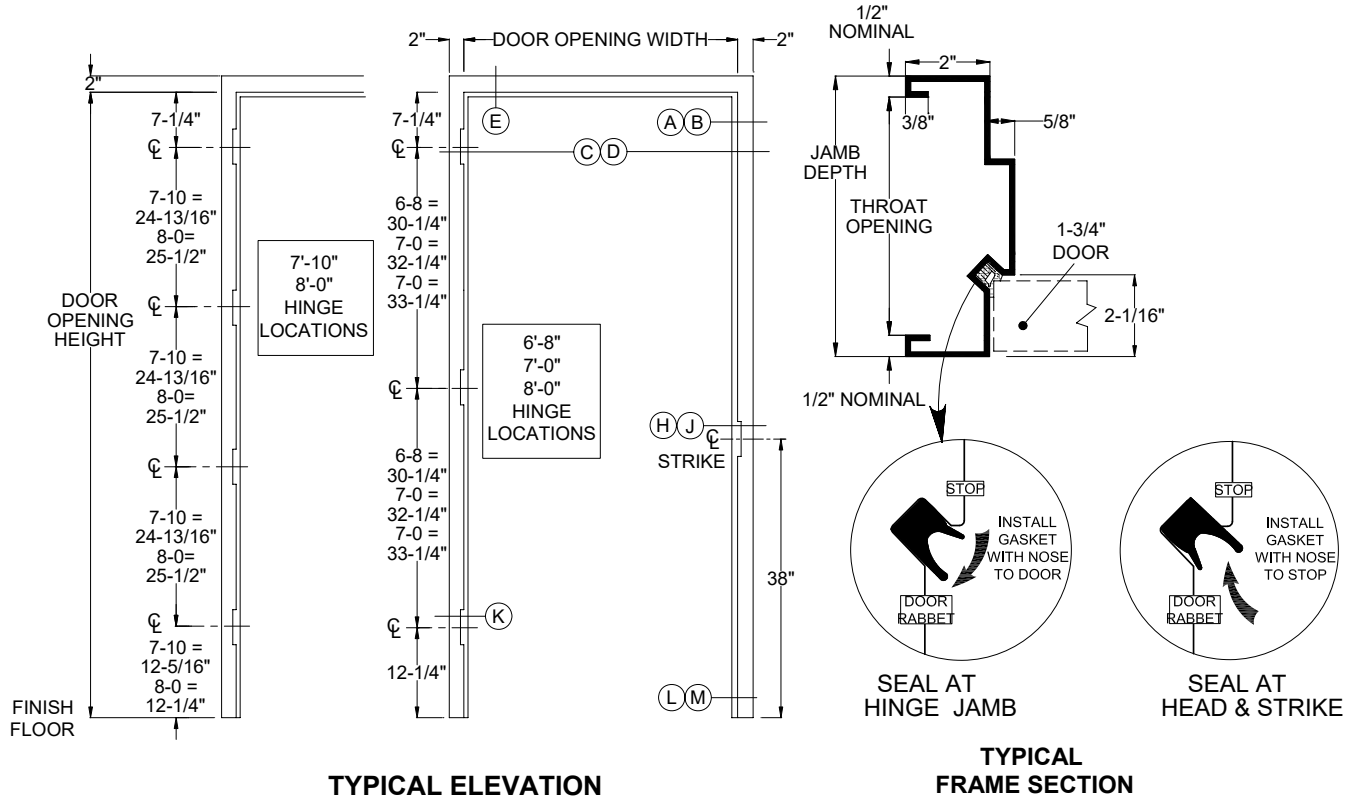
OPTION: Frames shall be provided with pierced holes at the base of the jambs for screw attachment directly to the floor runner.
6. Heads shall be reinforced for surface applied closers, holders or brackets when required.
7. Dual purpose hinge reinforcements shall be 3/16" thick for 1-3/4" door, comes with galvanneal back-up filler plate for standard weight hinges. Conversion from standard weight to heavy weight hinges is done by removing the filler plate.
8. An angle shall be welded inside the base of each jamb to allow for job site vertical shimming.
9. Heads of pair frames over 4'-0" wide and up to 16 gage shall be prepared with a universal "knock-out" to accept flush bolt on inactive door leaf.

OPTION: Heads of pair frames shall be prepared to receive mortised flush bolt strike as required.
10. Frames shall be prime painted by Pioneer's exclusive steel pretreatment process consisting of a wash, phosphate treatment, modern electrostatic painting and oven-baking in compliance with ANSI A250.10.
11. Frames comply with UL1784 for smoke and draft requirement and shall be furnished with WHI Fire rating Label. Frames must be installed in accordance with NFPA 80 and per Pioneer's Installation Instruction.
12. Frame construction complies with ANSI A 250.8 (SDI -100)
13. Hardware preparations and reinforcements comply with ANSI A250.6. Locations are in accordance with ANSI/BHMA A156.115



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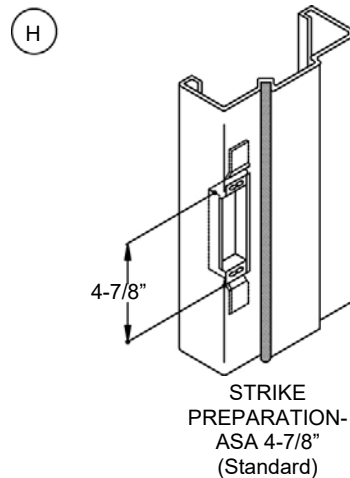
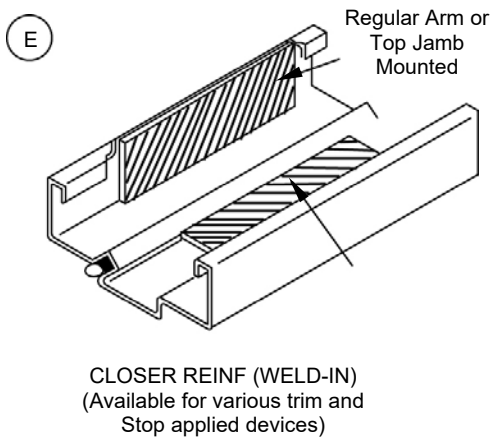
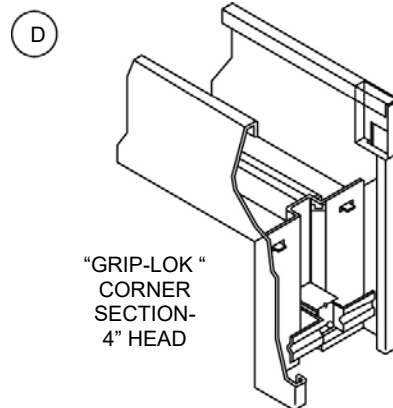
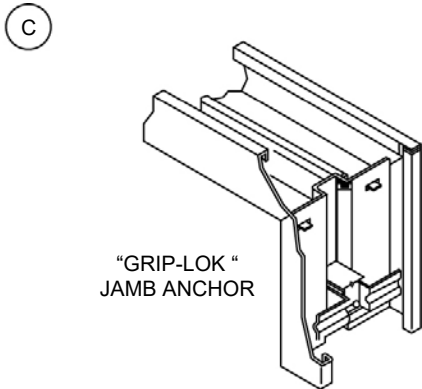
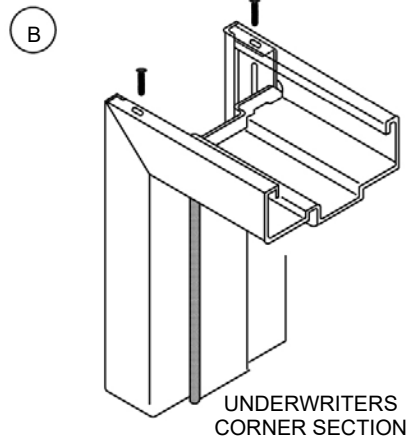
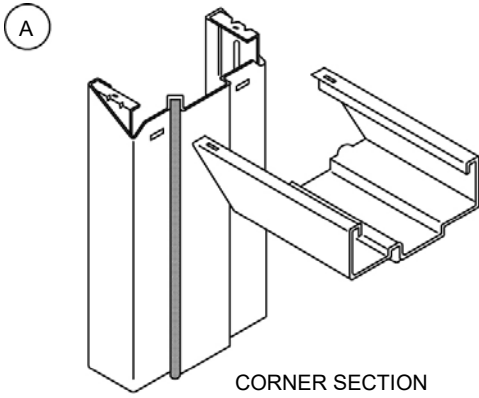


STANDARD SIZES*

DOOR OPENING HEIGHT	DOOR OPENING		JAMB DEPTH
	SINGLE	PAIR	
6'-8" 7'-0" 7'-2" 7'-10" 8'-0"	2'-0"	4'-0"	3-3/8" MIN ↑↓ 4-1/2" MAX.
	2'-4"	4'-8"	
	2'-6"	5'-0"	
	2'-8"	5'-4"	
	2'-10"	5'-8"	
	3'-0"	6'-0"	4-3/4" MIN. ↑↓ 8-3/4" MAX.
	3'-4"	6'-8"	
	3'-6"	7'-0"	
	3'-8"	7'-4"	
	3'-10"	7'-8"	
4'-0"	8'-0"		

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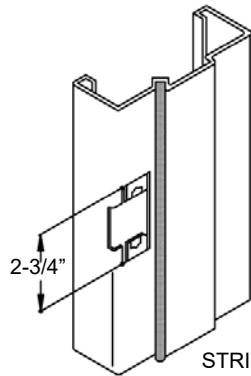
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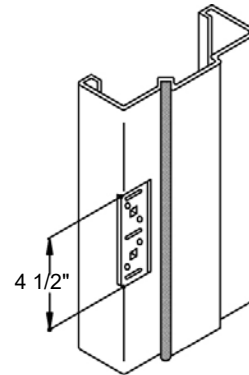
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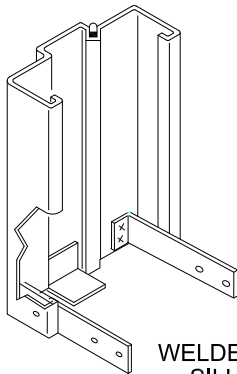
STRIKE PREPARATION-
2-3/4" (OPTIONAL)

K



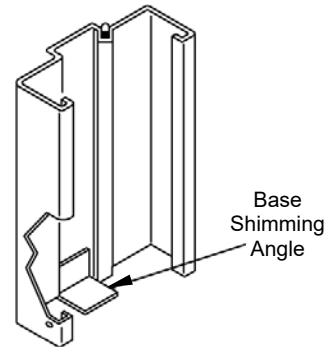
DUAL PURPOSE MORTISE
HINGE PREPARATION WITH
BACKUP FILLER PLATE
(Standard)

L



WELDED STANDARD
SILL ANCHOR

M



SCREW APPLIED SILL
ANCHOR
(Optional)

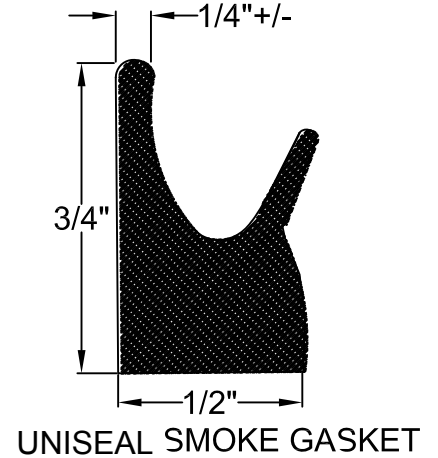
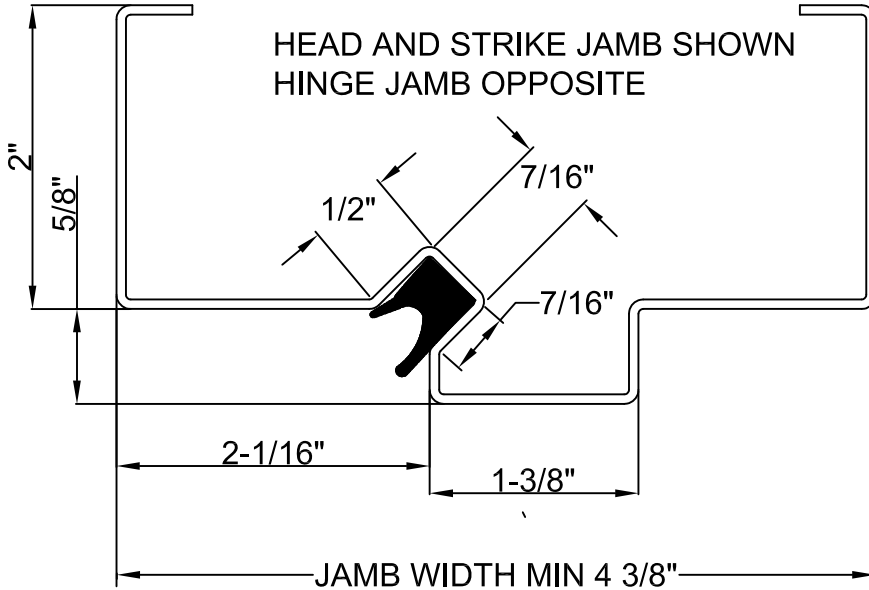
NOTE

In order to provide our customers with the finest products, manufactured in the most up to date manner, Pioneer Industries reserves the right to make design or specific construction changes without notice.

Pioneer Industries will not be responsible for errors incurred by other parties through the use of this data sheet without written confirmation from Pioneer. Other trades should contact Pioneer for exact hardware locations.

INTEGRATED "UNISEAL" SMOKE SEAL

"UNISEAL" SMOKE RATED SEAL DETAILS



GASKET MATERIAL:
NEOPRENE/EP SPONGE
COMPLIES WITH MIL-R-6130C
TYPE II GRADE A
FRAME: 16 OR 14 GAGE.

5.1. RESULTS AND OBSERVATIONS -UL 1784

Closing Force = 8 lbs. Area = 21 ft²

Configuration	Test Pressure ("H ₂ O)	Chamber Temp (°F)	Sample Leakage (SCFM)	Leakage Rate (SCFM/ft ²)
Inswing	0.05	72	15.16	0.72
	0.10	73	24.07	1.15
	0.20	73	34.33	1.63
	0.30	73	41.92	2.00
Outswing	0.05	72	13.64	0.65
	0.10	72	20.68	0.98
	0.20	72	30.14	1.44
	0.30	73	39.90	1.90
Inswing Elevated Temp.	0.05	393	6.01	0.29
	0.10	397	10.08	0.48
	0.20	401	14.53	0.69
	0.30	397	20.10	0.96

Note: All tests were conducted with an artificial bottom seal.

5.1.1. Statement of Measurement Uncertainty

All measurements were taken with 95% confidence level. Pressure measurements were taken with an inclined manometer (WHI #173) with an accuracy of +/- 0.02" w.c. Air flow measurements were taken with a laminar flow element (WHI #562) with an accuracy of +/- 1% of reading. Temperature measurements were taken with a thermocouple meter (WHI #054) with an accuracy of +/- 2 degrees.