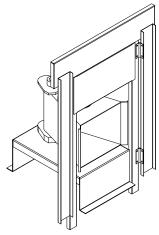


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— 3″ FLANGE.



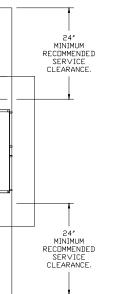
DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

## DIRECT FIRED PROFILE PLATE SPECIFICATIONS: DESCRIPTION: DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT ND.: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF SPPM OF CARBON MONOXIDE (CD), AND 0.5PPM OF NITROGEN DIAXIDE (ND2DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DUWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION: SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

<u>CERTIFICATIONS:</u> ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

<u>GENERAL CONSTRUCTION</u>: -PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL. -PROFILE PLATES SHALL VARY IN SIZE PER UNIT. -PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER. -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES. -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



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NT.S. MASTER DRAWING		CHEN	DRAFT CONSTRUCTION DOCUMENT - NOT FOR PERMIT OR CONSTRUCTION
SHEET NO. 6	UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW. FELLENZER ENGINEERING, LLP CERTIFICATE OF AUTHORIZATION #: 0017795	Date: September 17, 202 Revisions:	4
	WWW.fellp.com		
	22 Mulberry St., Suite 2A,       181 Church St., Suite 100,         Middletown, NY 10940       Poughkeepsie, NY 12601         t 845-343-1481       fx 845-343-4986         t 845-454-9704       fx 855-320-8735         DESIGNED BY:       DRAWN BY:         RW       JCL         #PPROVED BY:       EDF         23-369         ½" ¼" ½" 0       1" 2"         REFERENCE SCALE	H4.06	