



**ST-18** 2 HOUR FIRE ASSEMBLY - MEDIUM WEIGHT STRUCTURAL STEEL COLUMN

TYPICAL ASSEMBLY - MEDIUM WEIGHT STRUCTURAL STEEL MEMBER USED VERTICALLY AS A COLUMN

*Medium weight defined as 10 LBS-23.9 LBS. per liner foot of material*



TO ACHIEVE 2 HOUR RATING (USING CRITERIA 1300 ° F AVERAGE):  
 PREPARATION OF STEEL MEMBER: CLEAN AND APPLY COMPATIBLE STEEL PRIMER @ 2.5 MIL.  
 APPLY 60 MIL THICKNESSES (DRY) OF ForceField® FireGuard® E-84 TO ALL EXPOSED SIDES OF STEEL COLUMN.



SCALE: N.T.S.

FIRE TEST ENDURANCE RATING:	2 HOUR
STANDARD TESTED TO:	ASTM E-119-11A STRUCTURAL STEEL SECTION; NFPA 251; UL 263; ULC S-101-07 WITH NO LOAD CAPACITY, NO RESTRAINT, SMALL SCALE TEST
FIRE TESTED LABORATORY	GUARDIAN FIRE LABORATORIES, INC. 480 HINMAN AVE. BUFFALO, NY 14216
REPORT NO:	GL 115611
PRODUCT:	ForceField® FireGuard E-84® INTUMESCENT COATING (FFG E-84)
MANUFACTURER:	SHIELD INDUSTRIES, INC. 131 SMOKEHILL LANE WOODSTOCK, GA 30188
*SEE MANUFACTURER APPLICATION INSTRUCTIONS AND SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION PROCESS	

**GUARDIAN**

*R. Joseph Pearson*  
*5/20/14*

REGISTERED PROFESSIONAL ENGINEER

LAURA ANN HINTON

4367

INDUSTRIAL

STATE OF CALIFORNIA

*Laura Ann Hinton* 5/19/2014