



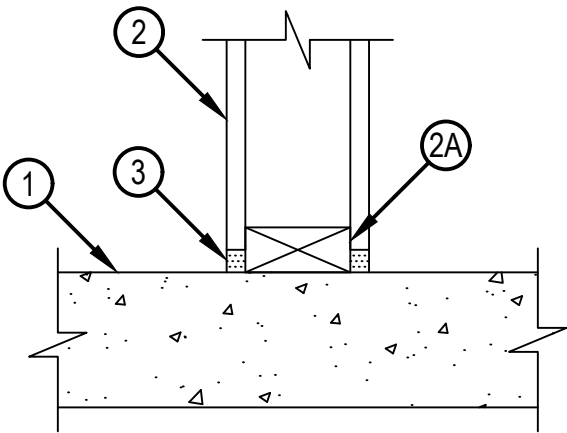
Classified by
Underwriters Laboratories, Inc.
to UL 2079 and CAN/ULC-S115

System No. BW-S-0073

BWS 0073

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 Hr	F Ratings — 1 Hr
Nominal Joint Width – 3/4 in.	FT Ratings — 1 Hr
L Rating at Ambient — Less than 1 CFM/Lin Ft	FH Ratings — 1 Hr
L Rating at 400°F — Less than 1 CFM/Lin Ft	FTH Ratings — 1 Hr
	Nominal Joint Width – 19 mm.
	L Rating at Ambient — Less than 1.55 L/s/m
	L Rating at 204°F — Less than 1.55 L/s/m

CROSS-SECTIONAL VIEW



1. FLOOR ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) STRUCTURAL CONCRETE. FLOOR MAY ALSO BE CONSTRUCTED OF ANY 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*.

SEE PRECAST CONCRETE UNITS CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURES.

1A. (NOT SHOWN, ALTERNATE) THE FIRE-RATED FLUTED STEEL FLOOR UNIT/CONCRETE FLOOR ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL D700 OR D900 SERIES FLOOR-CEILING DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL FLOOR AND FORM UNITS* — MAX 3 IN. (76 MM) DEEP GALV STEEL FLUTED UNITS.

B. CONCRETE — MIN 2-1/2 IN. (64 MM) THICK REINFORCED CONCRETE, AS MEASURED FROM THE TOP PLANE OF THE FLOOR UNITS.

2. WALL ASSEMBLY — THE 1 FIRE-RATED GYPSUM BOARD/LUMBER STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, V300, OR W300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE WALL SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. WALL FRAMING TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) OR LARGER LUMBER SPACED 16 IN. (406 MM) OC. BOTTOM PLATE TO BE SECURED TO THE TOPSIDE OF THE CONCRETE FLOOR WITH CONCRETE SCREW ANCHORS SPACED MAX 24 IN. (610 MM) OC.

B. BATTS AND BLANKETS* — (NOT SHOWN, OPTIONAL) ANY GLASS FIBER INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO FIRE RESISTANCE OR SURFACE BURNING CHARACTERISTICS, OF A WIDTH AND THICKNESS TO COMPLETELY FILL STUD CAVITY. INSULATION BATTS FRICTION FIT TO COMPLETELY FILL ALL STUD CAVITIES.

SEE BATTS AND BLANKETS (BZJZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

C. GYPSUM BOARD* — ONE LAYER OF 5/8 IN. (16 MM) THICK GYPSUM BOARD. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A MAX 3/4 (19 MM) GAP SHALL BE MAINTAINED BETWEEN THE BOTTOM OF GYPSUM BOARD AND TOP OF CONCRETE FLOOR.

3. BOTTOM TRACK SEAL — HILTI CFS-BTS BOTTOM TRACK SEAL TO BE COMPRESSED AND INSERTED INTO JOINT AFTER GYPSUM INSTALLATION SUCH THAT CFS-BTS IS FLUSH WITH THE EXPOSED FACE OF THE GYPSUM. BUTT JOINTS SHALL BE COMPRESSED 1/2 IN. (13 MM). THE ADHESIVE'S BACKING MAY REMAIN ON THE PRODUCT.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BTS 5/8 IN. BOTTOM TRACK SEAL

