

UL/cUL SYSTEM NO. F-A-3088 CABLE BUNDLES THROUGH CONCRETE FLOOR ASSEMBLY

F-RATING = 2-HR. T-RATING = 0-HR.

⁻A3088b.060525

1. CONCRETE FLOOR ASSEMBLY (2-HR. FIRE RATING) :

A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK).

- B. STEEL FLOOR UNIT/FLOOR ASSEMBLY LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 2-1/2" THICK) OVER METAL DECKING (UL/cUL CLASSIFIED D700 OR D900 SERIES).
- 2. CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING :
 - A. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET AND INSULATION.
 - B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
 - C. MAXIMUM 4/0 AWG TYPE RHH GROUND CABLE.
 - D. MAXIMUM 4 PAIR NO. 22 AWG CAT 6 COMPUTER CABLE.
 - E. MAXIMUM RG 6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
 - F. MAXIMUM 21/32" (16.6 MM) FIBER-OPTIC CABLE WITH PVC OR PE JACKET AND INSULATION.
 - G. MAXIMUM 20/C NO. 22 AWG SHIELDED PRINTER CABLE WITH PVC JACKET.
 - H. MAXIMUM 2/C NO. 18 AWG POWER OR NON-POWER LIMITED FIRE ALARM CABLE WITH OR WITHOUT METAL JACKET (MANUFACTURED BY AFC CABLE SYSTEMS, INC.).
 - I. MAXIMUM 1/4" DIAMETER S-VIDEO CABLE CONSISTING OF TWO MAX 24 AWG 75 OHM COAX OR TWISTED PAIR CABLE WITH PE INSULATION AND PVC JACKET.
 - J. ANY CABLES, METAL-CLAD CABLES, OR ARMORED CABLES CURRENTLY LISTED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
 - K. MAXIMUM 3/C NO. 12 AWG METAL CLAD CABLE.
- 3. MINIMUM 1/2" DIAMETER BEAD OF HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT, OR ONE LAYER OF HILTI CP 619T FIRESTOP PUTTY ROLL (1/8" THICK X 1" WIDE) POSITIONED BETWEEN COMPOSITE SHEET AND FLOOR AROUND THE PERIMETER OF THE OPENING AND POSITIONED OVER BUTTED SEAM OR SLIT MADE IN COMPOSITE SHEET (NOT SHOWN OVER SEAM).
- 4. HILTI CFS-COS FIRESTOP COMPOSITE SHEET CUT TO OVERLAP TOP OF FLOOR A MINIMUM OF 2". COMPOSITE SHEET INSTALLED WITH THE ALUMINUM FOIL FACING AGAINST THE FLOOR AND SECURED WITH MINIMUM 3/16" x 1-1/4" LONG STEEL ANCHOR SCREWS WITH 1-1/4" DIAMETER STEEL FENDER WASHERS AT EACH END AND MAXIMUM 4" C/C. AS AN ALTERNATIVE TO CONCRETE ANCHORS, WHEN COMPOSITE SHEET OVERLAPS A MINIMUM OF 3" ONTO FLOOR, 1-1/16" LONG HILTI X-GN 27 MX NAILS IN CONJUNCTION WITH MINIMUM 1-1/4" DIAMETER STEEL FENDER WASHERS MAY BE USED.

	Plano, Texas USA (800) 879-8000	Date	-			
Hilti Firestop Systems		Dale	June 05, 2025	3088b		
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 SEAM IN THE COMPOSITE SHEET. STEEL SHEET METAL SCREWS WI SEAM. [NOT SHOWN] TWO ROWS OF HIL SIDE BY SIDE UNDER PERIMETER OF HILTI CP 619T FIRESTOP PUTT SINGLE DEVICE FLANGE (ITEM 9) MAXIMUM ONE CFS-MSL FGR FLO WITH NO. 10 BY 1" STEEL SHEET I HOLE WITHIN FLOOR GRID. CFS-MSL MODULAR FIRESTOP SI GANGED TOGETHER WITH GANGE INSTRUCTIONS. WHEN GANGED T SUPPORT BRACKET. FIRESTOP D WHEN INSTALLED AS A SINGLE D MODULAR SLEEVE FLANGE. CFS-MSL P SINGLE DEVICE FLAN METAL SCREWS WITH 3/4" STEEL HILTI CP 653 BA 2", CP 653 BA 2" SLEEVE SLID INTO OPENING IN CO FROM TOP OF COMPOSITE SHEET OVER SMOKE GASKETS. SECURE COMPOSITE SHEET IN FLOOR WIT WASHERS THROUGH PRE-MADE I SMOKE GASKETS PROVIDED ARE 	EEL STRIP (MIN. 24 GA.) CENTERED OVER . COVER STRIP SECURED TO COMPOSITE ITH 3/4" WASHERS SPACED 6" O/C ALTER .TI CP 619T FIRESTOP PUTTY ROLL (1/8" T & OF FLOOR GRID (ITEM 7) AND TIGHT TO C Y ROLL (1/8" THICK x 1" WIDE) POSITIONE AND TIGHT TO THE DEVICE. OOR GRID [18" x 4" OR 24" x 4"] TO BE SEC METAL SCREWS WITH 3/4" STEEL WASHE LEEVE(S) [S, M, OR L] TO BE INSTALLED A ING CLIPS IN ACCORDANCE WITH ACCOM TOGETHER DEVICES TO BE BOLTED TO FL DEVICES TO COMPLETELY FILL ACROSS ED DEVICE THE DEVICE IS TO BE INSTALLED V IGE TO BE SECURED TO COMPOSITE SHEI . WASHERS AT EACH PRE-DRILLED HOLE " ILS, CP 653 BA 4", CP 653 BA 4" ILS, OR C OMPOSITE SHEET SUCH THAT THE TOP O T. DEVICE FLANGE TO BE SPUN CLOCKWIS DEVICE FLANGE TO TOP SURFACE OF HI TH NO. 10 x 3/4" LONG STEEL SHEET META HOLES IN DEVICE FLANGE. SPEED SLEEV LOCATED BETWEEN DEVICE FLANGE AN D TO CLOSE OFF ANY UNUSED OPENING V	SHEET WITH NO. 10 BY 3/4" NATING ON EACH SIDE OF HICK x 1" WIDE) POSITIONED GANGED DEVICES. ONE ROW D UNDER PERIMETER OF CURED TO COMPOSITE SHEET RS AT EACH PRE-DRILLED S A SINGLE DEVICE OR PANYING INSTALLATION OOR GRID WITH PROVIDED NTIRE WIDTH OF FLOOR GRID. VITHIN HILTI CFS-MSL P ET WITH 1" STEEL SHEET WITHIN FLANGE. CFS-SL GA L ILS SPEED F THE DEVICE PROJECTS 4" SE ONTO DEVICE THREADS LTI CFS-COS FIRESTOP LS SCREWS WITH MIN 3/4" E IS INSTALLED SO BOTH D COMPOSITE SHEET. INNER /ITHIN DEVICE.
Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 3 of 4 Drawing No. Scale - FA Date June 05, 2025 3088b
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