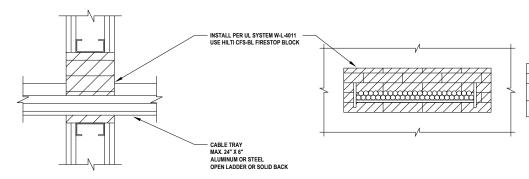


CABLE BUNDLE CONSISTS OF:				
TYPE	MAX.	TYPE	MAX.	
TELEPHONE CABLE WITH PVC JACKET	100 PAIR NO. 24 AWG	COAXIAL CABLE	RG 6/U	
COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION	7/C NO. 12 AWG	FIBER OPTIC CABLE (24 FIBER) WITH PVC OR PE JACKET AND INSULATION	1/2" DIA.	
TYPE RHH GROUND CABLE	4/0 AWG	MC CABLE	3/C NO. 12 AWG	
COMPUTER CABLE	4 PAIR NO. 22 AWG CAT 5 OR CAT 6			

MULTIPLE CABLE BUNDLES THROUGH GYPSUM WALL ASSEMBLY (2-HR.)

E.4.4

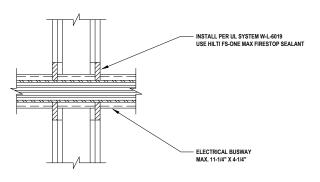


CABLE BUNDLE CONSISTS OF:					
TYPE	MAX.	TYPE	MAX.		
TELEPHONE CABLE	300 PAIR NO. 24 AWG	FIBER OPTIC CABLE (24 FIBER)	1/2" DIA.		
SINGLE CONDUCTOR POWER CABLE	750 KCMIL	METAL-CLAD CABLE	3/C NO. 12 AWG		

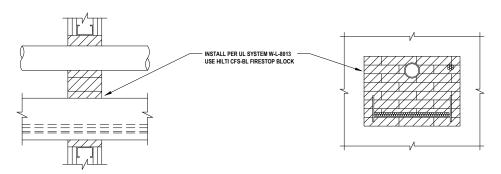
CABLE TRAY THROUGH GYPSUM WALL ASSEMBLY (2-HR.)

E.4.4

E.4.4



ELECTRICAL BUSWAY THROUGH GYPSUM WALL ASSEMBLY (2-HR.) NOT TO SCALE



MULTIPLE PENETRATIONS THROUGH GYPSUM WALL ASSEMBLY (2-HR.) NOT TO SCALE E.4.4

- Refer to the following specifications for firestopping.
 - a. 07 84 00 Firestopping
 - b. 07 84 13 Penetration Firestopping
 - c. 22 00 00 Plumbing d. 23 00 00 HVAC
 - e. 26 00 00 Electrical

f. 27 06 37 Communication

For Quality Control requirements, refer to the Quality Control portion of the specification.

- 2. Details shown are typical details, containing general information only. Always refer to the full UL system detail for complete system requirements. If field conditions do not match requirements of details, approved alternate details shall be utilized. Design requirements, field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following:
 - * Fire Rating (F-Rating)
 - * Temperature Rating (T-Rating) * Leakage Rating (L-Rating)
 - * Water Rating (W-Rating)
 - * Annular Space
 - * Percent Fill
 - * Movement
- * Type and thickness of fire-rated construction.
- 3. If alternate details matching the field conditions are not available, manufacturer's engineering judgment drawings are acceptable. Contact Hilti Inc. for alternative systems or Engineering Judgment (800-879-8000) Drawings shall follow the International Firestop Council (IFC) Guidelines for Evaluating Firestop Systems Engineering Judgments.

4. References:

- * 2013 Underwriter's Laboratories Fire Resistance Directory, Volumes 1 & 2
- * NFPA 101 Life Safety Code
- * NFPA 70 National Electric Code
- * All governing local and regional building codes 5. Firestop System installation must meet requirements of ASTM
- E-814 (UL 1479) tested assemblies that provide a fire rating equal to that of construction being penetrated.
- 6. All rated through-penetration assemblies shall be prominently labeled with a Hilti Firestop Label equipped with a QR code with the following information: *Warning! - Do Not Disturb

 - *Through Penetration Firestop System
 - * UL System # * Product(s) used
 - * Hourly Rating (F-Rating)
 - * Installation Date *Contractor's Name
- 7. For outlet boxes requiring protection, use only Wall Opening Protective Materials, category CLIV as classified by Underwriter's Laboratories, Fire Resistance Directory (Volume 1.)

ce with ttle block inforn n application/system no grature or fire ratings. to designer (delete this note after i 1. Any modification to these details. UL or Intertek Classification or tf 2. Details shown are up to date as 3. For additional information on the Laboratories Fire Resistance Dir

most current "Underwriter's

2. ε.

JOB NUMBER:

CHECKED:

ISSUE DATE:

REVISIONS:

CONTENTS:

ELECTRICAL PENETRATIONS GYPSUM WALL 2 HR.

SHEET NAME:

E.4.4

SHEET NUMBER: