

[illegible]

1 INPUT/OUTPUT MATRIX



UL SYSTEM W-L-1079*
STUD WALL PENETRATION DETAIL



UL SYSTEM C-AJ-1090*
 CONCRETE FLOOR PENETRATION DETAIL
 9 SCALE: NONE

THROUGH PENETRATION FIRESTOP SCHEDULE						
- THIS SCHEDULE IDENTIFIES REQUIREMENTS FOR ACCEPTABLE THROUGH PENETRATION FIRESTOPS FOR THIS PROJECT BASED ON BARRIER TYPE, BASIS OF BARRIER CONSTRUCTION, AND PENETRANT TYPE. - THROUGH PENETRATION FIRESTOPS ARE NOT REQUIRED FOR FLOOR PENETRATIONS CONTAINED TOTALLY WITHIN A RATED SHAFT ENCLOSURE. - NOMENCLATURE OF UL CLASSIFIED FIRESTOP ASSEMBLIES USED IN THE CONTRACT DOCUMENTS IS IDENTICAL TO THAT USED IN CATALOGS OF APPROVED FIRESTOP MANUFACTURERS AND IN UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY".						
RATED BARRIER			PENETRANT TYPE			
FIRESTOP ASSEMBLY REQUIREMENTS						
TYPE	BASIS OF CONSTRUCTION					
				METALLIC CONDUIT	NONMETALLIC CONDUIT	ELECTRICAL BOXES
WALL	METAL STUDS & GYPSUM WALLBOARD (U400 SERIES)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # W-L-1079 DETAIL #8	N/A	CEYY OR CLIV
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS	NOTE 1		N/A	NOTE 1 & 2
WALL	POURED CONCRETE, CONCRETE BLOCK OR MASONRY (BLOCK & U900 SERIES) (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #10	UL # C-AJ-2038 DETAIL #12	CEYY
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS	NOTE 1		NOTE 1	NONE
FLOOR	POURED CONCRETE (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #9	UL # C-AJ-2038 DETAIL #11	CEYY
			MULTIPLE PENETRANTS			N/A

1. OPENINGS ACCOMMODATING NONCOMBUSTIBLE CONDUITS THROUGH SINGLE MEMBRANES WHICH ARE PART OF A FIRE RESISTANCE RATED WALL ASSEMBLY ARE PERMITTED WHEN:
 - A. AGGREGATE AREA OF THE MEMBRANE OPENINGS DO NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA.
2. CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED AT ELECTRICAL BOXES WHEN ALL THE FOLLOWING CONDITIONS ARE MET:
 - A. ELECTRICAL BOX IS STEEL AND UL LISTED.
 - B. AREA OF INDIVIDUAL BOX DOES NOT EXCEED 16 SQUARE INCHES.
 - C. OUTLET BOXES ON OPPOSITE SIDES OF THE WALL ARE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.

13 THROUGH PENETRATION FIRESTOP SCHEDULE
SCALE: NONE

