

[illegible]

40 NOT USED

35

NOT USED

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39 NOT USED

SYSTEM N° F-B-2046

F RATING 3 HR
T RATING 0 HR

1. **FLOOR ASSEMBLY** —LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE FLOOR ASSEMBLY. MIN CONCRETE THICKNESS IS 6 IN. (152 MM).

2. **PRESTOP SYSTEM** —PRESTOP DEVICE* — CAST IN PLACE PRESTOP DEVICE PERMANENTLY EMBEDDED DURING CONCRETE PLACEMENT OR GROUTED IN CONCRETE ASSEMBLY IN ACCORDANCE WITH ACCOMPANYING INSTALLATION INSTRUCTIONS.

3. **DRAIN PIPING** —NOM 1-1/2 IN. (38 MM) OR 2 IN. (51 MM) DRAIN SCHEDULE 40 CELLULAR OR SOLID CORE POLYVINYL CHLORIDE (PVC) PIPE A DRAIN FITTINGS CEMENTED TOGETHER.

4. **WASTE/OVERFLOW FITTING** —NOM 1-1/2 IN. (38 MM) OR 2 IN. (51 MM) DRAIN WASTE/OVERFLOW FITTING, FORMED OF POLYVINYL CHLORIDE (PVC) BEARING THE UL CLASSIFICATION MARK.

* **PRESTOP DEVICE*** —CAST IN PLACE PRESTOP DEVICE INSTALLED FLUSH WITH THE BOTTOM SURFACE OF THE FLOOR AND TRIMMED 3 IN. (76 MM) BELOW THE TOP SURFACE OF THE FLOOR. SPECIFIED TECHNOLOGIES INC —C0200

* **TUB BOX*** —NOM 9-5/8 BY 12-3/4 BY 3 IN. (244 BY 324 BY 76 MM) POLYPROPYLENE (PP) TUB BOX WITH ADJUSTABLE LIDS, SECURED TO TOP OF CAST-IN DEVICE, C0200 (ITEM 24) AND CAST INTO CONCRETE SLAB, FLUSH WITH TOP SURFACE OF FLOOR. SPECIFIED TECHNOLOGIES INC —C0200T

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38 NOT USED

SYSTEM N°. F-C-2035

F RATING **1** HR
T RATING **1** HR

1. FLOOR CEILING ASSEMBLY THE 1 HR FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL L5000 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:

- A) FLOORING SYSTEM** LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIAM OF FLOOR OPENING IS 4-1/2 IN. (114 MM).
- B) WOOD JOISTS** NOM 2 BY 10 IN. (51 BY 254 MM) LUMBER JOISTS SPACED 16 IN. (406 MM) OC WITH NOM 1 BY 3 IN. (25 BY 76 MM) LUMBER BRIDGING AND WITH ENDS FIRSTPOSTED, AS AN ALTERNATE TO LUMBER JOISTS. NOM 10 IN. (254 MM) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED WITH ENDS FIRSTPOSTED.
- C) FURRING CHANNELS** (NOT SHOWN) RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS (ITEM 1B) BETWEEN GYPBOARD BOARD (ITEM 1D) AND WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
- D) GYPBOARD BOARD*** NOM 4 FT (1.2 M) WIDE BY 5/8 IN. (16 MM) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPBOARD BOARD SECURED TO WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIAM OF CEILING OPENING IS 5 IN. (127 MM).

2. CHASE WALL (OPTIONAL) – THE THROUGH PENETRANT (ITEM 3) MAY BE ROUTED THROUGH A 1 HR FIRE RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPBOARD BOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL L5000 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL HAVE THE FOLLOWING CONSTRUCTION DETAILS:

- A) STUDS** NOM 2 BY 6 IN. (51 BY 152 MM) OR DOUBLE NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER STUDS.
- C) SOLE PLATE** NOM 2 BY 6 IN. (51 BY 152 MM) OR PARALLEL 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED.
- C) TOP PLATE** THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 6 IN. (51 BY 152 MM) OR TWO SETS OF PARALLEL 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED. MAX DIAM OF OPENING IS 5 IN. (127 MM).
- D) GYPBOARD BOARD*** THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

3. THROUGH PENETRANTS ONE NONMETALLIC PIPE TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. DIAM OF OPENING HOLE–SAWED THROUGH CEILING OR FLOORING (ITEM 1B) TO BE EQUAL TO THE OUTSIDE DIAM OF PIPE. DIAM OF CIRCULAR OPENING HOLE–SAWED THROUGH TOP PLATE (ITEM 2C) TO BE MAX 1/2 IN. (13 MM) LARGER THAN OUTSIDE DIAM OF PIPE THROUGH BOTH THICKNESSES OF THE LUMBER TOP PLATE. MAX ONE PIPE PER PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:

- A) POLYVINYL CHLORIDE (PVC) PIPE** NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 CELLULAR OR SOLID CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.

FC 2035

N.I.T.S.

SYSTEM N°. F-C-2032

F RATING 1 HR

T RATINGS 0, 1/4, 3/4 AND 1 HR (SEE ITEM 2)

L RATING AT AMBIENT LESS THAN 1 CFM/SQ FT

L RATING AT 400 F LESS THAN 1 CFM/SQ FT

SECTION A-A

1. FLOOR CEILING ASSEMBLY THE 1 HR FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE

GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CELING ASSEMBLY ARE SUMMARIZED BELOW:

- A) FLOORING SYSTEM** LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR VINYL PLANK 1" THICK (102 MM) AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIA OF FLOOR OPENING IS 4 IN. (102 MM).
- B) WOOD JOISTS** NOM 2 BY 12 (102 MM), (51 BY 254 MM) LUMBER JOISTS SPACED 16 IN. (406 MM) OC OR 18 IN. (457 MM) OC, OR 2" (51 MM) THICK CONCRETE JOISTS AS SPECIFIED IN THE DESIGN. JOISTS SHALL ALTERNATE TO LUMBER JOISTS, NOM 10 IN. (254 MM) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING OR BRACING AND END BRACING AND END BRACING AS SPECIFIED IN THE DESIGN.
- C) FURRING CHANNELS** (NOT SHOWN) RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS (ITEM 1B) BETWEEN SUBFLOOR (ITEM 1A) AND WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
- D) GYPSUM BOARD*** NOM 5 FT (1.5 M) WIDE BY 5/8 IN. (16 MM) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIA OF CEILING OPENING IS 4 IN. (102 MM).

1.1 CHASE WALL (OPTIONAL, NOT SHOWN) THE THROUGH PENETRANT (ITEM NO. 2) MAY BE ROUTE THROUGH A FIRE RATED OR NON FIRE RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM BOARD CHASE WALL. CHASE WALL SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND IN THE MANNER SPECIFIED IN THE UDOODAL UOOS SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A) STUDS** NOM 2 BY 4 IN. (51 BY 102 MM), 2 BY 6 IN. (51 BY 152 MM) OR DOUBLE 2 BY 4 IN. (51 BY 102 MM) LUMBER STUDS.
- B) TOP PLATE** NOM 2 BY 4 IN. (51 BY 102 MM), 2 BY 6 IN. (51 BY 152 MM) OR PARALLEL 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED.
- C) TOP PLATE** THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER PLATES, TIGHTLY BUTTED. MAX DIA OF OPENING IS 4 IN. (102 MM).
- D) GYPSUM BOARD*** THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.

2. THROUGH PENETRANTS ONE NONMETALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. DIA OF OPENINGS HOWE-SAVED THROUGH FLOORING SYSTEM AND THROUGH GYPSUM BOARD CEILING TO BE: 1/4 TO 1+5/8 IN. (6 TO 41 MM) LARGER THAN THE OUTSIDE DIA OF THROUGH PENETRANT. CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- A) POLYVINYL CHLORIDE (PVC) PIPE** NOM 2 IN. (51 MM) DIA (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR EXCEPT THAT WHEN NOM DIA OF PIPE EXCEEDS 1 IN. (25 MM), THE T RATING IS 1 1/4 HR.
- B) RIGID NONMETALLIC CONDUIT*** NOM 2 IN. (51 MM) DIA (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE (NFPA NO. 70). THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR EXCEPT THAT WHEN NOM DIA OF PIPE EXCEEDS 1 IN. (25 MM), THE T RATING IS 1 1/4 HR.
- C) CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE** NOM 2 IN. (51 MM) DIA (OR SMALLER) SCHEDULE 40 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR EXCEPT THAT WHEN NOM DIA OF PIPE EXCEEDS 1 IN. (25 MM), THE T RATING IS 1 1/4 HR.
- D) ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE** NOM 2 IN. (51 MM) DIA (OR SMALLER) SCHEDULE 40 CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 0 HR.
- E) POLYURETHANE (PU) PIPE** NOM 2 IN. (51 MM) DIA (OR SMALLER) 11 PB PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR.
- F) THE T LINKED POLYETHYLENE ALUMINUM-CROSS LINKED POLYETHYLENE (PEXAL-PEX) TUBING** NOM 1 IN. (25 MM) DIA (OR SMALLER) SDR 5 PEX-AL-PEX TUBING FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 3/4 HR.
- G) CROSS LINKED POLYETHYLENE (PEX) TUBING** NOM 2 IN. (51 MM) DIA (OR SMALLER) SDR 9 PEX TUBING FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR.
- H) ELECTRICAL NONMETALLIC TUBING (ENT)*** NOM 2 IN. (51 MM) DIA (OR SMALLER) PVC TUBING INSTALLED IN ACCORDANCE WITH ARTICLE 352 OF THE NATIONAL ELECTRICAL CODE (NFPA NO. 70). THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR EXCEPT THAT WHEN NOM DIA OF TUBE EXCEEDS 1 IN. (25 MM), THE T RATING IS 1 1/4 HR.
- I) CHLORINATED POLYETHYLENE (CPVC) PIPE** NOM 2 IN. (51 MM) DIA (OR SMALLER) SCHEDULE 40 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. THE T RATING FOR THE FIRESTOP SYSTEM WHEN THIS PENETRANT IS USED IS 1 HR EXCEPT THAT WHEN NOM DIA OF PIPE EXCEEDS 1 1/2 IN. (38 MM), THE MAX ANNUAL SPCR IS 5/8 IN. (16 MM).

3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL APPLIED WITH ANNULUS ON TOP SURFACE OF FLOOR, MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITH ANNULUS ON BOTTOM SURFACE OF CEILING OR LOWER TOP PLATE OF CHASE WALL. AN ADHESIVE, ADHESIVE SEALANT OR ADHESIVE SEALANT WITH AN ADHESIVE GROUT IS FORMED AROUND THE THROUGH PENETRANT ON BOTTOM SURFACE OF CEILING OR LOWER PLATE OF CHASE WALL ASSEMBLY.

SPECIFIED TECHNOLOGIES INC. - SPECIAL SPEC SSS SEALANT, R SPECIAL ILC SEALANT, ON TYPE W5300 FIRESTOP

132 FC 2032

N.T.S

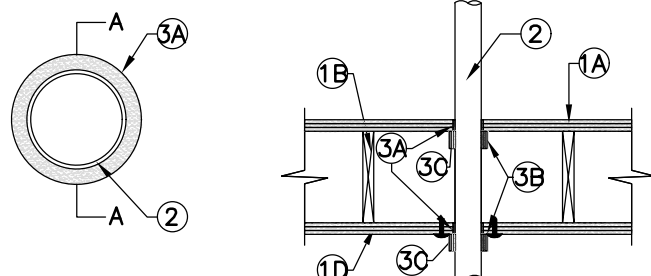
SYSTEM N°. F-C-2022

F RATINGS 1 AND 2 HR (SEE ITEM 1)

T RATINGS 1 AND 2 HR (SEE ITEM 1)

L RATING AT AMBIENT 1 CFM/SQ FT

L RATING AT 400 F LESS THAN 1 CFM/SQ FT



SECTION A-A

1. FLOOR-CEILING ASSEMBLY – THE 1 HR FIRE-RATED SOLID OR TRUSSUED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL 1500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE 2 HR FIRE-RATED WOOD JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE UL FIRE RESISTANT LUMBER JOISTS, 15/16" DEEP (19 MM) THICK, S4S FINISHED, WITH A MINIMUM OF TWO (2) END GRAINS PER JOIST AND R1 RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE FLOOR-CEILING ASSEMBLY. THE GENERAL CONSTRUCTION FEATURES OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW.

- (A) FLOORING SYSTEM** – LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DAMP OF FLOOR OPENINGS IS 5 IN. (127 MM)
- (B) WOOD JOISTS*** – FOR 1 HR FIRE-RATED FLOOR-CEILING ASSEMBLIES, NOM 10 IN. (254 MM) DEEP (OR DEEFER) LUMBER STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS** WITH BRIDGING AS REQUIRED AND WITH ENDS PRESTRESSED. FOR 2 HR FIRE-RATED FLOOR-CEILING ASSEMBLIES, NOM 2 BY 10 IN. (51 BY 254 MM) LUMBER JOISTS SPACED 16 IN. (406 MM) OC WITH NOM 1 BY 3 IN. (25 BY 76 MM) LUMBER BRIDGING AND WITH ENDS PRESTRESSED.
- (C) FURRING CHANNELS** – (NOT SHOWN) – NOM 2 IN. 2 HR FIRE-RATED ASSEMBLIES, RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS BETWEEN FIRST AND SECOND LAYERS OF WALLBOARD (ITEM ID). FURRING CHANNELS SPACED MAX 24 IN. (610 MM) OC. IN 1 HR FIRE-RATED ASSEMBLIES, RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS BETWEEN WALLBOARD AND WOOD JOISTS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. FURRING CHANNELS SPACED MAX 24 IN. (610 MM) OC.
- (D) GYPSUM BOARD** – NOM 4 FT (1220 MM) HIGH BY 5/8 IN. (16 MM) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. FIRST LAYER OF GYPSUM BOARD SECURED TO WOOD JOISTS OR FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. SECOND LAYER OF GYPSUM BOARD (2 HR FIRE-RATED ASSEMBLY) SCREW-ATTACHED TO FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. THE SECONDARY STEEL COLLAR/WRAP STRIP ASSEMBLY (ITEMS 3B AND 3C) MUST BE INSTALLED IN THE JOIST CAVITY PRIOR TO INSTALLATION OF SECOND LAYER GYPSUM BOARD.

2. THROUGH PENETRANTS – ONE NONMETALLIC PIPE OR CONDUIT TO BE INSTALLED APPROXIMATELY MIDWAY BETWEEN WOOD JOISTS AND CENTERED WITHIN THE FIRESTOP SYSTEM. DIAL OF OPENINGS HOLE-SAWED THROUGH FLOORING SYSTEM AND THROUGH GYPSUM WALLBOARD CEILING TO BE NOM 1/4 IN. (6 MM) LARGER THAN THE OUTSIDE DIAM OF THROUGH-PENETRANT PIPE OR CONDUIT TO ALLOW PROPER FITTING OF THE THROUGH-PENETRANT SEALANT. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:

- (A) POLYMAL CHLORIDE (PVC) PIPE** – NOM 4 IN. (102 MM) DIA (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE TO BE USED IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
- (B) RIGID NONMETALLIC CONDUIT** – NOM 4 IN. (102 MM) DIA (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE (NEFC) NO. 70).
- (C) CALIBRATED POLYETHYLENE CHLORIDE (CPVC) PIPE** – NOM 4 IN. (102 MM) DIA (OR SMALLER) SDR 13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEM.

3. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

- (A) FILL VOID OR CAVITY MATERIAL** – SEALANT – FILL MATERIAL FORCED INTO ANNULAR SPACES TO MAX EXTENT POSSIBLE, FLUSH WITH BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

SPECIALIZED TECHNOLOGIES INC – SPECIALSE, SERIES SSS SEALANT OR SPECIALSD LO SEALANT

- (B) FILL VOID OR CAVITY MATERIAL** WRAP STRIP** – NOM 1/8 OR 3/16 IN. (3.2 OR 4.8 MM) THICK INSULVENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 2 IN. WIDE STRIPS OR NOM 1/4 IN. (6 MM) THICK INSULMENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 1-1/2 IN. (38 MM) WIDE STRIPS. THE INTERIORS OF WRAP STRIPS ARE INDIVIDUALLY WRAPPED AROUND THE THROUGH-PENETRANT WITH THE ENDS BUTTED AND HEAT SEALED WITH TACKLING TAPE. WRAP STRIPS SHALL BE APPLIED TO EACH SIDE OF THE THROUGH-PENETRANT AT THE POINT OF FLOOR (ITEM 1A) AND UNDERSIDE OF GYPSUM BOARD CEILING (ITEM ID). THE NUMBER OF WRAP STRIPS REQUIRED IS DEPENDENT UPON THE DIAM OF THE THROUGH-PENETRANT AS TABULATED BELOW:

DIA.M OF THROUGH-PENETRATION, IN. (MM)	NO. OF WRAP STRIPS
2 (51)	1
3 (76)	2
4 (102)	3

C) STEEL COLLAR – COLLAR FABRICATED FROM COLLS OF PRECUT 0.016 IN. (0.4 MM) STEEL (30 MSG) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. COLLAR SHALL BE -1/12 IN. (.38 MM) OR 2 IN. (51 MM) DEEP WITH ANCHOR 3/4 IN. (19 MM) WIDE BY 2 IN. (51 MM) LONG ANCHOR TABS FOR SEGMENTED TO THE CONCRETE FLOOR OR WALL RETAINER TABS, 3/4 IN. (19 MM) WIDE TAPERING DOWN TO 1/4 IN. (6 MM) WIDE AND LOCATED OPPOSITE THE ANCHOR TABS, ARE FOLDED 90 DEGREES TOWARD PIPE SURFACE TO MAINTAIN THE ANNULAR SPACE AROUND THE PIPE AND TO RETAIN THE WRAP STRIPS. STEEL COLLAR WRAPPED AROUND WRAP STRIPS AND THROUGH-PENETRANT WITH A 1 IN. (25MM) WIDE OVERLAP ALONG ITS PERIMETER JOINT AND SECURED THROUGH BY MEANS OF THREE NO. 8 BY 3/8 IN. (10 MM) STEEL SCREWS. AS AN ALTERNATE TO THE STEEL SCREWS, THE STEEL COLLAR CAN BE SECURED THROUGH BY MEANS OF A MIN 1/2 IN. (13 MM) WIDE BY 3/16 IN. (0.7 MM) THICK STAINLESS STEEL THESE CLAMP INSTALLED AT MIDHEIGHT OF THE COLLAR. COLLAR SECURED TO SUBFLOOR WITH MIN NO. 8 BY 3/4 IN. (19 MM) LONG WOOD SCREWS IN CONJUNCTION WITH 1/4 IN. (6 MM) BY 1-1/4 IN. (32 MM) DIA STEEL FENDER WASHERS. COLLAR SECURED TO FINISHED GYPSUM BOARD OR FLOORING WITH 3/16 IN. (5 MM) BY 3-1/2 IN. (89 MM) LONG TIE ROD BOLT IN CONJUNCTION WITH 1/4 IN. (6 MM) BY 1-1/4 IN. (32 MM) DIA STEEL FENDER WASHERS. THE NUMBER OF SCREWS USED IS DEPENDENT UPON THE NOM DIA.M OF THE THROUGH PENETRANT. TWO SCREWS, SYMMETRICALLY LOCATED, ARE REQUIRED FOR NOM 1-1/2 AND 2 IN. (38 AND 76 MM) DIA.M THROUGH PENETRANTS. FOUR SCREWS, SYMMETRICALLY LOCATED, ARE REQUIRED FOR NOM 2-1/2 AND 3 IN. (64 AND 76 MM) DIA.M THROUGH PENETRANTS. FOUR SCREWS, SYMMETRICALLY LOCATED, ARE REQUIRED FOR NOM 4 AND 4 IN. (89 AND 102 MM) DIA.M THROUGH PENETRANTS.

[illegible]2203

GATEWAY LUXURY APARTMENTS

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DATE	11/09/21
DRAWN	CR
PROJECT No.	2203
SCALE	AS-SHOWN

FIRE STOPPING
DETAILS

PZ22-12000008
6/15/2022