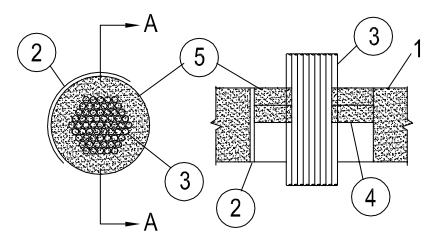


System No. C-AJ-3030
(Formerly System No. 320)
F Ratings - 1-1/2, 2 and 3 Hr (See Item 5)
T Rating - 0 Hr
L Rating At Ambient - 129 CFM/sq ft
L Rating At 400 F - 92 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly - Min 2-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Sleeve (Optional) - Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel pipe or nom 6 in. diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast into floor or wall assembly. Sleeve to be flush with or project max 2 in. from top surface of floor or both surfaces of wall. When PVC sleeve is used, max cable conductor size is No. 12 AWG.

3. Cables - Aggregate cross-sectional area of cables to be min 10 percent to max 40 percent of the cross-sectional area of the opening. Cables to be rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:

- A. Max 1000 kcmil single-conductor copper or aluminum power cable; cross-linked polyethylene insulation.
- B. Max No. 2/0 AWG multiconductor copper or aluminum power cables; cross-linked polyethylene, polyvinyl chloride, neoprene rubber, hypalon or silicone rubber insulation and jacket materials.
- C. Max No. 12 AWG multiconductor copper control cables; cross-linked polyethylene, polyvinyl chloride, neoprene rubber, hypalon or silicone rubber insulation and jacket materials.
- D. Max 400 pair No. 24 AWG copper telephone cables; polyvinyl chloride insulation and jacket materials.
- E. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in.
- F. Max 200 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
- G. Max 3/C No. 3/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
- H. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
- I. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.
- J. RG/U coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket.
- K. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hyjar jacket and insulation.
- L. Max 3/C No. 12 AWG (or smaller) MC (BX) copper cable with polyvinyl chloride insulation and jacket materials.
- M. Through Penetrating Product* - Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLV) category in the Fire Resistance Directory for names of manufacturers

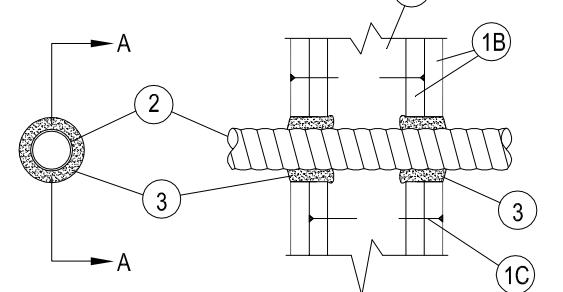
4. Packing Material - Min 1 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or ends of sleeve as required to accommodate the required thickness of fill material (Item 5).

5. Fill/Void or Cavity Material* - Caulk or Sealant - Applied to fill the through opening to a min thickness of 1 in. flush with the top surface of the floor or sleeve or both surfaces of wall or ends of sleeve. Caulk or sealant to be forced into interstices of cable group to max extent possible.
F Rating of firestop systems is dependent upon the through opening size, the thickness of the concrete, the sleeve type and percent cable fill, as tabulated below:

Max Through Opening Diam in.	Min Concrete Thkns in.	Sleeve Type	% Cable Fill	F Rating Hr
6	2 1/2	PVC	15-40	2
6	2 1/2	PVC	10-15	3
6	4 1/2	PVC	10-40	3
6	4 1/2	NONE	10-40	3
6	4 1/2	STEEL	10-40	3
8	2 1/2	NONE	15-40	1 1/2
8	4 1/2	NONE	15-33	2
8	2 1/2	NONE	10-15	3
8	2 1/2	STEEL	15-40	1 1/2
8	2 1/2	STEEL	10-15	3
8	4 1/2	STEEL	10-22	3

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.
*Bearing the UL Classification Marking

System No. WL-L-3015
(Formerly System No. 328)
F Ratings - 1 and 2 Hr (See Item 3)
T Ratings - 0, 1/2, and 2 Hr (See Item 2)
L Rating At Ambient - Less than 1 CFM/sq ft (See Item 3)
L Rating At 400F - Less Than 1 CFM/sq ft (See Item 3)



SECTION A-A

1. Wall Assembly - The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. Gypsum Board* - Nom 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum wallboard is 2 in.

C. Fasteners - When wood stud framing is employed, gypsum wallboard attached to studs with cement coated nails as specified in the Individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design. Diam of circular through opening cut through gypsum wallboard on each side of wall assembly to be min 1/4 in. to max 1/16 in. larger than diam of through penetrating product (Item 2) installed in through opening. Side edge of circular opening to be min 3/16 in. from nearest stud in wall cavity.

2. Through Penetrating Product* - Max four copper conductor No. 2 AWG (or smaller) aluminum or steel Armored Cable# or Metal-Clad Cable+. Max one armored cable or metal clad cable to be installed near center of circular opening in gypsum wallboard. Through penetrating product to be rigidly supported on both sides of wall assembly. When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max No. 2 AWG cable is used and 2 hr when max 12 AWG cable is used.

CABLE SYSTEMS INC

3. Fill/Void or Cavity Material* - Caulk - Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill opening in gypsum wallboard on each side of the wall assembly. A min 5/8 in. thickness of caulk is required for the 1 hr F Rating. A min 1-1/4 in. thickness of caulk is required for the 2 hr F Rating.

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

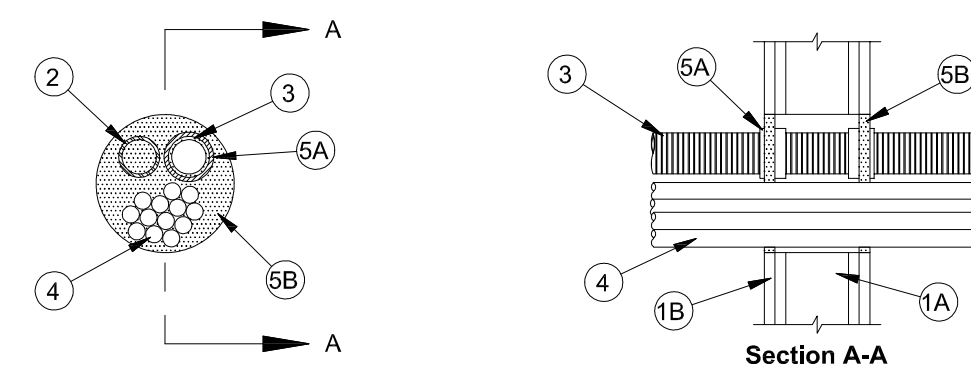
MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

System No. WL-L-8056

F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1/2 Hr



1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).

2. Metallic Penetrants - One or more metallic pipes, conduits or tubing installed concentrically or eccentrically within the opening. Annular space between metallic penetrants and periphery of opening to be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Annular space between metallic penetrants and nonmetallic penetrants or cables to be min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm). Metallic pipes, conduits or tubing to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of metallic pipes, conduits or tubing may be installed within the opening:

- A. Steel Pipe - Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
- B. Iron Pipe - Nom 2 in. (51 mm) diam (or smaller) cast or ductile iron pipe.
- C. Conduit - Nom 2 in. (51 mm) diam (or smaller) rigid steel conduits, electrical metallic tubing (EMT) or flexible steel or aluminum conduit.

3. Electrical Nonmetallic Tubing (ENT)* - Nom 2 in. (51 mm) diam (or smaller) ENT formed of PVC, installed in accordance with Article 331 of the National Electrical Code (NFPA No. 70). One or more ENT installed concentrically or eccentrically within the opening. Annular space between ENT and periphery of opening to be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Annular space between ENT and metallic penetrants or cables to be min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm). ENT to be rigidly supported on both sides of the wall assembly.

See Electrical Nonmetallic Tubing (FKHU) in UL Electrical Construction Materials Directory for names of manufacturers.

4. Cables - Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Cable bundle spaced min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm) from metallic and nonmetallic penetrants. Cable bundle spaced 0 in. (0 mm, point contact) to 2 in. (51 mm) from periphery of opening. Cable bundle to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:

- A. Max 100 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacket materials.
- B. Max 1/C No. 500 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
- C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
- D. Max 4/C No. 4/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
- E. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK cable.
- F. Max 1/0125 fiber optic (F.O.) cable with PVC insulation and jacket.
- G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jacket.
- H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket.
- I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC jacket and insulation.
- J. Max 4/C with ground No. 2/0 (or smaller) aluminum or copper conductor Metal-Clad+ or Armored-Clad+ cable with steel or aluminum jacketing.

AFC CABLE SYSTEMS INC

5. Firestop System - The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* - Wrap Strip - Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips, or nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. Strip layer wrapped around each individual ENT and secured with a single layer of foil tape. Wrap strip recessed within opening such that ends project a max 1/4 in. (6 mm) on each surface of the wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal RED Wrap Strip, SpecSeal BLU Wrap Strip or SpecSeal BLU2 Wrap Strip

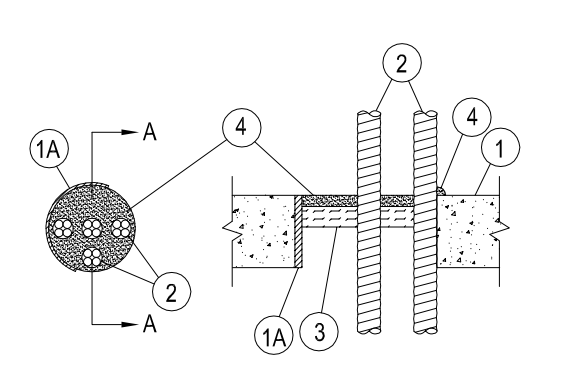
B. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied flush with both surfaces of wall. At point contact locations, apply a min 3/8 in. (10 mm) diam bead of fill material at the penetrant/gypsum board interface.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*Bearing the UL Classification Marking

*Bearing the UL Listing Mark

System No. C-AJ-3111
F Rating - 3 Hr
T Rating - 0 Hr



SECTION A-A

1. Floor or Wall Assembly - Min 4-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. When individual cable (Item 2) is installed in through opening, diam of opening to be 3/4 in.

to 1-1/2 in. larger than diam of cable. When more than one cable is installed in opening, diam of opening to be sufficient to allow separation between cables for installation of caulk fill material (Item 4). Max diam of opening is 6 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Sleeve (Optional) - Nom 6 in. diam (or smaller) Schedule 40 PVC pipe or Schedule 10 (or heavier) steel pipe cast into concrete floor or wall. Sleeve to be flush with or project max 1-1/2 in. from top of surface of floor or both surfaces of wall.

2. Through Penetrating Products* - Max four copper conductor No. 2/0 AWG (or smaller) aluminum or steel Armored Cable# or Metal-Clad Cable#. Aggregate cross-sectional area of cables to be 15 to 30 percent of the cross-sectional area of the opening. Min annular space between cable and edge of through opening is zero in. (point contact). Through penetrating products to be rigidly supported on both sides of floor or wall assembly.

CONDUCTORS CM S A DE CV

3. Packing Material - Polyethylene backer rod or nom 1 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material (Item 4).

4. Fill/Void or Cavity Material* - Caulk - Applied to fill the annular space around the through penetrating product. When an individual cable is installed in a max 3 in. diam through opening, a min 1/2 in. depth of caulk fill material is required. When more than one cable is installed in through opening or through opening is larger than 3 in. diam, a min 1 in. depth of caulk fill material is required. Caulk fill material to be installed flush with top surface of floor. In walls, caulk fill material to be installed flush with wall surface on both sides of wall assembly.

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Listing Mark

MINNESOTA MINING & MFG CO - CP 25WB+
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*Bearing the UL Classification Marking

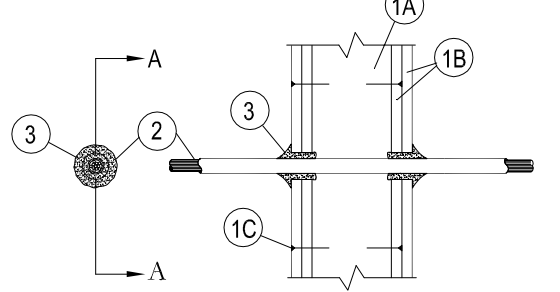
MINNESOTA MINING & MFG CO - CP 25WB+
*Bearing the UL Classification Marking

Penetrating Material	Type	Assembly Type	Fire Rating	3M Assembly	UL Assembly
2" - 4" Cast Iron	Sanitary, Waste Vent and Drain Piping	Gypsum Stud Wall	1 Hr	WL-1001	U465
2" - 4" Cast Iron	Sanitary, Waste Vent and Drain Piping	Concrete and Steel Deck Floor/Ceiling	2 Hr	CAJ-1175	D907
1/2" - 2" Copper	Water	Gypsum Stud Wall	1 Hr	WL-1001	U465
4" Copper	Water	Concrete and Steel Deck Floor/Ceiling	2 Hr	CAJ-1175	D907
4" PVC	Heating/Water	Gypsum Stud Wall	1 Hr	WL-2002	U465
5" PVC	Heating/Water	Concrete and Steel Deck Floor/Ceiling	2 Hr	FA-2002	D907
1 1/2" - 2 1/2" Schedule 10 40 Steel	Sprinkler Piping	Gypsum Stud Wall	1 Hr 2 Hr	WL-1001	U465 D411
4" Schedule 40 Steel	Gas Piping	Gypsum Stud Wall	2 Hr	WL-1001	U411
4" Schedule 40 Steel	Gas Piping	Concrete and Steel Deck Floor/Ceiling	2 Hr	CAJ-1175	D907
Individual Cable	Telephone/Romex PVC Insulated	Gypsum Stud Wall	1 Hr 2 Hr	WL-3001	U465 D411
Bundle of Cables - 4" Max.	Various Cables - PVC Insulated	Gypsum Stud Wall	1 Hr 2 Hr	WL-3030	U465 D411
Bundle of Cables - 4" Max.	Various Cables - PVC Insulated	Concrete and Steel Deck Floor/Ceiling	2 Hr	CAJ-3030	D907
Bx. Cable	Armored Cable (Bx.)	Gypsum Stud Wall	1 Hr 2 Hr	WL-3015	U465 D411
Bx. Cable	Armored Cable (Bx.) Single and Multiple	Concrete and Steel Deck Floor/Ceiling	2 Hr	CAJ-3111	D907
Electrical Outlet Box	Metal	Gypsum Stud Wall	1 Hr	CLIV PUTTY	U465

Notes: *Back to Back Electrical Boxes Less Than 24" Apart Penetrating Through UL Fire Rated Walls Shall Receive 3M Fire Barrier Moldable Putty +* Or Equal Per Manufacturers Installation Requirements to Ensure Fire Rated Seal.

Requirements to Ensure Fire Rated Seal.

System No. WL-L-3001
(Formerly System No. 149)
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Item 2)
L Rating At Ambient - 15 CFM/sq ft (See Item 3)
L Rating At 400 F - Less than 1 CFM/sq ft (See Item 3)



SECTION A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. Gypsum Board* - Nom 1/2 or 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and sheet orientation shall be as specified in the individual Wall or Partition Design. Diam of circular through opening to be 3/8 in. to 5/8 in. larger than outside diam of cable or cable bundle.

C. Fasteners - When wood stud framing is employed gypsum wallboard layers attached to studs with cement coated nails as specified in the Individual Wall or Partition Design. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Cables - Individual cable or max 1 in. diam cable bundle installed in through opening with an annular space of min 0 in. (point contact) to max 3/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

A. Max 150 pair No. 24 AWG copper conductor telephone cable with polyvinyl chloride (PVC) insulation and jacket materials. When max 25 pair telephone cable is used, T Rating is 2 hr. When 50 to 150 pair telephone cable is used in 1 hr fire rated wall, T Rating is 3/4 hr.

B. Max No. 10 AWG multiple copper conductor Type NM (Romex*) nonmetallic sheathed cable with PVC insulation and jacket materials.

When Type NM cable is used, max T Rating is 1-1/2 hr.

C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in.

When fiber optic cable is used, max T Rating is 2 hr.

D. Max 12 AWG multi conductor (max seven conductors) power/control cable with cross-linked polyethylene (XLPE) insulation and XLPE or PVC jacket materials.

When multi conductor power/control cable is used, max T Rating is 2 hr.

E. Max four conductor with ground No. 2 AWG (or smaller) aluminum SER cables with polyvinyl chloride insulation and jacket materials.

3M COMPANY - MP+ Sixt putty, CP 25WB+ caulk, FB-3000 WT sealant or Cable Wrap putty (Note: L Ratings apply only when CP 25WB+ caulk or FB-3000 WT sealant is used.)
*Bearing the UL Classification Marking

3M COMPANY - MP+ Sixt putty, CP 25WB+ caulk, FB-3000 WT sealant or Cable Wrap putty (Note: L Ratings apply only when CP 25WB+ caulk or FB-3000 WT sealant is used.)
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*Bearing the UL Classification Marking

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