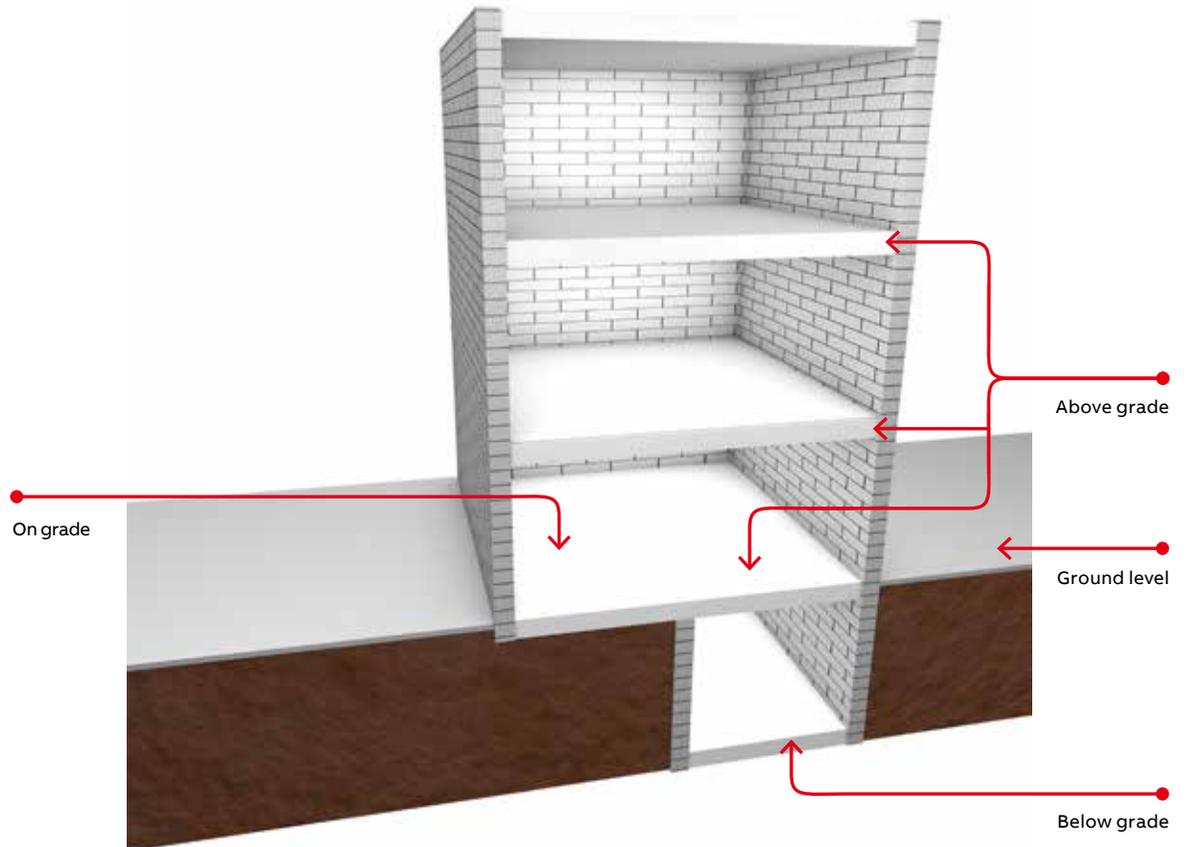


Floor boxes

The aesthetic and technical needs of today's buildings are as diverse as the equipment that fills them. Small wonder, then, that floor boxes can continue to solve the needs of today and the future as they did in the early 1900s when they were invented. They are still a contemporary, capable and cost-effective wire management system. Steel City, a pioneer in both the design and applications of floor boxes since 1904, invites you to discover or rediscover the possibilities.

Visit www.tnb.com/floorboxselect to use our online floor box selection tool to quickly and easily identify an appropriate in-floor solution for your needs.



Concrete application – On grade floors

Recessed service

- Material: Cast iron
- Covers: MopTite 664-CST Series



664-CI (2-gang) - See page C13

- Material: Stamped steel/cast iron
- Covers: MopTite 665-CST Series



665-CI (2-gang) - See page C16

Concrete application – On grade floors

Flush service

- Material: Cast iron
- Covers: MopTite P60 Series



600 Series - See page C19

- Material: Cast iron
- Covers: MopTite P90 Series



78 Series - See page C23

- Material: Cast iron
- Covers: MopTite P64 Series



640 Series (1-, 2-, 3- & 4-Gang) - See page C27

- Material: Cast iron
- Covers: MopTite P64 Series



840 Series (1-, 2- & 3-Gang) - See page C27

Concrete application – On or above grade floors

Flush service

- Material: Nonmetallic
- Covers: MopTite P60 & P68 Series



68-P Series - See page C40

- Material: Nonmetallic
- Covers: 68-HP Series



68-HP Series - See page C43

- Material: Nonmetallic
- Covers: 640HP Series activations with MopTite P64 Series covers



640P Series (1-, 2- & 3-Gang) - See page C47

Concrete application – Above grade floors

Recessed service

- Material: Stamped steel
- Covers: P62 and P60 Series



663-SC (2-gang) - See page C50

- Material: Stamped steel
- Covers: MopTite 664-CST SW Series



664-SC/664-S (2-gang) - See page C52

- Material: Stamped steel
- Covers: MopTite 665-CST-SW Series



665-SC/665-AV2 (4-gang) - See page C55

- Material: Stamped steel
- Covers: MopTite 667-CST-SW Series



667-SC (8-gang) - See page C59

- Material: Stamped steel
- Covers: MopTite 668-CST



668-S (4-gang) - See page C61

Concrete application – Above grade floors

Flush service

- Material: Stamped steel
- Covers: MopTite P60 Series



68 Series - See page C64

- Material: Stamped steel
- Covers: 640P Series activations with MopTite P64 Series covers



740 Series (1-, 2- & 3-Gang) - See page C67

- Material: Stamped steel
- Covers: MopTite P90 Series



88 Series - See page C71

Concrete application – On or above grade floors

Poke-through and furniture feed



Flush service - See page C73



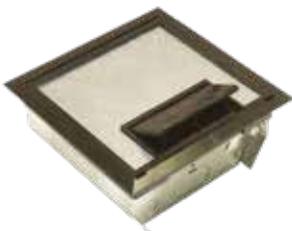
Recessed service - See page C81



Furniture feed - See page C84

Access floor module application

- Material: Stamped steel
- Covers: MopTite covers, assembled



Access floor modules - See page C88

Floor box cover selection guide

Cat. No.	Receptacles	Service capabilities		Minimum depth of pour	Adjustability
		Multiple service capabilities	Floor box body material		
600-SC	Single, Duplex, GFCI	-	-	3"	-
601-SC	Single, Duplex, GFCI	-	-	3"	-
602-SC	Single, Duplex, GFCI	-	-	2 ¹ / ₂ "	-
603-SC	Single, Duplex, GFCI	-	-	2 ¹ / ₂ "	-
604-SC	Single, Duplex	-	Cast iron	Wood floor	-
61-W	Duplex, GFCI	-	Stamped steel	Wood floor	1 ³ / ₁₆ " adjustment after installation
62-W	GFCI	2 duplexes, 2 com./data or 1 duplex with com./data	Stamped steel	Wood floor	1 ³ / ₁₆ " adjustment after installation
641	Single, Duplex, GFCI	1-gang; 1 service per gang	Cast iron	4"	Fully
641P	Single, Duplex, GFCI	1-gang; 1 service per gang	Cast iron, Nonmetallic	-	Fully
642	Single, Duplex, GFCI	2-gang; 1 service per gang	Cast iron	4"	Fully
642P	Single, Duplex, GFCI	2-gang; 1 service per gang	Cast iron, Nonmetallic	-	Fully
643	Single, Duplex, GFCI	3-gang; 1 service per gang	Cast iron	4"	Fully
643P	Single, Duplex, GFCI	3-gang; 1 service per gang	Cast iron, Nonmetallic	-	Fully
663-SC	Single, Duplex	Two duplexes, two communications/data or one duplex with com./data	Stamped steel	4"	Fully
664-CI	Duplex, GFCI	Two duplexes, two communications/data or one duplex with com./data	Cast iron	4"	Fully
664-S	Single, Duplex	Two duplexes, two communications/data or one duplex with com./data	Stamped steel	3"	Fully
664-SC	Duplex, GFCI	Two duplexes, two communications/data or one duplex with com./data	Stamped steel	4"	Fully
665	Duplex, GFCI	Up to 4 devices or any combination of pwr. com./data	Stamped steel	3 ¹ / ₂ "	Fully
665-CI	Duplex, GFCI	Up to 4 devices or any combination of power data	Cast iron	4"	Fully
667-SC	Duplex, GFCI	Up to 8 devices or any combination of pwr. com./data	Stamped steel	4 ¹ / ₂ "	Fully
668-S	Duplex, GFCI	Up to 4 devices or any combination of power data	Stamped steel	2 ¹ / ₂ "	Fully
671-SC	Single	•	-	3", 4 ¹ / ₂ "	Semi
672	Single	•	-	3", 4 ¹ / ₂ "	Semi
68-D	Single, Duplex, GFCI	-	Cast iron	3"	-
68-P	Single, Duplex	1 duplex, up to 8 data jacks	Nonmetallic	-	Fully
68-S	Single, Duplex, GFCI	-	Cast iron	2 ¹ / ₂ "	-
71-W	Duplex, GFCI	-	Stamped steel	Wood floor	-
78-S	Single	•	-	2 ¹ / ₂ "	Fully
78-SC	Single	•	-	2 ¹ / ₂ "	Fully
841-SC	Single, Duplex, GFCI	1-gang; 1 service per gang	Cast iron	2"	Semi
842-SC	Single, Duplex, GFCI	2-gang; 1 service per gang	Cast iron	2"	Semi
843-SC	Single, Duplex, GFCI	3-gang; 1 service per gang	Cast iron	2"	Semi
88-S	Single	-	Cast iron	2 ¹ / ₂ "	Fully
GAB-8-S	Single, Duplex, GFCI	•	Stamped steel	6"	Semi

Floor box cover selection guide

Floor Box Cat. No.	Description	Cover plates	Carpet activations			Tile activation		Non metallic
			Brass	Aluminum	Nonmetallic	Brass	Aluminum	
663-SC	Concealed service – Steel	P60 Series	P60-CP	P60-CPL	P62-CP	P62-TAR	SP-P62-TAR-A	N/A
664-SC	Concealed service – Steel	664-CST-M Series	N/A	N/A	664-CST-W Series	N/A	N/A	N/A
664-S	Shallow concealed service – Steel	664-CST-M Series	N/A	N/A	664-CST-W Series	N/A	N/A	N/A
664-CI	Concealed service – Cast Iron	664-CST-M Series	N/A	N/A	664-CST-W Series	N/A	N/A	N/A
68-S	Flush service – Steel	P60 Series	P60-CP P60-CACP	P60-CPAL P60-CACPAL	P60-LCP	*	**	—
68-D	Flush service – Steel	P60 Series	P60-CP P60-CACP	P60-CPAL P60-CACPAL	P60-LCP	*	**	—
68-P	Flush service – Nonmetallic	P60 Series	P60-CP P60-CACP	P60-CPAL P60-CACPAL	P68-SRC Color P68-DRC-Color P68-ECC-Color	68-PAR-W/ 600-4-FL	68-PAR-W/ 600-4-FL-AL	—
600-SC Series	Flush service – Cast Iron	P60 Series	P60-CP P60-CACP	C60-CPAL P60-CACPAL	N/A	*	**	—
601-SC Series	Flush service – Cast Iron	P60 Series	P60-CP P60-CACP	C60-CPAL P60-CACPAL	N/A	*	**	—
602-SC Series	Flush service – Cast Iron	P60 Series	P60-CP P60-CACP	C60-CPAL P60-CACPAL	N/A	*	**	—
603-SC Series	Flush service – Cast Iron	P60 Series	P60-CP P60-CACP	C60-CPAL P60-CACPAL	N/A	*	**	—
604-SC Series	Flush service – Cast Iron	P60 Series	P60-CP P60-CACP	C60-CPAL P60-CACPAL	N/A	*	**	—
641	Flush service – Cast Iron	P64 Series	P64-CP	P64-CPAL	P64-CP Series P-64-LCP	*	**	N/A
641P	Flush service – Nonmetallic	P64 Series P64P Series	641P-CACB	641P-CACA	641P-CAC Series	641P-TACB	641P-TACA	641P-TAC- Series
642	Flush service – Cast Iron	P64 Series	P64-2GCP	P64-2GCPAL	P64P-2GCP Series P64-2LCP	*	**	N/A
642P	Flush service – Nonmetallic	P64 Series P64P Series	642P-CACB	642P-CACA	642P-CAC Series	642P-TACB	642P-TACA	642P-TAC Series
643	Flush service – Cast Iron	P64 Series	P64-3GCP	P64-3GCPAL	P64P-3GCP Series P64-3LCP	*	**	N/A
643P	Flush service – Nonmetallic	P64 Series P64P Series	643P-CACB	643P-CACA	643P-CAC Series	633P-TACB	643P-TACA	643P-TAC Series
841-SC	Shallow flush service – Cast Iron	P64 Series	P64-CP	P64CPAL	P64P-CP Series P64-LCP	*	**	N/A
842-SC	Shallow flush service – Cast Iron	P64 Series	P64-2GCP	P64-2GCPAL	P64P-2GCP Series P64-2LCP	*	**	—
843-SC	Shallow flush service – Cast Iron	P64 Series	P64-3GCP	P64-3GCPA	P64-3GCP Series P64-3LCP	*	**	N/A
78-SC	Flush service – Cast Iron	P90 Series	P90-CP	P90-CPAL	N/A	*	**	N/A
78S	Flush service – Cast Iron	P90 Series	P90-CP	P90-CPAL	N/A	*	**	N/A
671	Flush service – Cast Iron	P67 Series	P90-CP	P90-CPAL	N/A	—	**	N/A
672	Flush service – Cast Iron	P67 Series	P90-CP	P90-CPAL	N/A	*	**	N/A
88S	Flush service – Steel	P90 Series	P90-CP	P90-CPAL	N/A	*	**	N/A
665-SC	Concealed service	665-CST Series	N/A	N/A	665-CST Series	—	—	—
667	Concealed service	667-M CST Series	N/A	N/A	667-CST-W Series	—	—	—
61W	Flush service – Steel	P64 Series	P64-CP	P64-CPAL	P64-CP Series	N/A	N/A	N/A
62W	Flush service – Steel	P64 Series	P64-2GCP	P64-2GCPAL	P64-2GCP Series	N/A	N/A	N/A

* Supplied standard with box.
 ** Supplied standard with -AL suffix box.
 N/A Not Available.

Floor box cover selection guide

Cover Series	Cover Cat. No.	Description	Standard Finish
P60 4" Dia.	P-60-1/2	½" N.P.S. plug	Brushed Brass
	P-60-1/2-AL	½" N.P.S. plug	Brushed Aluminum
	P-60-3/4	¾" N.P.S. plug	Brushed Brass
	P-60-3/4-AL	¾" N.P.S. plug	Brushed Aluminum
	P-60-1	1" N.P.S. plug	Brushed Brass
	P-60-1-AL	1" N.P.S. plug	Brushed Aluminum
	P-60-1 1/4	1¼" N.P.S. plug	Brushed Brass
	P-60-1 1/4-AL	1¼" N.P.S. plug	Brushed Aluminum
	P-60-2	2" dia. plug	Brushed Brass
	P-60-2-AL	2" dia. plug	Brushed Aluminum
	P-60-2 5/8	2⅝" dia. plug	Brushed Brass
	P-60-2 5/8-AL	2⅝" dia. plug	Brushed Aluminum
	P-60-1/2-2	½" N.P.S. & 2" dia. plugs	Brushed Brass
	P-60-3/4-2	¾" N.P.S. & 2" dia. plugs	Brushed Brass
	P-60-3/4-2-AL	¾" N.P.S. & 2" dia. plugs	Brushed Aluminum
	P-60-DU	Two 1⅞" dia. plugs	Brushed Brass
	P-60-DU-AL	Two 1⅞" dia. plugs	Brushed Aluminum
	P-60-DS	Two hinged lift lids	Brushed Brass
	P-60-DS-AL	Two hinged lift lids	Brushed Aluminum
	P-60-DR	Single hinged lift lid	Brushed Brass
	Single hinged lift lid	Brushed Aluminum	
	P-60-GFCI	GFCI hinged lift lid	Brushed Brass
P60-CACP One-Piece 5½" Dia.	P-60-CACP	One-piece carpet plate with two hinged lift lids for duplex	Brushed Brass
	P-60-CACP-AL	One-piece carpet plate with two hinged lift lids for duplex	Brushed Aluminum
	P-60-CACP-GFCI	One-piece carpet plate with two GFCI hinged lift lids	Brushed Brass
	P-60-3/4-2-CACP	One-piece carpet plate with 3½" N.P.S. & 2" Dia. plug	Brushed Brass
	P-60-3/4-2-CACP-AL	One-piece carpet plate with ¾" & 2" N.P.S. plugs	—
P67 3½" Dia.	P-67-1/2	½" N.P.S. plug	Brushed Brass
	P-67-3/4	¾" N.P.S. plug	Brushed Brass
	P-67-3/4-AL	¾" N.P.S. plug	Brushed Aluminum
	P-67-1	1" N.P.S. plug	Brushed Brass
	P-67-1AL	1" N.P.S. plug	Brushed Aluminum
	P-67-1 1/4	1¼" N.P.S. plug	Brushed Brass
	P-67-2	2" dia. plug	Brushed Brass
	P-67-2AL	2" dia. plug	Brushed Aluminum
	P-67-1/2-2	½" N.P.S. & 2" dia. plugs	Brushed Brass
	P-67-3/4-2	¾" N.P.S. & dia. plugs	Brushed Brass

Cover Series	Cover Cat. No.	Description	Standard Finish	
P64 3" x 4½" Rectangular	P-64-1/2	½" N.P.S. plug	Polished Brass	
	P-64-3/4	¾" N.P.S. plug	Polished Brass	
	P-64-3/4AL	¾" N.P.S. plug	Brushed Aluminum	
	P-64-1	1" N.P.S. plug	Polished Brass	
	P-64-1AL	1" N.P.S. plug	Brushed Aluminum	
	P-64-1 1/4	1¼" N.P.S. plug	Polished Brass	
	P-64-1 1/4AL	1¼" N.P.S. plug	Brushed Aluminum	
	P-64-2	2" N.P.S. plug	Polished Brass	
	P-64-2-AL	2" N.P.S. plug	Brushed Aluminum	
	P-64-1/2-2	½" & 2" N.P.S. plug	Polished Brass	
	P-64-1/2-2AL	½" & 2" N.P.S. plug	Brushed Aluminum	
	P-64-3/4-2	¾" & 2" N.P.S. plug	Polished Brass	
	P-64-3/4-2AL	¾" & 2" N.P.S. plug	Brushed Aluminum	
	P-64-2-5/8	2⅝" N.P.S. plug	Polished Brass	
	P-64-2-5/8AL	2⅝" N.P.S. plug	Brushed Aluminum	
	P-64-DU	Two 1⅞" dia. plugs	Polished Brass	
	P-64-DUAL	Two 1⅞" dia. plugs	Brushed Aluminum	
	P-64-D8	Two Hinged Lift Lids	Polished Brass	
		P-64-GFCI	GFCI Hinged Lift Lid	Polished Brass
	P64P	P-64P-BP	Blank Plate	Nonmetallic
P-64P-URC		Universal Cover	Nonmetallic	
P-90-3/4AL		¾" N.P.S. plug	Brushed Aluminum	
P-90-1AL		1" N.P.S. plug	Brushed Aluminum	
P-90-1 1/4AL		1¼" N.P.S. plug	Brushed Aluminum	
P68 6" Dia.	P-90-2AL	2" dia. plug	Brushed Aluminum	
	P-90-1/2-2	½" N.P.S. & 2" dia. plugs	Polished Brass	
	P-90-3/4-2	¾" N.P.S. & 2" dia. plugs	Polished Brass	
	P-90-3/4-2AL	¾" N.P.S. & 2" dia. plugs	Brushed Aluminum	
	P-68-SRC-GRY	Carpet & cover plate for single receptacle	Nonmetallic Grey	
	P-68-SRC-BRN	Carpet & cover plate for single receptacle	Nonmetallic Brown	
	P-68-SRC-BGE	Carpet & cover plate for single receptacle	Nonmetallic Beige	
	P-68-FSC-GRY	Carpet & cover plate with 1" N.P.S. plug	Nonmetallic Grey	
	P-68-FSC-BRN	Carpet & cover plate with 1" N.P.S. plug	Nonmetallic Brown	
	P-68-FSC-BGE	Carpet & cover plate with 1" N.P.S. plug	Nonmetallic Beige	
P68 6" Dia.	P-68-DRC-GRY	Carpet & cover plate for duplex receptacle	Nonmetallic Grey	
	P-68-DRC-BRN	Carpet & cover plate for duplex receptacle	Nonmetallic Brown	
	P-68-DRC-BGE	Carpet & cover plate for duplex receptacle	Nonmetallic Beige	

Standard specification

Flush floor boxes

Cast iron formed steel

Considerations when writing specifications:

Floor boxes are manufactured in various sizes, configurations and materials. The specifier should determine the most suitable product for his application. Refer to the ABB floor box catalog and select the appropriate paragraphs listed below. Plans should supply wiring capacity, conduit sizes, adjustability and floor finish. Construction Specifications Institute (CSI) references sections: 16132 Floor Boxes; 16141 Wiring Devices; Part 2-206 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2-201 G Floor Boxes. Section 16132 Floor Boxes is preferable.

Part 2: Products

2.01 Acceptable manufacturers – Floor boxes

A. Shall be as manufactured by ABB, Memphis, TN

2.02 Materials – Floor boxes

2.02.1

A. Shall be cast iron, painted inside and out with weatherproof paint intended for use on metal as indicated on the plans.

2.02.1

B. Shall be formed steel with a zinc plating at least .0005 in. thick on the outside and .00015 in. thick on the inside as indicated on the plans.

2.02.2

A. Construction shall be as required by UL 514A and CSA C22.2 No. 18.1.

2.02.2

B. Carpet or tile frame shall be (brass, aluminum, polycarbonate, nylon).

2.02.2

C. Cover assembly shall protect against the ingress of water or foreign material with a gasket and shall be UL Listed and CSA as moptight.

2.03 General design – Floor boxes

A. Shall deliver electric power from receptacles installed at the surface of the floor or from service fittings (Reference 16141 as shown on the plans).

B. 640/840 Series shall deliver power and telephone/data cable without interference from electric power delivery (see Section 16741).

C. Cubic inch capacity shall be as shown on the plans.

D. Boxes shall accept conduit sizes as required on the plans.

E. Shall be listed by Underwriters Laboratories.

Part 3: Execution

3.01 General

A. Locate position for floor boxes and runs of conduit as shown on the plans.

3.02 Installation

A. Position floor boxes and conduit runs.

B. After concrete pour, pull wires and install devices according to manufacturers recommendations.

C. Activate in accordance with the National Electrical Code or the Canadian Electrical Code.

D. Coordinate with floor covering contractor to complete installation.

Standard specification

Concealed service

Service floor outlet multiple service, power and communications

Considerations when writing specifications:

The 664 Concealed Service Floor Box provides both electric power and telephone (data) services from the same device for economy of space and cost, as well as affording a flush delivery (no above floor service fitting). For these reasons, your specification may reference this product in three sections: Floor Boxes, Wiring Devices and Telephone Raceway Systems. Construction Specifications Institute (CSI) references them in: 16132 Floor Boxes; 16141 Wiring Devices; Part 2 – 2.06 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2 – 2.01 G Floor Boxes. Section 16132 Floor Boxes is preferable. For clarification include a reference in 16141, Part 2, 2.06 Floor Mounted Service Fittings as follows: Surface type service fittings are not acceptable.

Part 2: Products

2.01 Acceptable manufacturers – Floor boxes, multiple service

A. Shall be series 664 concealed service floor box as manufactured by ABB.

2.02 Materials – Floor boxes, multiple service

A. Shall be electrogalvanized, 14 gauge sheet steel. (Alternate A shall be cast iron).

B. Construction shall be as required by UL 514A and CSA C22.2 No. 18.1.

C. Carpet frame shall be nylon UL Recognized Component QMFZ2.

D. Hinged outer cover shall be reinforced with a $\frac{5}{32}$ " steel plate.

2.03 General design – Floor boxes, multiple service

A. Shall deliver electric power from one or two duplex receptacles installed below the surface of the floor.

B. Shall deliver telephone or data cable without interference from the electric power delivery.

C. Shall protect delivery of both services by a hinged cover with a retractable opening and foam plastomer dust seal.

D. Hinged cover shall accept carpet or tile to match floor covering and be 180 degrees reversible.

E. Shall have 90 cubic inch total capacity with 24 cubic inch power chambers.

F. Shall accept conduit sizes up to $\frac{1}{4}$ inches.

G. Shall afford 18 square inches of access with cover open.

H. Box shall be listed by Underwriters Laboratories.

I. When hinged cover is closed and no services in place, device shall have no obstructions above surface of floor.

Part 3: Execution

3.01 General

A. Locate position for floor boxes and runs of conduit as shown on the plans.

3.02 Installation

A. Position floor boxes and conduit runs.

B. After concrete pour, pull wires and install devices according to manufacturers recommendations.

C. Activate in accordance with the National Electrical Code or the Canadian Electrical Code.

D. Coordinate with floor covering contractor to complete installation.

Standard specification

Above-floor service

Service floor outlet multiple service, power and communications

Considerations when writing specifications:

The 664 Concealed Service Floor Box provides both electric power and telephone (data) services from the same device for economy of space and cost, as well as affording a flush delivery (no above floor service fitting). For these reasons, your specification may reference this product in three sections: Floor Boxes, Wiring Devices and Telephone Raceway Systems. Construction Specifications Institute (CSI) references them in: 16132 Floor Boxes; 16141 Wiring Devices; Part 2 — 2.06 Floor Mounted Service Fittings; and 16741 Telephone Raceway Systems, Part 2 — 2.01 G Floor Boxes. Section 16132 Floor Boxes is preferable. For clarification include a reference in 16141, Part 2, 2.06 Floor Mounted Service Fittings as follows: Surface type service fittings are not acceptable.

Part 2: Products

2.01 Acceptable manufacturers – Floor boxes, multiple service

A. Shall be series 664 concealed service floor box as manufactured by ABB.

2.02 Materials – Floor boxes, multiple service

- A. Shall be electrogalvanized, 14 gauge sheet steel. (Alternate A shall be cast iron).
- B. Construction shall be as required by UL 514A and CSA C22.2 No. 18.1.
- C. Carpet frame shall be nylon UL Recognized Component QMFZ2.
- D. Hinged outer cover shall be reinforced with a $\frac{5}{32}$ " steel plate.

2.03 General design – Floor boxes, multiple service

- A. Shall deliver electric power from one or two duplex receptacles installed below the surface of the floor.
- B. Shall deliver telephone or data cable without interference from the electric power delivery.
- C. Shall protect delivery of both services by a hinged cover with a retractable opening and foam plastomer dust seal.
- D. Hinged cover shall accept carpet or tile to match floor covering and be 180 degrees reversible.
- E. Shall have 90 cubic inch total capacity with 24 cubic inch power chambers.
- F. Shall accept conduit sizes up to 1 $\frac{1}{4}$ inches.
- G. Shall afford 18 square inches of access with cover open.
- H. Box shall be listed by Underwriters Laboratories.
- I. When hinged cover is closed and no services in place, device shall have no obstructions above surface of floor.

Part 3: Execution

3.01 General

A. Locate position for floor boxes and runs of conduit as shown on the plans.

3.02 Installation

- A. Position floor boxes and conduit runs.
- B. After concrete pour, pull wires and install devices according to manufacturers recommendations.
- C. Activate in accordance with the National Electrical Code or the Canadian Electrical Code.
- D. Coordinate with floor covering contractor to complete installation.