

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B \diamond , C \diamond , D
Class I, Zone 1 and 2, Groups IIA, IIB \diamond +H \diamond ₂ \diamond
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 4, 7B \diamond C \diamond D, 9EFG

Application

- Explosionproof junction boxes are used where hazardous materials are handled or stored. These enclosures may be used for:
 - Terminals
 - Splicing wires
 - Pull boxes
 - Bus boxes

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet for horizontal or vertical mounting.
- Flexible hinge mounting either left or right side is standard on all boxes 12 x 12 x 06 and larger.
- External flange maximizes internal space.
- Wall thickness suitable for minimum of five full threads.
- Provision for mounting pan.
- Wide range of drilled and tapped outlets.
- Ground lug package and installation instructions for termination of ground wires enclosed.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: sand cast copperfree (4/10 of 1% max.) aluminum
- Cover bolts: stainless steel
- O-ring: neoprene
- Hinges: stainless steel
- Mounting pan: galvanized steel

Standard Finishes

- Bodies and covers: shot blast finish standard

Options

- Custom drilling and tapping.
- Set of 4 standoffs 12.7 mm (0.50") high. For factory-installed option add suffix **-AB**.
- Breather, NEMA 4X (includes outlets and installation). For factory-installed option add suffix **-BR**, for field-installed option order catalog number **BRTB4X**.
- Drain, NEMA 4X (includes outlets and installation). For factory-installed option add suffix **-DN** for field-installed option order catalog number **ECD50B4X**.
- Desiccate package. For factory-installed option add suffix **-DP1**, for field-installed option order catalog number **AWG13/1CT**.
- External grounding stud 3/8"-16. For fac



tory-installed option add suffix **-EGS**.

- Gray epoxy powder coat (outside). For factory-installed option add suffix **-G1**.
- Gray epoxy powder coat available to provide NEMA 4X rating (inside and outside). For factory-installed option add suffix **-G2**.
- Internal Ground Stud, #14 - #2. For factory-installed option add suffix **-GNDKIT**.
- Hinges: stainless steel hinge available for boxes up to 11 x 30 x 03. For factory-installed option add suffix **-H**.
- Hinge Kit, 2 light duty SS hinges. For field-installed option order catalog number **AH0F12SS**.
- Hinge Kit, 2 heavy duty SS hinges. For field-installed option order catalog number **AH0F22SS**.
- Hinge Kit, 3 heavy duty SS hinges. For field-installed option order catalog number **AH0F23SS**.
- Terminal blocks 600 Volt, 30 Amp Indicate number of points: example: 5 points = 5K. For factory-installed option add suffix **-K**.
- Plastic nameplate, 50.8 x 101.6 mm (2.00 x 4.00"), 3.3 mm (13") black letters on white surface, 3 lines max, specify legend. For factory-installed option add suffix **-NP**.
- SS captive Quad-Lead bolts. For factory-installed option add suffix **-Q**.
- Mounting pan. For factory-installed option add suffix **-Z**.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1203
- cULus Listed: E85310
- CSA Standard: C22.2 No. 25, C22.2 No.30
- CSA Certified: 042129

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.

AJBEW Cast Junction Box Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC/CEC:

Class I, Division 1 and 2, Groups B \diamond , C \diamond , D
 Class I, Zone 1 and 2, Groups IIA, IIB \diamond +H₂ \diamond
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 4, 7B \diamond C \diamond D, 9EFG

Mounting Pans

Mounting Pan Catalog Number	Junction Box Catalog Number	Overall Dimensions in Millimeters (Inches)	
		W	H
AZ-464	AJBEW040604	76.2 (3.00)	127.0 (5.00)
AZ-664	AJBEW060604	120.7 (4.75)	120.7 (4.75)
AZ-684	AJBEW060806	114.3 (4.50)	165.1 (6.50)
AZ-593	AJBEW050903	101.6 (4.00)	215.9 (8.50)
AZ-684	AJBEW060804	114.3 (4.50)	165.1 (6.50)
AZ-6104	AJBEW061004	127.0 (5.00)	266.7 (10.50)
AZ-6124	AJBEW061204	139.7 (5.50)	279.4 (11.00)
AZ-6164	AJBEW061604	133.4 (5.25)	381.0 (15.00)
AZ-7116	AJBEW071106	165.1 (6.50)	254.0 (10.00)
AZ-886	AJBEW080806	165.1 (6.50)	165.1 (6.50)
AZ-8106	AJBEW081006	165.1 (6.50)	215.9 (8.50)
AZ-8137	AJBEW081307	152.4 (6.00)	279.4 (11.00)
AZ-9115	AJBEW091105	209.6 (8.25)	254.0 (10.00)
AZ-9154	AJBEW091504	206.5 (8.13)	374.7 (14.75)
AZ-10104/6	AJBEW101006	190.5 (7.50)	190.5 (7.50)
AZ-10146/8	AJBEW101408	228.6 (9.00)	330.2 (13.00)
AZ-10146/8	AJBEW101408	228.6 (9.00)	330.2 (13.00)
AZ-11205	AJBEW112005	266.7 (10.50)	482.6 (19.00)
AZ-11246	AJBEW112406	251.0 (9.88)	590.6 (23.25)
AZ-11306	AJBEW113006	251.0 (9.88)	723.9 (28.50)
AZ-12126/8	AJBEW121206	266.7 (10.50)	266.7 (10.50)
AZ-12126/8	AJBEW121208	266.7 (10.50)	266.7 (10.50)
AZ-12186/8	AJBEW121806	266.7 (10.50)	419.1 (16.50)
AZ-12186/8	AJBEW121808	266.7 (10.50)	419.1 (16.50)
AZ-12248/10	AJBEW122408	273.1 (10.75)	574.8 (22.63)
AZ-12368	AJBEW123608	254.0 (10.00)	863.6 (34.00)
AZ-13386	AJBEW133806	292.1 (11.50)	924.1 (36.38)

Mounting Pan Catalog Number	Junction Box Catalog Number	Overall Dimensions in Millimeters (Inches)	
		W	H
AZ-14146/8	AJBEW141406	311.2 (12.25)	311.2 (12.25)
AZ-14146/8	AJBEW141408	311.2 (12.25)	311.2 (12.25)
AZ-14248	AJBEW142408	355.6 (14.00)	568.5 (22.38)
AZ-15377	AJBEW153707	368.3 (14.50)	901.7 (35.50)
AZ-16166/8	AJBEW161606	381.0 (15.00)	381.0 (15.00)
AZ-16166/8	AJBEW161608	381.0 (15.00)	381.0 (15.00)
AZ-161812	AJBEW161812	381.0 (15.00)	406.4 (16.00)
AZ-16226	AJBEW162206	355.6 (14.00)	508.0 (20.00)
AZ-16248	AJBEW162408	374.7 (14.75)	577.9 (22.75)
AZ-16286	AJBEW162806	355.6 (14.00)	660.4 (26.00)
AZ-18186/8	AJBEW181806	406.4 (16.00)	406.4 (16.00)
AZ-18186/8	AJBEW181808	406.4 (16.00)	406.4 (16.00)
AZ-18248/10	AJBEW182408	406.4 (16.00)	558.8 (22.00)
AZ-18248/10	AJBEW182410	406.4 (16.00)	558.8 (22.00)
AZ-18308	AJBEW183008	406.4 (16.00)	711.2 (28.00)
AZ-18368/10	AJBEW183608	431.8 (17.00)	882.7 (34.75)
AZ-18368/10	AJBEW183610	431.8 (17.00)	882.7 (34.75)
AZ-18427	AJBEW184207	431.8 (17.00)	1016.0 (40.00)
AZ-205610	AJBEW205610	431.8 (17.00)	1371.6 (54.00)
AZ-20608	AJBEW206008	457.2 (18.00)	1460.5 (57.50)
AZ-24248/10	AJBEW242408	558.8 (22.00)	558.8 (22.00)
AZ-24248/10	AJBEW242410	558.8 (22.00)	558.8 (22.00)
AZ-24308	AJBEW243008	571.5 (22.50)	711.2 (28.00)
AZ-24368/10	AJBEW243608	558.8 (22.00)	863.6 (34.00)
AZ-24368/10	AJBEW243610	558.8 (22.00)	863.6 (34.00)
AZ-30388	AJBEW303808	711.2 (28.00)	914.4 (36.00)
AZ-30388	AJBEW303816	711.2 (28.00)	914.4 (36.00)

\diamond For Groups B and C, all conduits must be sealed within 50.8 mm (2") of the enclosure.