

# ATX™ JBD Series Pre-Drilled Terminal Junction Boxes

## Flameproof

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 – IK10

### Applications

- Terminal junction boxes to facilitate electrical connections in hazardous areas.
- Ideal for use in wet or corrosive atmospheres.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently, such as:
  - Petroleum plants
  - Chemical plants
  - Refineries
  - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently, such as:
  - Food processing
  - Dairy
  - Brewing
  - Silos

### Features

- Flanged flameproof joint for square enclosures.
- Screwed flameproof joint for round enclosure.
- External earth crossing terminal.
- Supplied with one symmetrical zinc plated rail.
- Terminal block not supplied.
- Yellow laminated plastic nameplate with black lettering.
- Pre-Drilled entries.
- Operating temperature -40 °C to +55 °C (-40 °F to +131 °F).

### Standard Materials

- Enclosure housing: gray painted cast iron and marine grade aluminum alloy
- Hardware: stainless steel

### ATEX/IECEX Certifications and Compliances

- Certification Type CF2/A/B/C
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex d IIB
    - Temperature Class: T6 for  $T_a \leq +40$  °C (+104 °F), T5 for  $T_a \leq +55$  °C ( $\leq +131$  °F)
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T95 °C (T203 °F)
    - CE Declaration of Conformity: 50254
    - ATEX Certificate: LCIE 03 ATEX 6061X
- Certification Type CF1F
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex d IIC
    - Temperature Class: T6 for  $T_a \leq +40$  °C (+104 °F), T5 for  $T_a \leq +55$  °C ( $\leq +131$  °F)
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T95 °C (T203 °F)
    - CE Declaration of Conformity: 50257
    - ATEX Certificate: LCIE 03 ATEX 6044X
    - Index of Protection according EN/IEC 60529: IP66
    - Impact Resistance (shock): IK10
    - Internal Volume: > 2dm<sup>3</sup> (122 in<sup>3</sup>) – 2 liters

JBDAB – Aluminum Version



JBDFC – Cast Iron Version



JBDFB – Cast Iron Version



- Certification Type CF20B
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - ATEX/IEC Protection: Ex d IIB
    - Temperature Class: T6
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T80 °C (T176 °F)
  - Ambient Temperature: -40 °C to +55 °C (-40 °C to +131 °F)
  - CE Declaration of Conformity: 50229
  - ATEX Certificate: LCIE 02 ATEX 6057X
  - IECEx Certificate: IECEx LCI 08.0023X
  - Index of Protection according EN/IEC 60529: IP66
  - Impact Resistance (shock): IK10
  - Internal Volume: > 2dm<sup>3</sup> (122 in<sup>3</sup>) – 2 liters

### EURASEC Certification

- Certification Type CF2/A/B/C
  - EURASEC N° TC RU C-FR.Г505.В.00911
- Certification Type CF1F
  - EURASEC N° TC RU C-FR.Г505.В.00911

### Options

- For use with equipment other than terminal blocks, please consult your local sales representative.

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ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
II 2 GD  
IP66 – IK10

Type	Dimensions mm (in)	Threaded Entry Per Side				Rail Length Capacity mm (in)	Weight kg(lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number	Pack
		A	B	C	D					
<b>Ex d IIB Enclosure in Cast Iron</b>										
CF2C	130 x 130 x 90 (5.12 x 5.12 x 3.54)	1 x M20	1 x M20	2 x M20	1 x M20	64 (2.52)	4 (8.82)	3 (183)	JBDFB131309D1	1
CF2A	205 x 145 x 127 (8.07 x 5.71 x 5.00)	2 x M20	1 x M20	3 x M20	1 x M20	120 (4.72)	9.4 (20.72)	3 (183)	JBDFB201413D2	1
CF2B	270 x 190 x 120 (10.63 x 7.48 x 4.72)	—	2 x M20 1 x M25	3 x M20	2 x M20	162 (6.38)	12.6 (27.78)	7 (427)	JBDFB271912D3	1
<b>Ex d IIB Enclosure in Aluminum</b>										
CF20B	370 x 270 x 208 (14.57 x 10.63 x 8.19)	—	3 x M20	5 x M20 1 x M32	3 x M20	260 (10.24)	12.8 (28.22)	24 (1465)	JBDAB372720D4	1
<b>Ex d IIC Enclosure in Cast Iron</b>										
CF1F	167 x 167 x 126 (6.57 x 6.57 x 4.96)	1 x M32	1 x M32	1 x M32	1 x M32	100 (3.94)	6.7 (14.77)	13 (793)	JBDFC161612D5	1
CF1F	167 x 167 x 126 (6.57 x 6.57 x 4.96)	1 x 1" NPT	1 x 1" NPT	1 x 1" NPT	1 x 1" NPT	100 (3.94)	6.7 (14.77)	13 (793)	JBDFC161612D6	1

### Cast Iron Version Dimensions in Millimeters (Inches)

**CF2C**

**CF1F**

**CF2A/CF2B**

Type	External				Internal				Fixings		
	A	B	C	D	E	F	G	H	K	Ø	
CF2C	130 (5.12)	130 (5.12)	90 (3.54)	90 (3.54)	90 (3.54)	65 (2.56)	86 (3.39)	86 (3.39)	10 (0.39)	7 (0.28)	
CF2A	202 (7.95)	144 (5.67)	127 (5.00)	155 (6.10)	95 (3.74)	65 (2.56)	156 (6.14)	98 (3.86)	12 (0.47)	7 (0.28)	
CF2B	267 (10.51)	187 (7.36)	120 (4.72)	200 (7.87)	120 (4.72)	78 (3.07)	202 (7.95)	122 (4.80)	12 (0.47)	7 (0.28)	

### Aluminum Version Dimensions in Millimeters (Inches)

Type	External				Internal				Fixings		
	A	B	C	D	E	F	G	H	K	Ø	
CF20B	370 (14.57)	270 (10.63)	208 (8.19)	300 (11.81)	175 (6.89)	159 (6.26)	250 (9.84)	245 (9.65)	15 (0.59)	11 (0.43)	