

Applications:

- Designed to meet the requirement for distribution and lighting junction boxes
- Available in 13 sizes with standard finishes of painted or 316L stainless steel, together with the high IP rating, make these enclosures suitable for all environmental conditions
- Stainless steel versions are particularly recommended for use in marine or other corrosive environments

Certifications and compliances:

- Class I, Division 2, Groups A, B, C, D
- UL/cUL Listed
- NEMA Type 3S, 4 (painted steel), NEMA Type 4X (stainless steel), NEMA Type 6; IP66
- Ex e IIC
- Intrinsically safe components
- TR-CU and EAC certified
- IECEx/ATEX, Zones 1, 2, 21, 22
- UL50/C22.2 No. 94-M91
- IECEx and ATEX component certificate – BVS13ATEXE015U and IECEx BVS 13.0025U

S-TB-T terminal boxes:

S-TB enclosures are available assembled as custom configured and certified terminal boxes. Options include custom entries, cable glands and plugs with built-in terminals (Ex-e and Ex-i) and other equipment. Contact factory for ordering details.

Standards:

- IEC/EN 60079-0
- IEC/EN 60079-7
- IEC/EN 60079-31
- IEC/EN 60529

EN/IEC certificates:

- BVS16 ATEX-E-096X
- IECEx BVS 16.0062X

Ambient temperatures:

- -55°C/-40°C up to +40°C (T6 and maximum surface temperature of T80°C)
- -55°C/-40°C up to +55°C (T5 and maximum surface temperature of T95°C)
- -55°C/-40°C up to +65/70/80/100/110°C (with temperature class T4 and maximum surface temperature of T120°C)

Materials:

- Equipment available in 316L stainless steel enclosures

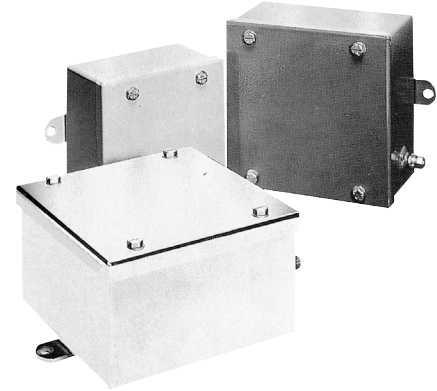
Electrical ratings:

- Rated voltage up to 690V AC/DC; rated current up to 400A; conductor cross-sections up to 240mm²

Markings:

- ATEX and IECEx: Ex e IIC T6/5/4 Gb or Ex eb IIC T6/5/4; Ex tb IIIC T80/95/120°C Db or Ex tb IIIC T80/95/120°C
- EAC CU TR: 1Ex e IIC T6/T5 Gb X or Ex tb IIIC T80/95/120°C Db X

Note: Ambient temperature range depends on ratings of built-in components.



Technical specifications:

Description	Specification
Material	1.5mm thick stainless steel grades: 316L (1.4401); 304 (1.4301) or painted mild steel [Ⓒ]
Finish	Stainless steel Painted Corrosion-resistant electro-polished surface RAL 7032 (gray)
Gasket	Foam-in-place silicone (standard); cut silicone (with gland plates)
Cover mounting	4 x M6 slotted, hexagon head captive screws
Grounding	STB121208-303020 M6 internal/external ground stud STB383822-604022 M10 internal/external ground stud
Box mounting	STB121208-252512 2 x external lugs, 0.315" (8mm) clearance holes STB163812-303020 4 x external lugs, 0.315" (8mm) clearance holes STB383822-604022 4 x external lugs, 0.433" (11mm) clearance holes
Equipment mounting	Mounting pillars or TAS 20 rails welded to base of enclosure (see Dimensions for details)
Ingress protection	All types IEC/EN 60529, IP66
Service temperature range	No gland plates -55°C to +120°C With gland plates -40°C to +120°C
Impact resistance	Minimum 7 J (Nm) to IEC/EN 60079-0, IK 10
Gland plates	STB383822-604022 Optional 3mm thick gland plates available in bottom, left, top and right configurations

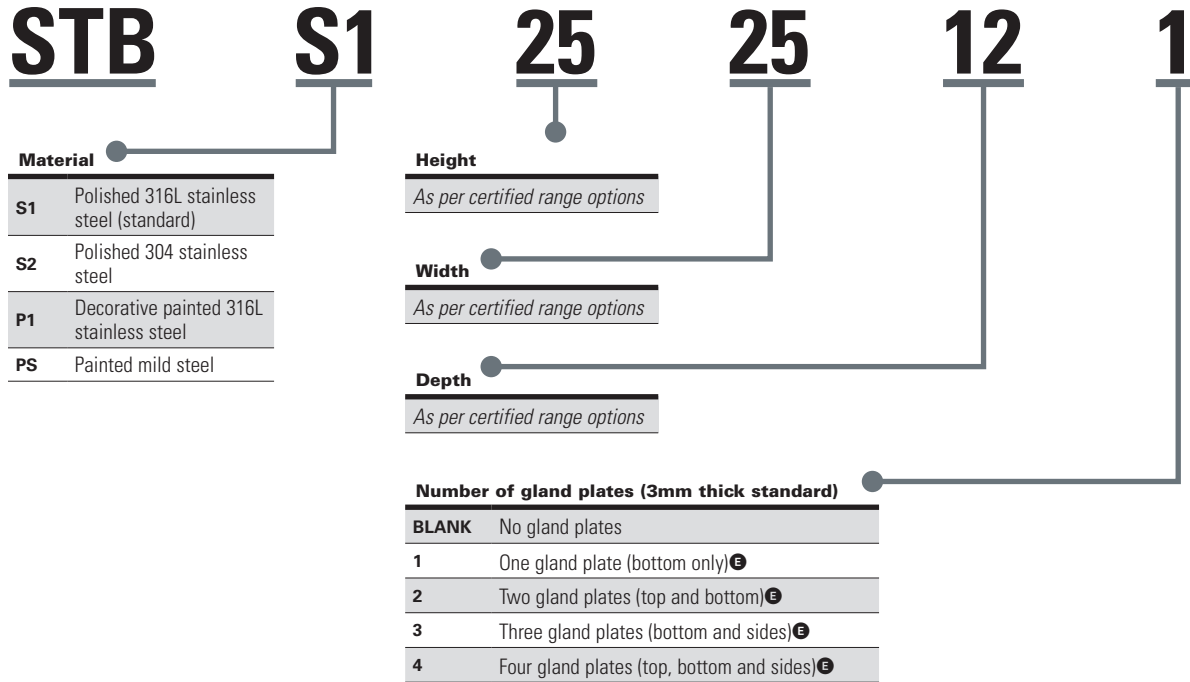
[Ⓐ]When terminal blocks or approved Class I, Division 2 devices are installed within the enclosure in accordance with NEC/CEC requirements. These enclosures are NOT explosionproof and will NOT contain an explosion. Installation of arcing and sparking devices which are not Class I, Division 2 rated or higher is NOT PERMITTED.

[Ⓑ]Enclosures with gland plates are limited to -40°C.

[Ⓒ]Painted mild steel not available with ATEX or IECEx rating.

Ordering information:

Part number example
STBS12525121

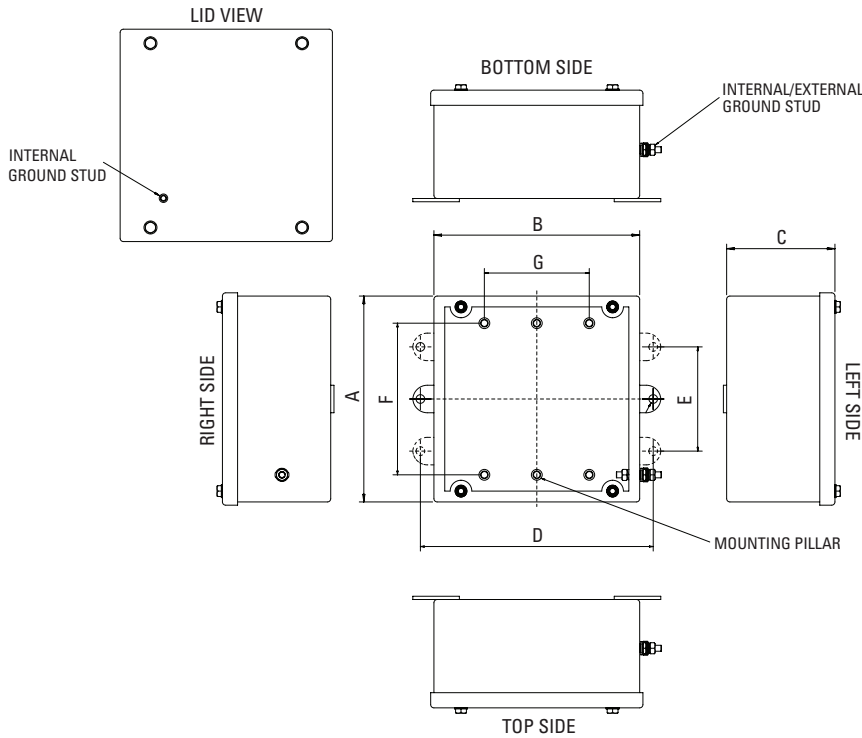


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[Ⓔ]Gland plates are only available on STB 7 (38 x 38 x 22) and larger.

Dimensions:



Short name	Type	Height (A) in. (mm)	Width (B) in. (mm)	Depth (C) in. (mm)	Horizontal mounting feet external fixing centers			Internal mounting centers			Weight lbs. (kg.)
					Horizontal (D) in. (mm)	Vertical (E) in. (mm)	Mounting foot quantity	Vertical pitch (F) in. (mm)	Horizontal pitch (G) in. (mm)	Mounting pillar quantity [Ⓒ]	
STB 1	12 12 08	4.72 (120)	4.72 (120)	3.15 (80)	5.71 (145)	N/A	2	2.76 (70)	0.00 (0)	2	3.09 (1.40)
STB 1.1	15 12 08	5.91 (150)	4.72 (120)	3.15 (80)	5.71 (145)	N/A	2	3.94 (100)	0.00 (0)	2	3.50 (1.59)
STB 2	15 15 09	5.91 (150)	5.91 (150)	3.54 (90)	6.89 (175)	N/A	2	3.94 (100)	0.00 (0)	2	4.19 (1.90)
STB 2.1	19 15 09	7.48 (190)	5.91 (150)	3.54 (90)	6.89 (175)	N/A	2	5.51 (140)	0.00 (0)	2	5.40 (2.45)
STB 3	19 19 10	7.48 (190)	7.48 (190)	3.94 (100)	8.46 (215)	N/A	2	5.51 (140)	0.00 (0)	2	6.61 (3.00)
STB 4	25 25 12	9.84 (250)	9.84 (250)	4.72 (120)	10.83 (275)	N/A	2	7.09 (180)	0.00 (0)	TAS20	8.16 (3.70)
STB 5	16 38 12	6.30 (160)	14.96 (380)	4.72 (120)	15.94 (405)	3.15 (80)	4	0.00 (0)	11.81 (300)	TAS20	8.14 (3.69)
STB 6	25 40 13	9.84 (250)	15.75 (400)	5.12 (130)	16.73 (425)	5.91 (150)	4	7.09 (180)	0.00 (0)	TAS20	11.80 (5.35)
—	30 30 20	11.81 (300)	11.81 (300)	7.87 (200)	12.80 (325)	9.06 (230)	4	9.06 (230)	0.00 (0)	TAS20	14.54 (6.59)
STB 7	38 38 22	14.96 (380)	14.96 (380)	8.66 (220)	17.13 (435)	9.84 (250)	4	11.81 (300)	11.81 (300)	4	18.70 (8.48)
STB 8	40 60 22	15.75 (400)	23.62 (600)	8.66 (220)	25.83 (656)	10.39 (264)	4	12.60 (320)	20.47 (520)	4	28.60 (12.97)
—	34 75 15	13.39 (340)	29.53 (750)	5.91 (150)	30.51 (775)	10.63 (270)	4	10.24 (260)	13.19 (335)	6	22.22 (10.08)
STB 9	60 40 22	23.62 (600)	15.75 (400)	8.66 (220)	17.95 (456)	18.27 (464)	4	20.47 (520)	12.60 (320)	4	28.60 (12.97)

Note: See technical data for mounting hole and ground stud sizes.

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[Ⓒ]Mounting pillar pattern: 2 x M5, 10mm (H) – on vertical center line
 TAS20 – two parallel rails at defined pitch about center
 4 x M6, 25mm (H) – one in each corner at defined pitch about center
 6 x M6, 25mm (H) – two on center and one in each corner at defined pitch from center

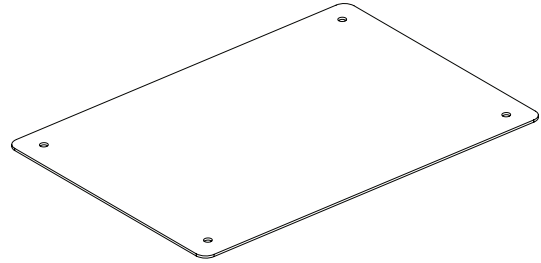
Accessories (ordered separately):

Mounting hardware

Sliding mounting nuts and screws for mounting assemblies or components to the support rail type TAS 20.

Description	Type	Cat. #
M5 screw for TS32/TS35	SFNS 5	ACCSFNM5

Mounting plates



Enclosure size	Cat. # 2mm zinc coated steel	Cat. # 2mm 316L stainless steel
STB191910	STBZTMP1919	STBS1MP1919
STB252512	STBZTMP2525	STBS1MP2525
STB163812	STBZTMP1638	STBS1MP1638
STB254013	STBZTMP2540	STBS1MP2540
STB303020	STBZTMP3030	STBS1MP3030
STB383822	STBZTMP3838	STBS1MP3838
STB406022	STBZTMP4060	STBS1MP4060
STB347515	STBZTMP3475	STBS1MP3475
STB604022	STBZTMP6040	STBS1MP6040

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