

TASHKOO



Explosion proof

Junction Boxes & Glands

Heavy Industry Solutions

- ✓ **GRP**
- ✓ **Stainless Steel**
- ✓ **Aluminium**
- ✓ **Exe, Ex ia, Exd**

info@tashkoo.com

www.tashkoo.com



Ex GRP Junction Boxes

- Glass Reinforced Polyester, highly resistant to corrosion, petrochemical products and fats, combined with high impact strength and lightweight.
- Designed to meet the highest standards of protection demanded by electrical and electronics designers and specifiers, serving both industrial and aerospace markets.
- Suitable for all Ex-areas
- II 2/3 G/D e/ia/d IIC T6/T5/T4 Gb

TASHKOO offered polyester enclosures and junction boxes have robust construction for outdoor and indoor applications, there are more than 50 different sizes and variations for enclosures and junction boxes.

Empty enclosures are available for individual fittings and Exe / Exia terminal enclosures.

The GPR enclosures and junction boxes can be used in rough environments, these products have good chemical resistance and insulation properties and are suitable for use in wide temperature range.

Technical Specifications

MATERIAL:

ALL ENCLOSURE BODIES AND LIDS ARE MANUFACTURED FROM GLASS REINFORCED POLYESTER WHICH IS HIGHLY RESISTANT TO CORROSION, PETROCHEMICAL PRODUCTS AND FATS, COMBINED WITH HIGH STRENGTH AND LIGHT WEIGHT. LIDS ARE SECURED WITH STAINLESS STEEL FASTENERS WHICH LOCATE OUTSIDE THE SEALED AREA.

IP RATING:

BECAUSE OF THEIR DESIGN USING A RAISED RIB ON THE BOX BODY AND A RECESSED CHANNEL IN THE LID HOUSING A CONTINUOUS NEOPRENE SEAL THE STANDARD OF IP 66 IS ACHIEVED AS STANDARD WITH IP 67 VERSIONS AVAILABLE AT A SLIGHT INCREASE IN COST.

TEMPERATURE RANGE:

USING THE STANDARD NEOPRENE GASKET -40°C TO +80°C OR USING THE OPTIONAL SILICON GASKET -50°C TO + 120°C. FIRE RESISTANT TYPES ARE AVAILABLE TO SPECIAL ORDER WITH CERTIFICATION TO IEC 331 750°C.

FINISHES:

AVAILABLE AS STANDARD GREY COLOUR RAL 7001. OPTIONAL COLOURS TO CUSTOMER SPECIFICATION ARE AVAILABLE. RFI SHIELDING FOR EMC COMPLIANCE AND SCREEN PRINTING.

CUSTOMISING:

A FULL RANGE OF SECONDARY OPERATIONS IS AVAILABLE AT VERY COMPETITIVE PRICES INCLUDING DRILLING AND TAPPING, MACHINING, ENGRAVING, FITTING OF CABLE GLANDS AND ACCESSORIES, PLUGS AND SOCKETS, AND A FULL RANGE OF TERMINAL BLOCKS AND FITTINGS.

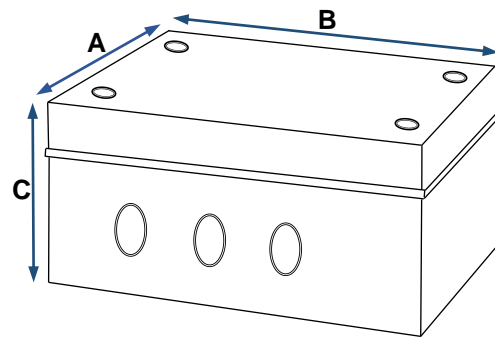
Ex'e' APPROVAL:

ALL THE CEP RANGE IS AVAILABLE WITH FULL EEx'e' CERTIFICATION COMPLETE WITH A WIDE RANGE OF TERMINALS AND CABLE GLANDS.

ACCESSORIES:

INTERNAL HINGES, MOUNTING PLATES, EXTERNAL HINGES, EXTERNAL MOUNTING FEET AND WIRE LOCK SCREWS ARE ALL AVAILABLE AT EXTRA COST.

Information provided is subject to change without notice



Ordering Information:

Part Number	LENGTH (B)	WIDTH (A)	DEPTH (C)
GRP 807555	75	80	55
GRP 117555	75	110	55
GRP 167555	75	160	55
GRP 197555	75	190	55
GRP 197575	75	190	75
GRP 237550*	75	230	55
GRP 121290	120	122	90
GRP 122090	120	220	91
GRP 161690	160	160	91
GRP 261690	160	260	90
GRP 361690	160	360	90
GRP 561690*	160	560	90
GRP202016	200	200	168
GRP203016	200	300	168
GRP 252512	250	255	120
GRP 252516	250	255	160
GRP 402512	250	400	120
GRP 402516	250	400	160
GRP 256012	250	600	121
GRP 363690	360	360	91
GRP 404012	405	400	120
GRP403020	405	305	202
GRP404020	405	400	201
GRP604025	605	405	252

For other sizes and configurations or optional items

Please send your inquiries to: info@tashkoo.com

Accessories & optional items:



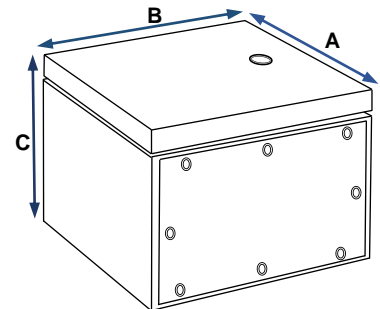


Ex Stainless Steel Junction Boxes

- The stainless and mild steel enclosures has been developed in enclosures for the oil and gas industries
- The range combines all of the features demanded by the industry with the benefit of reduced costs of ownership in line with current crine initiatives.
- By using the latest computerized manufacturing techniques and improved designs of construction the Exe range offers significant cost savings over other types on the market today.
- Suitable for all Ex-areas
- II 2/3 G/D e/ia/d IIC T6/T5/T4 Gb

TASHKOO offered Stainless Steel enclosures and junction boxes are high quality systems for aggressive areas according to ATEX and IEC directive, suitable for outdoor and indoor applications, there are more than 40 different sizes and variations for enclosures and junction boxes. Empty enclosures are available for individual fittings and Exe / Exia terminal enclosures.

The offered SS enclosures and junction boxes can be used in rough environments, these products have good chemical resistance and insulation properties and are suitable for use in wide temperature range.



Technical Specifications

MATERIAL:

EITHER 1.5MM THICK 316L STAINLESS STEEL OR MILD STEEL FOR THE BODIES AND LIDS AND 2MM FOR THE GLAND PLATES.

IP RATING:

BY USING A SINGLE PIECE GASKET ON THE DOOR AND THE GLAND PLATES AND BECAUSE OF THE TURNED OUT FLANGE ON THE ENCLOSURE BODY A MINIMUM OF STANDARD OF IP 66 IS ACHIEVED. FOR A SLIGHT INCREASE IN COST, VERSIONS ARE AVAILABLE TO IP67 AND IP68 UP TO 30 METRES SUBMERSION DEPTH.

GASKETS:

SINGLE PIECE CLOSED CELL NEOPRENE SINGLE PIECE HALOGEN FREE.

TEMPERATURE:

-40°C TO +130°C WITH THE OPTION OF FIRE TESTED VERSIONS WHICH ARE SUITABLE FOR TEMPERATURES OF 950°C FOR THREE HOURS.

CUSTOMISING:

A FULL RANGE OF SECONDARY OPERATIONS IS AVAILABLE AT VERY COMPETITIVE PRICES INCLUDING DRILLING AND TAPPING, MACHINING, ENGRAVING, FITTING OF CABLE GLANDS AND ACCESSORIES, PLUGS AND SOCKETS, AND A FULL RANGE OF TERMINAL BLOCKS AND FITTINGS.

Ex'e' APPROVAL:

CERTIFIED TO THE LATEST GENERATION D STANDARDS EEX'E' II T6 TO BS 5501 PART 1 AND PART 6, EN 50 014 AND EN 50 019 AND EEX'II' TO BS 5501 PART 1 AND 7, EN 50 014 AND EN 50 020. ALL SIZES ARE CERTIFIED TO BE FITTED WITH ANY MAKE OF TERMINAL PROVIDED THAT THEY ARE THEMSELVES EEX'E' CERTIFIED. IN ADDITION ALL SIZES ARE COMPONENT CERTIFIED WHICH ALLOWS FOR OTHER APPARATUS TO BE INSTALLED AND A SEPERATE APPROVAL SOUGHT.

ACCESSORIES:

A WIDE RANGE OF OPTIONAL ACCESSORIES ARE AVAILABLE FROM THE FOLLOWING LIST: BREATHER DRAINS IN PLASTIC, BRASS OR STAINLESS STEEL, TOP HAT LABEL BRACKETS FOR EXTERNAL LABELLING WITHOUT DRILLING THE ENCLOSURES LIDS. INTERNAL AND EXTERNAL MOUNTING PLATES, FREE-STANDING ANGLE FRAMES FOR REMOTE MOUNTING IN THE FIELD, EXTERNAL RAIN HOODS, FIRE INSULATION FOR CRITICAL LOCATIONS.

IN ADDITION TO THE ABOVE ENCLOSURES SIZES WE ARE ABLE TO OFFER FULLY CERTIFIED UNITS IN BESPOKE SIZES PROVIDING THE DIMENSIONS RANGE BETWEEN 143*143*93 MM AND 977*677*208 MM, PLEASE CONSULT OUR TECHNICAL SALES DESK FOR A QUOTATION

Ordering Information:

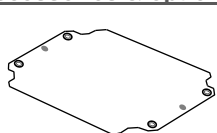
Part Number	LENGTH (B)	WIDTH (A)	DEPTH (C)
SS1 101060	100	100	61
SS1 101560	100	150	61
SS1 141490	143	143	93
SS1 151580	150	150	81
SS1 102060	100	200	61
SS1 191990	193	193	93
SS1 202080	200	200	81
SS1 202012	200	200	120
SS1 211613	218	168	130
SS1 203080	200	300	81
SS1 203012	200	300	121
SS1 303012	300	300	121
SS1 373715	370	370	150
SS1 383816	380	380	161
SS1 404012	405	400	120
SS1 425215	427	527	156
SS1 405016	400	500	161
SS1206012	200	600	121
SS1 382620	380	260	205
SS1 484820	480	480	205
SS1 503520	500	350	205
SS1 578215	577	827	156
SS1 624520	620	450	205
SS1 679720	677	977	208
SS1 765020	762	508	205
SS1 866420	860	640	205
SS1 916120	914	610	205
SS1 987420	980	740	205

SS2 models (304L SS) are available for some sizes

For other sizes and configurations or optional items

Please send your inquiries to: info@tashkoo.com

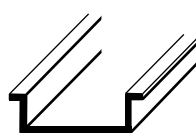
Accessories & optional items:



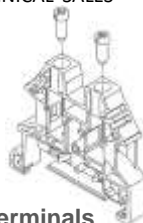
Mounting Plate



Blind Flange



DIN Rails



Terminals



Cable Gland



Mounting Bracket



PE Bar

Ex Aluminium Junction boxes

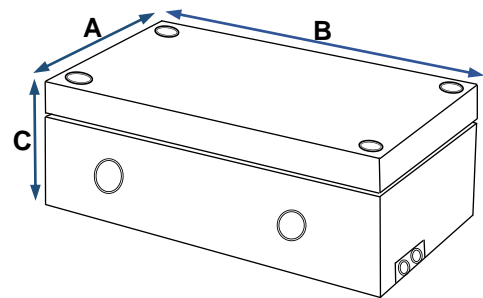


- The Diecast Aluminum enclosures has been developed in enclosures for the oil and gas industries
- The range combines all of the features demanded by the industry with the benefit of reduced costs of ownership.
- By using the latest computerized manufacturing techniques and improved designs of construction the Exe range offers significant cost savings over other types on the market today.
- Suitable for all Ex-areas
- II 2/3 G/D e/ia/d IIC T6/T5/T4 Gb

TASHKOO offered Aluminum enclosures and junction boxes are high quality systems for aggressive areas according to ATEX and IEC directive, suitable for outdoor and indoor applications, there are more than 40 different sizes and variations for enclosures and junction boxes.

Empty enclosures are available for individual fittings and Exe / Exia terminal enclosures.

The offered Aluminum enclosures and junction boxes can be used in rough environments, these products have good chemical resistance and insulation properties and are suitable for use in wide temperature range.



Technical Specifications

MATERIAL:

ENCLOSURE SYSTEMS OF DIECAST ALUMINUM USABLE IN ALL EX- AREAS.
DIN EN 1706 EN AC-ALSI 12 (FE)

IP RATING:

BY USING A SINGLE PIECE GASKET ON THE DOOR AND THE GLAND PLATES AND BECAUSE OF THE TURNED OUT FLANGE ON THE ENCLOSURE BODY A MINIMUM OF STANDARD OF IP 66 TO EN 60529 IS ACHIEVED.

COLOUR:

POWER COATING, RAL 7001, SILVER GREY.

TEMPERATURE:

-455°C TO +135°C FOR OTHER SEALS/EXECUTIONS SEE EX APPROVAL

CUSTOMISING:

A FULL RANGE OF SECONDARY OPERATIONS IS AVAILABLE AT VERY COMPETITIVE PRICES INCLUDING DRILLING AND TAPPING, MACHINING, ENGRAVING, FITTING OF CABLE GLANDS AND ACCESSORIES, PLUGS AND SOCKETS, AND A FULL RANGE OF TERMINAL BLOCKS AND FITTINGS.

Ex'e' APPROVAL:

CERTIFIED TO THE LATEST GENERATION D STANDARDS EEX'E' II T6 TO BS 5501 PART 1 AND PART 6, EN 50 014 AND EN 50 019 AND EEX'II' TO BS 5501 PART 1 AND 7, EN 50 014 AND EN 50 020. ALL SIZES ARE CERTIFIED TO BE FITTED WITH ANY MAKE OF TERMINAL PROVIDED THAT THEY ARE THEMSELVES EEX'E' CERTIFIED. IN ADDITION ALL SIZES ARE COMPONENT CERTIFIED WHICH ALLOWS FOR OTHER APPARATUS TO BE INSTALLED AND A SEPERATE APPROVAL SOUGHT.

ACCESSORIES:

A WIDE RANGE OF OPTIONAL ACCESSORIES ARE AVAILABLE FROM THE FOLLOWING LIST: BREATHER DRAINS IN PLASTIC, BRASS OR STAINLESS STEEL, TOP HAT LABEL BRACKETS FOR EXTERNAL LABELLING WITHOUT DRILLING THE ENCLOSURES LIDS. INTERNAL AND EXTERNAL MOUNTING PLATES, FREE-STANDING ANGLE FRAMES FOR REMOTE MOUNTING IN THE FIELD, EXTERNAL RAIN HOODS, FIRE INSULATION FOR CRITICAL LOCATIONS.

EMPTY ENCLOSURE WITH SILICON SEAL AND EXTERNAL EARTH CONNECTION. ENCLOSURE SYSTEM DEPENDING ON VERSION EITHER WITH SILICON SEAL, EXTERNAL EARTHING, DIN RAIL, INTERNAL EARTHING CONNECTION, TERMINALS, MANUFACTURING, CABLE GLANDS.

Ordering Information:

Part Number	LENGTH (B)	WIDTH (A)	DEPTH (C)
AL1 645834	64	58	34
AL1 641534	64	150	34
AL1 807557	80	75	57
AL1 801757	80	175	57
AL1 802552	80	250	52
AL1 101081	100	100	81
AL1 102081	100	200	81
AL1 121281	120	120	81
AL1 122281	120	220	81
AL1 123681	120	360	81
AL1 141490	140	140	91
AL1 161690	160	160	91
AL1 162690	160	260	91
AL1 165690	160	560	91
AL1 181810	180	180	101
AL1 182810	180	280	101
AL1 231011	230	100	111
AL1232018	230	200	181
AL1 233318	230	330	181
AL1 234011	230	400	111
AL1 234025	230	600	111
AL1 236011	230	827	156
AL1 314011	313	404	111
AL1 314014	312	403	141
AL1 314022	313	404	227
AL1 316011	310	600	111
AL1 316018	310	600	181
AL1 606020	600	600	202

For other sizes and configurations or optional items

Please send your inquiries to: info@tashkoo.com

Accessories & optional items:



Mounting Plate PE Busbar

Internal Hinges

DIN Rails

Terminals

Ex Hinges

Glands

Ex. Mounting Bracket

PE Bar

Sealable Screw

Ex Cable Glands



- Ex approved cable glands (metric and PG) for standard and armoured cables
- Materials: Polyamide, Brass (nickel plated) and Stainless Steel
- Approvals Exe, Ex d.
- Equipment group : II
- Zone: 1, 2, 21, 22 , Temperature range :
 - Polyamide : -60°C to +70°C
 - Brass : -40°C to +100°C (standard cables), -60°C to +130°C (armoured cables)
 - Stainless Steel: -20°C to +95°C
- Ingress protection: IP66 to EN60529 , (Polyamide materials IP68 and Brass material IP68 with additional sealing insert)
- Ex approved stopping and drain plugs metric and PG
- Materials Polyamide and Brass (nickel plated)
- Breather elements, counter nuts and additional accessories

TASHKOO offers Ex approved cable glands (metric and PG) and accessories for both standard and armoured cables. Cable glands, stopping plugs and drain plugs can be offered in different sizes. Below table can be used for choosing the correct items for different applications:

Cable Glands

CODE	DESCRIPTION
PM:	M Ex Polyamide cable glands
PPG:	PG Ex Polyamide cable glands
BeM:	M Exe Brass (nickel plated) cable glands
BePG:	PG Exe Brass (nickel plated) cable gland
BedM:	M Exe, d Brass (nickel plated) Cable gland
BMSA:	Ex Brass (nickel plated) cable gland SWA
BMSB:	Ex Brass (nickel plated) cable gland SWB
SSM:	M Ex Stainless Steel cable glands

Stopping Plugs

CODE	DESCRIPTION
PBM:	M Ex Polyamide Blind glands
PBPG:	PG Ex Polyamide Blind glands
BBeMs:	M Exe, d Brass (nickel plated) Blind gland, short
BBeMI:	M Exe, d Brass (nickel plated) Blind gland, long
BBPG:	PG Exe Brass (nickel plated) cable gland

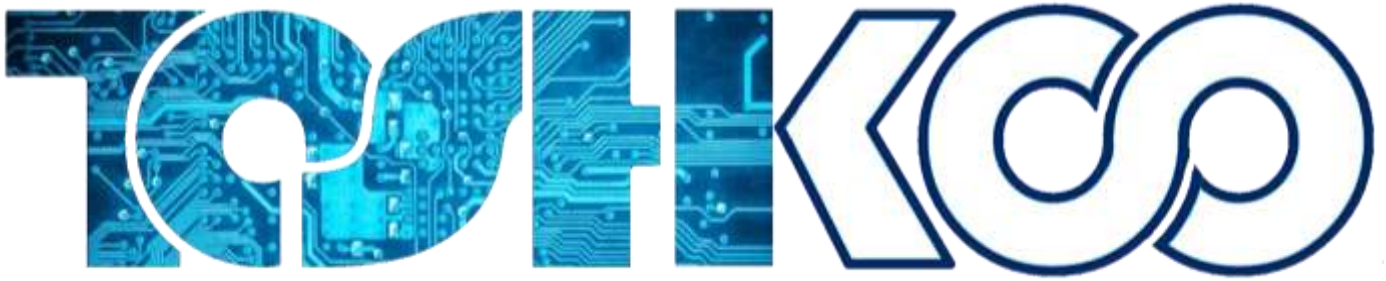
Ordering Information:

P/N	Cable Ø	SW/GL	P/N	Cable Ø	SW/GL	P/N	Cable Ø	Cable Ø	SW/GL	P/N	SW/GL	P/N	SW/GL
	mm	mm		mm	mm		Inside, mm	Outside, mm	mm		mm		mm
Polyamide Glands			Brass Glands			Brass Glands for Armoured cables			Polyamide and Brass Blind Glands				
PM12	4-6.5	15/15	BeM12	4.5-6.5	14/5	BMSA20a	3.1-8.6	6.1-13.2	24/15	PBM12	15/8	BBeMs12	14/12
PM16	5-8	19/10	BeM16	5-9.5	17/5	BMSA20b	6.1-11.6	9.5-15.9	24/15	PBM16	19/10	BBeMs16	18/12
PM20	6-12	24/10	BeM20	8-13	22/6	BMSA20c	6.5-13.9	12.5-20.9	31/15	PBM20	23/10	BBeMs20	23/12
PM25	13-18	33/10	BeM25	9-16	27/7	BMSA25a	11.1-19.9	14-22	38/15	PBM25	28/10	BBeMs25	29/12
PM32	18-25	42/10	BeM32	12-21	34/8	BMSA25b	11.1-19.9	18.2-26.2	38/15	PBM32	36/15	BBeMs32	39/12
PM40	22-32	53/18	BeM40	16-27	42/8	BMSA32	17-26.2	23.7-33.9	46/14	PBM40	46/18	BBeMs40	45/15
PM50	30-38	60/18	BeM50	23-35	55/9	BMSA40	22-32.1	27.9-40.4	55/15	PBM50	55/18	BBeMs50	58/15
PM63	34-44	65/18	BeM63	36-48	65/10	BMSA50a	29.5-38.1	35.5-46.7	60/15	PBM63	69/18	BBeMs63	70/19
PPG13.5	6-12	24/9	BePG7	4.5-6.5	14/5	BMSA50b	35.6-44	40.4-53.1	70/15	PBPG7	15/8		
PPG16	10-14	27/10	BePG9	5-9.5	14/6	BMSA63a	40-149.9	45.6-59.4	75/15	PBPG9	19/11	BBeMI16	24/15
PPG21	13-18	33/11	BePG11	7-11.5	20/6	BMSA63b	47.2-55.9	54.6-65.9	80/15	PBPG11	19/10	BBeMI20	27/15
PPG29	18-25	42/11	BePG13.5	8-13	22/6.5	BMSB20a	3.1-8.6	6.1-13.2	24/15	PBPG13.5	23/10	BBeMI25	36/15
PPG36	22-32	53/13	BePG16	9-15	24/6.5	BMSB20b	6.1-11.6	9.5-15.9	24/15	PBPG16	28/10	BBeMI32	41/15
PPG42	30-38	60/13	BePG21	12-19	30/7	BMSB20c	6.5-13.9	12.5-20.9	31/15	PBPG21	36/15	BBeMI40	50/15
PPG48	34-44	65/14	BePG29	17-26	40/8	BMSB25a	11.1-19.9	14-22	38/15	PBPG29	46/18	BBeMI50	60/15
			BePG36	23-34.5	50/9	BMSB25b	11.1-19.9	18.2-26.2	38/15	PBPG36	55/18	BBeMI63	70/19
			BePG42	28-40	58/10	BMSB32	17-26.2	23.7-33.9	46/15	PBPG42	69/18		
Stainless Steel Glands			BePG48	36-48	65/10	BMSB40	22-32.1	27.9-40.4	55/15			BBePG7	14/10
SSM12	3-6.5	4/6.5	BeM20a	3.2-8.7	24/15	BMSB50a	29.5-38.1	35.5-46.7	60/15			BBePG9	19/10
SSM16	5-10	20/6	BedM20b	6.1-11.7	24/15	BMSB50b	35.6-44	40.4-53.1	70/15			BBePG11	22/10
SSM20	10-14	24/6	BedM20c	6.5-14	27/15	BMSB63a	40-149.9	45.6-59.4	75/15			BBePG13.5	24/10
SSM25	13-18	30/7	BedM25	11.1-20	36/15	BMSB63b	47.2-55.9	54.6-65.9	80/15			BBePG16	27/10
SSM32	20-25	41/8	BedM32	17-26.3	41/15							BBePG21	32/12
SSM40	22-33	50/8	BedM40	23.5-32.2	50/15							BBePG29	41/12
			BedM50a	31-38.2	55/15							BBePG36	55/14
			BedM50b	35.6-44.1	60/15								
			BedM63a	41.5-50	70/15								
			BedM63b	47.2-56	75/15								

SW = Width across flats
GL = Thread length

For other sizes, please send your inquiries to: info@tashkoo.com





TASHKOO offers a range of weatherproof and Explosion proof enclosures, junction boxes and cable glands and accessories.

The junction boxes and glands are designed for arduous environment. In-house design facility gives our factories and designers the flexibility to furnish an entire estate with the same hardware, but with a choice of connectivity for each location. This allows projects to be deployed efficiently and cost-effectively, our offered standard range of products combine explosion proof and weatherproof with bespoke design. But where we really excel is our flexibility when you need a customized product.

The successful cooperation with thousands of customers all over the world and the supports to hundreds of projects have made our offered products manufacturers reliable and popular supplier of industrial enclosures and junction boxes and accessories. The main products include explosion proof and weatherproof junction boxes in GRP, Brass and stainless steel materials.



The offered Ex products are in compliance with:



Protection Concepts:

- ✓ Ex e (increased safety)
- ✓ Ex ia (intrinsically safe)
- ✓ Ex d 9flameproof encapsulation)
- ✓ Ex tb (protection by enclosure)

TASHKOO is a British specialist company in the field of Electrical, Telecommunications & Control systems and solutions. TASHKOO engineers and professionals have over 20 years of experiences in turn-key projects for manufacturing, systems integrations, installations and commissioning of advanced technology products for electrical , power line, telecommunications and control systems and solutions.

TASHKOO engineers have many years of successful experiences to supply customers with the most cost effective solutions based on latest technology products from the world leading manufacturers. TASHKOO is experienced in providing complete solutions for complex requirements.

TASHKOO can offer value added services which will save your money, resources, and headaches and smoothly get your electrical, telecommunications & control systems up and running in a shorter time. We can simply customize our offers to suit your technical requirements.



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