> IP55 - SANDWICH

An Indo-Swiss Venture

ENTRACO BKS
BUS DUCTS PVT. LTD.

An Indo-Swiss Venture

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>IP55

Sandwich Bus Duct & Rising Mains

Salient Features

- Standard: IEC 60439 Part II.
- Extruded Aluminum Enclosure.
- Polyester Powder Coat
- Single Bolt Contact Joint.
- Ingress Protection – IP 55
- Modular Design.
- Easy For Installation.
- Fix & Plug in Type Tap-off Point.
- Very Compact Overall Dimensions
- Available With Aluminum Conductor & Copper Conductor.

IP55 - SANDWICH BUS DUCT

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ENTRACO BKS

EntracoBKS bus ducts are proud to present the cutting edge Swiss technology bus duct that is second to none in the world. Our approach to design is revealed in the beautiful simplicity of our products.

EntracoBKS bus ducts are the lifeline for every major project from Residential towers to Nuclear plants, IT Parks to Chemical factories, Manufacturing units to Oil refineries, Airports to Seaports, Hospitals to Commercial Malls and much more.

EntracoBKS team and its bus ducts work with the stakeholders to make these projects successful to its fullest potential. Our approach is revealed in the beautiful simplicity of our products that are smart, easy to install and maintenance free.

Let us know how we can help you.

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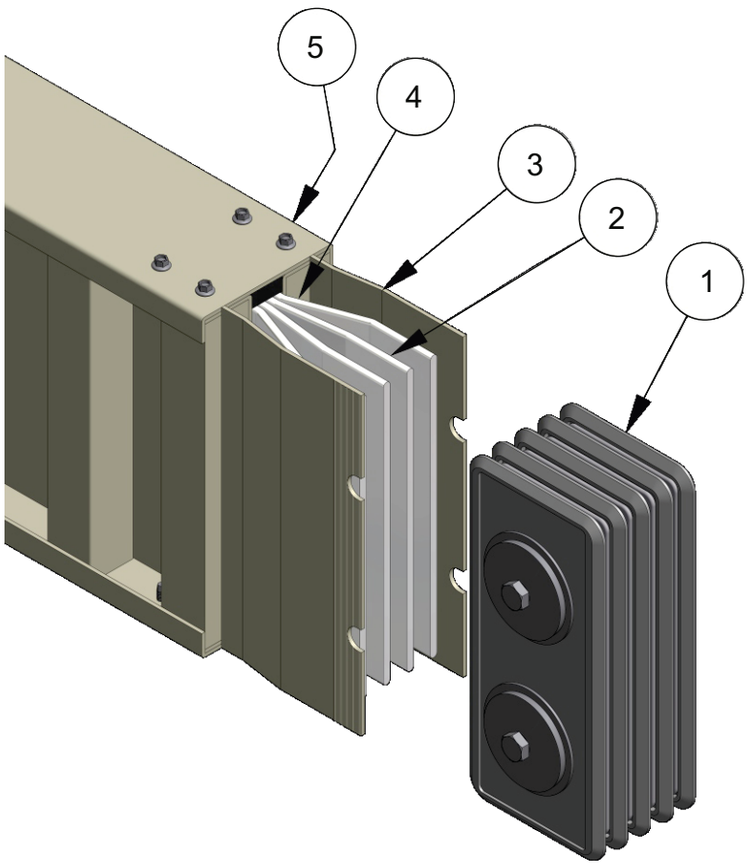
IP55 - SANDWICH BUS DUCT



1) Mono block Joint

2) Conductor (Copper / Aluminum)

3) Earth Terminal

4) Film Insulation

5) Powder Coated Extruded Aluminum Enclosure

GENERAL

The LV-S bus bar trunking system used for power transmission and distribution for industrial, Commercial and service industry. Its unique design provide a neat and attractive alternative to cable, its Hybrid option (Cast resin-extruded Aluminium profile) also offers flexibility to site requirements and ease of installation in terms of jointing and fitting with no requirement for cable trays and complicated terminations. An entire building can be fed from a single riser with no need for expensive and complicated cable runs to each floor. The LV-S bus bar trunking system is offered in rated current from 400A – 5000A with aluminium conductors While in rated current from 630A – 6300A with copper conductors.

Enclosure Details

The LV-S bus bar trunking system is made with sandwich technology (compact); the conductor bars are compacted without any space inside the enclosure. This technology guarantee to the product high performances concerning the voltage drop values even in high current and long distances extreme conditions. The enclosure is made by aluminium alloy 3mm thick extruded profile giving significant reduction to the product in impedance, reactance and magnetic flux leakage it also facilitate non-ventilated, naturally cooling and totally enclosed for protection against mechanical damages, dust accumulation in compact and sandwich type and a great save on weight. The enclosure is bolted along the bottom & Top sides with high tensile strength hardware,. No fastening bolts or screws penetrate the enclosure or enter the bus bar package. The LV-S bus bar trunking system is offered in the standard version is applied pure polyster powder paint with finish of RAL 7035 by an automated electrostatic process. The standard protection degree is IP55.

Earth System

The Aluminium alloy enclosure would also give integral ground as standard requirement. Additional external earth tape can be fixed to the outer part of the enclosure as per requirement.

Busbars

The standard product is offered in the 3p+n+pe with the neutral and the phase of the same cross section and the earthling (enclosure) cross-section more than 100% of the phase one. Phase and neutral conductors are made by one or two bars depending of the rated current. 55% conductivity aluminium conductors are galvanically tin-plated along their entire length while on request, 98% conductivity copper conductors can be galvanically tin- or silver-plated along their entire length and are fully insulated using a halogen free polyester sheath (thermic class f 150°c). The LV-S busbar trunking conductor bars have full rounded edges. This makes for a smooth and easy connection between the bus trunking .

Joints

The electrical connection is achieved by mono-block joint system. To check for tightness without de-energizing the busduct system, the joints shall be of maintenance-free system Tighten with one or more bolts (depending of the busbar trunkings rated current) guarantying the electrical continuity between the units of the run. The high strength bolt is insulated by a high quality insulation material for heat and impact forces. For uniformed distribution of the clamping force over the joints, all bolted connections are equipped with Belleville washers. It shall have an adjustability of ±5mm for a precise alignment and to facilitate an easy field installation. Furthermore the standard version is the right solution in extreme atmospheric conditions or where the induced magnetic field values prescribed are very low as in the high value added service industries buildings. The LV-S bus bar trunking system meets the requirements of IEC 60 439-2 and is manufactured in an ISO-9001 certified facility.

IP55 - SANDWICH BUS DUCT

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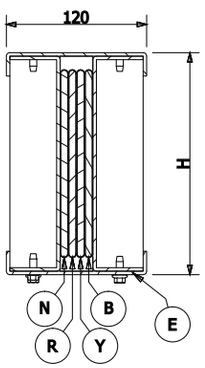
TECHNICAL DATA

ALUMINIUM

SINGLE BAR

Type SB	In A	Conductor mm	Ik (1sec.) kA	Ik (dyn.) kA	R_{20} µΩ	R_t µΩ	X_t µΩ	Z_t µΩ	H mm	Area mm^2	Weight Kg/M
LV-S SB 060 A 03	400	03x60	12	24	106.11	126.43	49.9	133.27	90	178	8.5
LV-S SB 060 A 04	630	04x60	12	24	92.64	110.27	28.29	115.89	90	237	10.5
LV-S SB 060 A 06	800	06x60	27	56	80.56	95.89	24.6	100.77	90	352	12
LV-S SB 080 A	1000	06x80	53	117	60.42	73.8	53.6	92.9	110	472	14
LV-S SB 100 A	1250	06x100	53	117	81.97	96.1	139.9	169.7	130	592	16
LV-S SB 120 A	1400	06x120	65	143	40.28	48.8	40.88	64.3	150	712	18
LV-S SB 160 A	1600	06x160	65	143	30.21	61.2	15	63	190	952	21
LV-S SB 200 A	2000	06x200	65	143	62.6	73.4	35.4	81.5	230	1192	25
LV-S SB 240 A	2500	06x240	65	143	20.14	24.55	28.44	36.42	270	1432	28

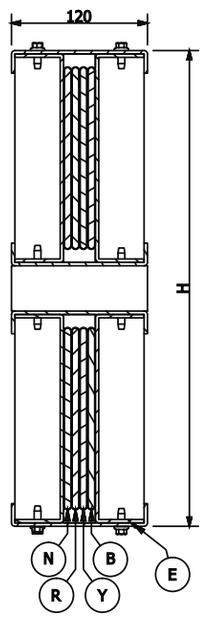


Type DB	In A	Conductor mm	Ik (1sec.) kA	Ik (dyn.) kA	R_{20} µΩ	R_t µΩ	X_t µΩ	Z_t µΩ	H mm	Area mm^2	Weight Kg/M
LV-S DB 160 A	3200	06x160	80	176	41.66	48.84	11.47	50.18	420	1904	43
LV-S DB 200 A	4000	06x200	80	176	12.08	14.87	24.76	28.38	500	2384	51
LV-S DB 240 A	5000	06x240	80	176	19.39	22.73	13.86	26.47	580	2864	57

DOUBLE BAR

COPPER

Type SB	In A	Conductor mm	Ik (1sec.) kA	Ik (dyn.) kA	R_{20} µΩ	R_t µΩ	X_t µΩ	Z_t µΩ	H mm	Area mm^2	Weight Kg/M
LV-S SB 060 C 03	600	03x60	23	48	99	117.89	104.78	155.1	90	178	13
LV-S SB 060 C 04	800	04x60	23	48	74	92.82	83.7	124.9	90	237	16
LV-S SB 060 C 06	1000	06x60	36	80	49	60.72	67.35	90.9	90	352	19
LV-S SB 080 C	1250	06x80	53	117	36.46	47.80	66.36	76.13	110	472	25
LV-S SB 100 C	1400	06x100	53	117	32.3	40.12	61.12	75.16	130	592	31
LV-S SB 120 C	1600	06x120	65	143	29.17	34.29	56.7	67.34	150	712	37
LV-S SB 160 C	2000	06x160	65	143	18.23	20.95	27.3	34.82	190	952	47
LV-S SB 200 C	2500	06x200	80	176	14.58	16.1	23.55	28.37	230	1192	56
LV-S SB 240 C	3200	06x240	80	176	12.15	14.61	16.64	22.22	270	1432	66

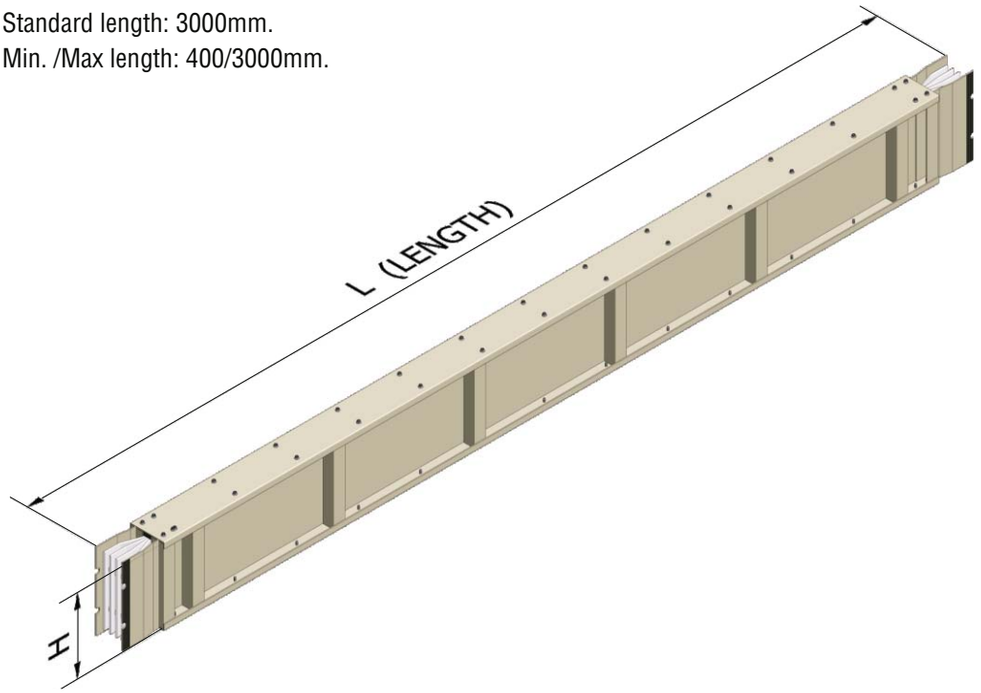


Type DB	In A	Conductor mm	Ik (1sec.) kA	Ik (dyn.) kA	R_{20} µΩ	R_t µΩ	X_t µΩ	Z_t µΩ	H mm	Area mm^2	Weight Kg/M
LV-S DB 160 C	4000	06x160	80	176	9.11	10.99	15.71	21.19	420	1904	96
LV-S DB 200 C	5000	06x200	80	176	7.29	7.77	16.39	19.19	500	2384	114
LV-S DB 240 C	6300	06x240	80	176	6.08	6.79	16.02	18.13	580	2864	134

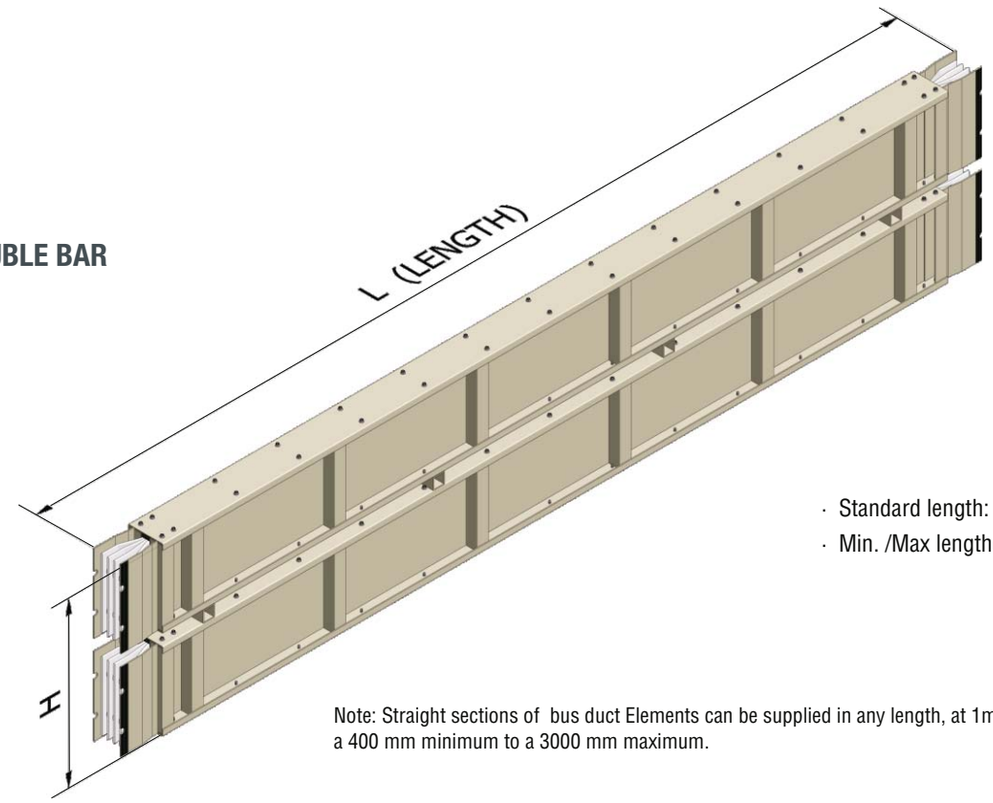
STRAIGHT ELEMENT

SINGLE BAR

- Standard length: 3000mm.
- Min. /Max length: 400/3000mm.



DOUBLE BAR



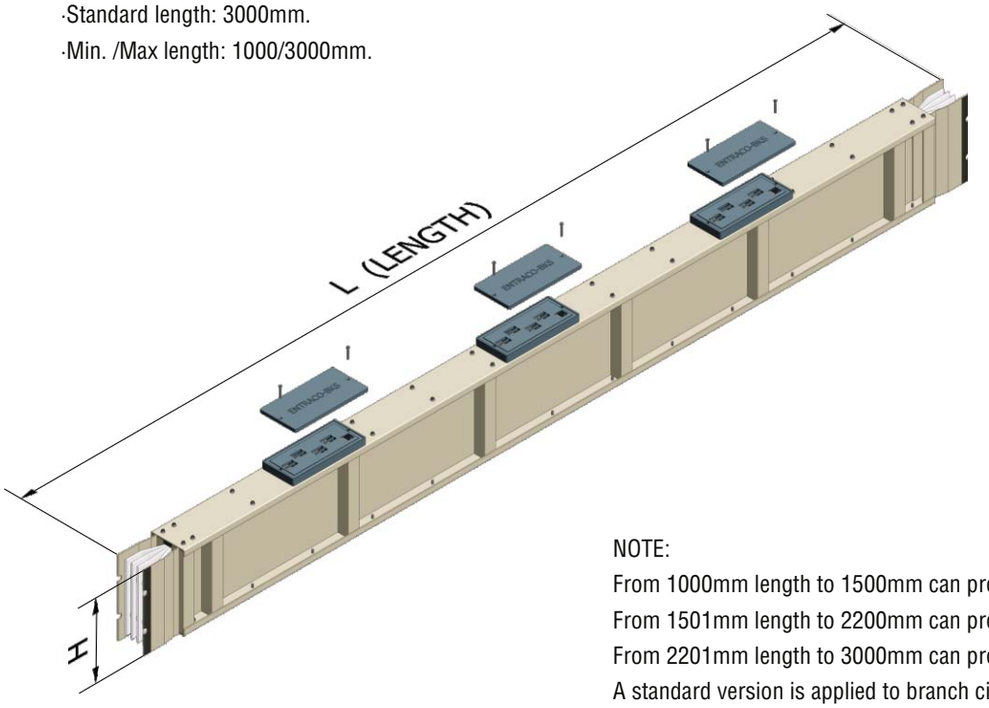
- Standard length: 3000mm.
- Min. /Max length: 400/3000mm.

Note: Straight sections of bus duct Elements can be supplied in any length, at 1mm increments, from a 400 mm minimum to a 3000 mm maximum.

STRAIGHT ELEMENT WITH PROVISION FOR PLUG-IN BOX

The plug-in outlet and cover are made from a durable, high strength, polycarbonate material and The plug-in cover is designed to protect the contact from live parts and prevent the ingress of dirt, dust or moisture.

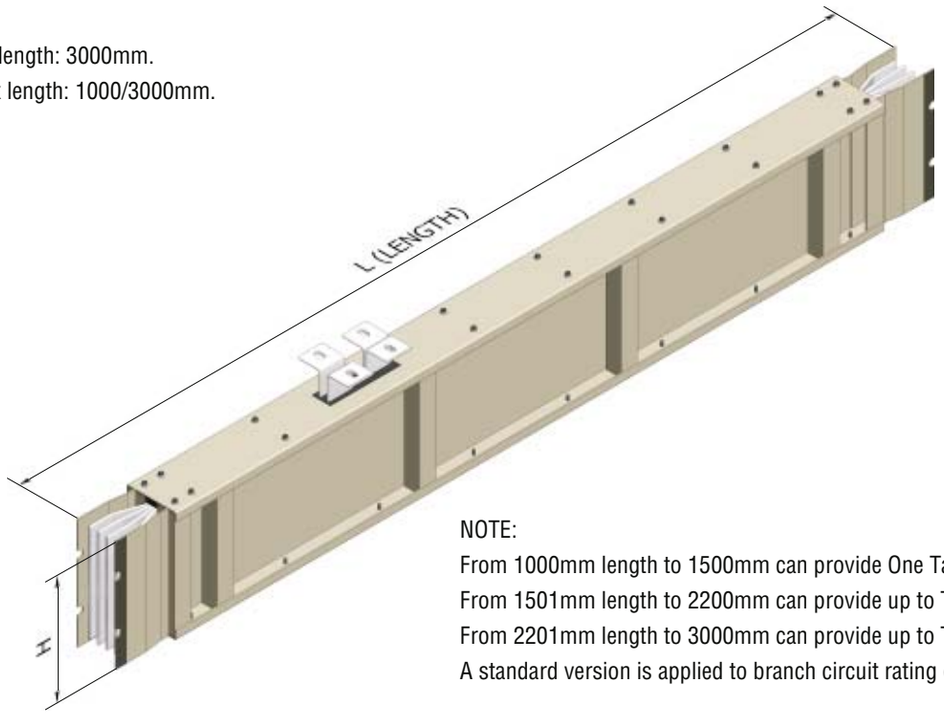
·Standard length: 3000mm.
·Min. /Max length: 1000/3000mm.



NOTE:
From 1000mm length to 1500mm can provide One Plug-In Box
From 1501mm length to 2200mm can provide up to Two Plug-In Box
From 2201mm length to 3000mm can provide up to Three Plug-In Box
A standard version is applied to branch circuit rating of 630 A and below.

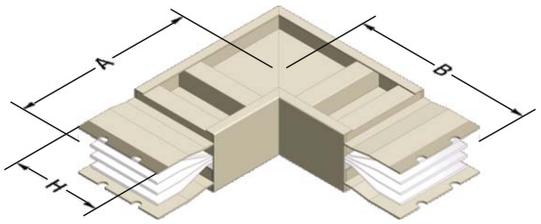
STRAIGHT ELEMENT WITH FIX TYPE TAP-OFF

·Standard length: 3000mm.
·Min. /Max length: 1000/3000mm.



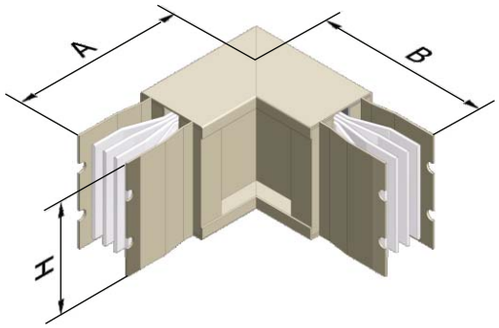
NOTE:
From 1000mm length to 1500mm can provide One Tap-off
From 1501mm length to 2200mm can provide up to Two Tap-off
From 2201mm length to 3000mm can provide up to Three Tap-off
A standard version is applied to branch circuit rating of 630A and below.

FLAT ELBOW



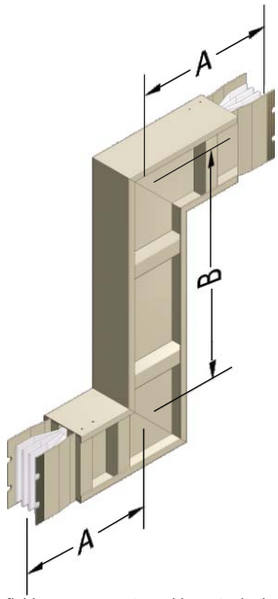
		ALUMINIUM					COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B		HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	350	350	260	260						
630	90	350	350	260	260		90	350	350	260	260
800	90	350	350	260	260		90	350	350	260	260
1000	110	350	350	270	270		90	350	350	260	260
1250	130	350	350	280	280		110	350	350	270	270
1400	150	350	350	290	290		130	350	350	280	280
1600	190	350	350	310	310		150	350	350	290	290
2000	230	350	350	330	330		190	350	350	310	310
2500	270	350	350	350	350		230	350	350	330	330
3200	420	500	500	415	415		270	350	350	350	350
4000	500	500	500	455	455		420	500	500	415	415
5000	580	500	500	495	495		500	500	500	455	455
6300							580	500	500	495	495

DIHEDRAL ELBOW



		ALUMINIUM					COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B		HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	300	300	285	285						
630	90	300	300	285	285		90	300	300	285	285
800	90	300	300	285	285		90	300	300	285	285
1000	110	300	300	285	285		90	300	300	285	285
1250	130	300	300	285	285		110	300	300	285	285
1400	150	300	300	285	285		130	300	300	285	285
1600	190	300	300	285	285		150	300	300	285	285
2000	230	300	300	285	285		190	300	300	285	285
2500	270	300	300	285	285		230	300	300	285	285
3200	420	300	300	285	285		270	300	300	285	285
4000	500	300	300	285	285		420	300	300	285	285
5000	580	300	300	285	285		500	300	300	285	285
6300							580	300	300	285	285

DOUBLE FLAT ELBOW



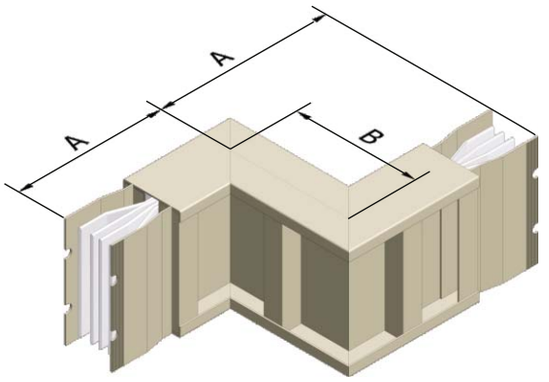
		ALUMINIUM					COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B		HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	500	500	260	125						
630	90	500	500	260	125		90	500	500	260	125
800	90	500	500	260	125		90	500	500	260	125
1000	110	500	500	270	135		90	500	500	260	125
1250	130	500	500	280	145		110	500	500	270	135
1400	150	500	500	290	155		130	500	500	280	145
1600	190	500	500	310	175		150	500	500	290	155
2000	230	500	500	330	195		190	500	500	310	175
2500	270	500	500	350	215		230	500	500	330	195
3200	420	500	500	415	280		270	500	500	350	215
4000	500	500	500	455	320		420	500	500	415	280
5000	580	500	500	495	360		500	500	500	455	320
6300							580	500	500	495	360

Note :
When making field measurements and layouts, it should be remembered that the dimensions are given from the centre line.

all dimensions are in mm

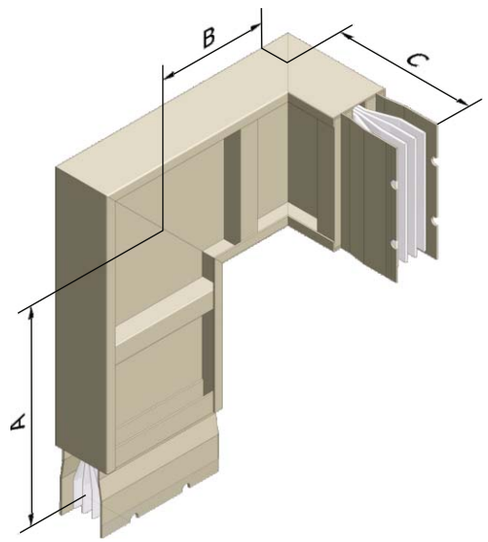
DOUBLE DIHEDRAL ELBOW

	ALUMINIUM					COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B	HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	500	500	285	100					
630	90	500	500	285	100	90	500	500	285	100
800	90	500	500	285	100	90	500	500	285	100
1000	110	500	500	285	100	90	500	500	285	100
1250	130	500	500	285	100	110	500	500	285	100
1400	150	500	500	285	100	130	500	500	285	100
1600	190	500	500	285	100	150	500	500	285	100
2000	230	500	500	285	100	190	500	500	285	100
2500	270	500	500	285	100	230	500	500	285	100
3200	420	500	500	285	100	270	500	500	285	100
4000	500	500	500	285	100	420	500	500	285	100
5000	580	500	500	285	100	500	500	500	285	100
6300						580	500	500	285	100



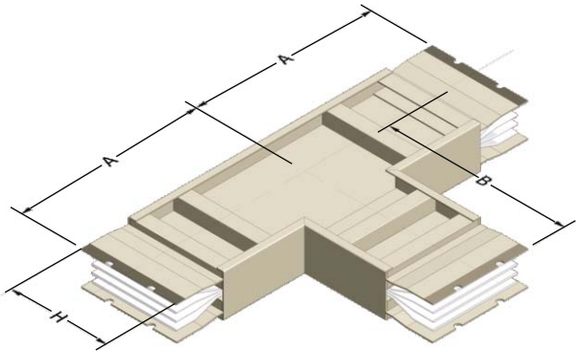
COMBINATION ELBOW (FLAT+DIHEDRAL)

	ALUMINIUM							COPPER						
In A	HEIGHT H	STANDARD A	B	C	MINIMUM A	B	C	HEIGHT H	STANDARD A	B	C	MINIMUM A	B	C
400	90	500	500	500	260	125	285							
630	90	500	500	500	260	125	285	90	500	500	500	260	125	285
800	90	500	500	500	260	125	285	90	500	500	500	260	125	285
1000	110	500	500	500	270	135	285	90	500	500	500	260	125	285
1250	130	500	500	500	280	145	285	110	500	500	500	270	135	285
1400	150	500	500	500	290	155	285	130	500	500	500	280	145	285
1600	190	500	500	500	310	175	285	150	500	500	500	290	155	285
2000	230	500	500	500	330	195	285	190	500	500	500	310	175	285
2500	270	500	500	500	350	215	285	230	500	500	500	330	195	285
3200	420	500	500	500	415	280	400	270	500	500	500	350	215	285
4000	500	500	500	500	455	320	420	420	500	500	500	415	280	400
5000	580	500	500	500	495	360	440	500	500	500	500	455	320	420
6300								580	500	500	500	495	360	440



FLAT 'T'

	ALUMINIUM					COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B	HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	350	350	260	260					
630	90	350	350	260	260	90	350	350	260	260
800	90	350	350	260	260	90	350	350	260	260
1000	110	350	350	270	270	90	350	350	260	260
1250	130	350	350	280	280	110	350	350	270	270
1400	150	350	350	290	290	130	350	350	280	280
1600	190	350	350	310	310	150	350	350	290	290
2000	230	350	350	330	330	190	350	350	310	310
2500	270	350	350	350	350	230	350	350	330	330
3200	420	500	500	415	415	270	350	350	350	350
4000	500	500	500	455	455	420	500	500	415	415
5000	580	500	500	495	495	500	500	500	455	455
6300						580	500	500	495	495



Note :
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all dimensions are in mm

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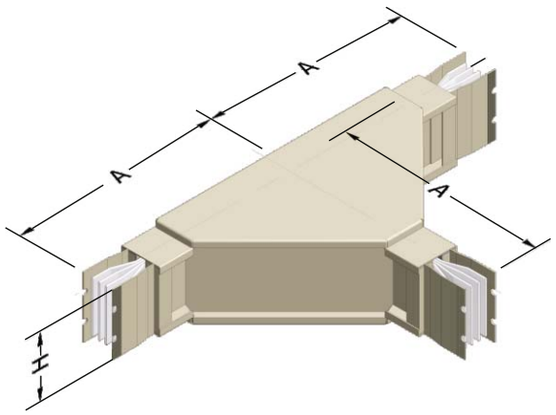
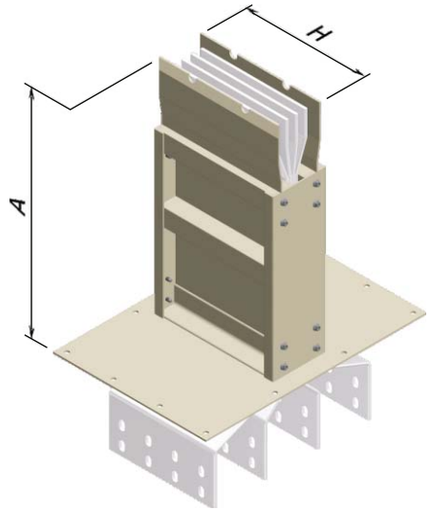


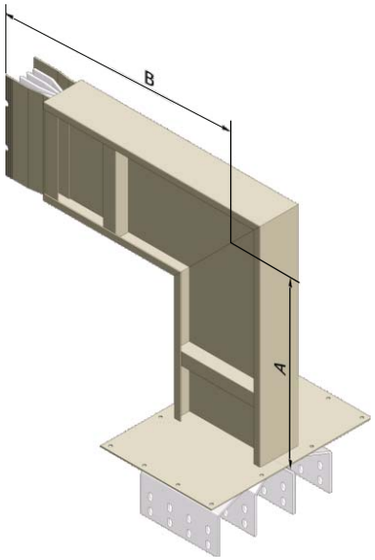
DIHEDRAL 'T'

		ALUMINIUM			COPPER		
In A	HEIGHT H	STANDARD A	MINIMUM A		HEIGHT H	STANDARD A	MINIMUM A
400	90	600	550				
630	90	600	550		90	600	550
800	90	600	550		90	600	550
1000	110	600	550		90	600	550
1250	130	600	550		110	600	550
1400	150	600	550		130	600	550
1600	190	600	550		150	600	550
2000	230	600	550		190	600	550
2500	270	600	550		230	600	550
3200	420	600	550		270	600	550
4000	500	600	550		420	600	550
5000	580	600	550		500	600	550
6300					580	600	550



STRAIGHT TERMINAL ELEMENT

		ALUMINIUM			COPPER		
In A	HEIGHT H	STANDARD A	MINIMUM A		HEIGHT H	STANDARD A	MINIMUM A
400	90	300	260				
630	90	300	260		90	300	260
800	90	300	260		90	300	260
1000	110	300	260		90	300	260
1250	130	300	260		110	300	260
1400	150	300	260		130	300	260
1600	190	300	260		150	300	260
2000	230	300	260		190	300	260
2500	270	300	260		230	300	260
3200	420	300	260		270	300	260
4000	500	300	260		420	300	260
5000	580	300	260		500	300	260
6300					580	300	260



FLAT ELBOW + TERMINAL ELEMENT

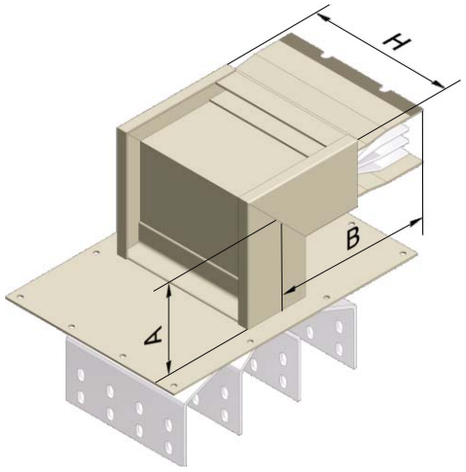
		ALUMINIUM				COPPER				
In A	HEIGHT H	STANDARD A	B	MINIMUM A	B	HEIGHT H	STANDARD A	B	MINIMUM A	B
400	90	350	350	125	260					
630	90	350	350	125	260	90	350	350	125	260
800	90	350	350	125	260	90	350	350	125	260
1000	110	350	350	135	270	90	350	350	125	260
1250	130	350	350	145	280	110	350	350	135	270
1400	150	350	350	155	290	130	350	350	145	280
1600	190	350	350	175	310	150	350	350	155	290
2000	230	350	350	195	330	190	350	350	175	310
2500	270	350	350	215	350	230	350	350	195	330
3200	420	500	500	280	415	270	350	350	215	350
4000	500	500	500	320	455	420	500	500	280	415
5000	580	500	500	360	495	500	500	500	320	455
6300						580	500	500	360	495

Note :
When making field measurements and layouts, it should be remembered that the dimensions are given from the centre line.

all dimensions are in mm

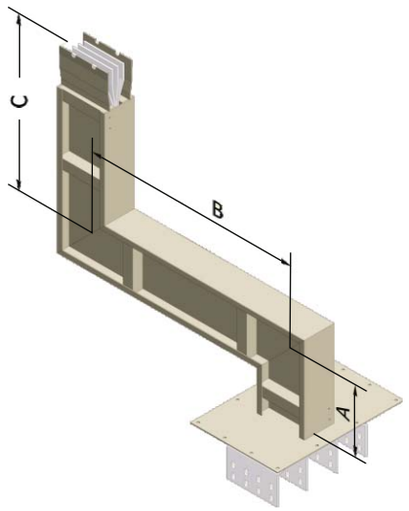
DIHEDRAL ELBOW + TERMINAL ELEMENT

	ALUMINIUM					COPPER				
In	HEIGHT	STANDARD		MINIMUM		HEIGHT	STANDARD		MINIMUM	
A	H	A	B	A	B	H	A	B	A	B
400	90	300	300	100	285					
630	90	300	300	100	285	90	300	300	100	285
800	90	300	300	100	285	90	300	300	100	285
1000	110	300	300	100	285	90	300	300	100	285
1250	130	300	300	100	285	110	300	300	100	285
1400	150	300	300	100	285	130	300	300	100	285
1600	190	300	300	100	285	150	300	300	100	285
2000	230	300	300	100	285	190	300	300	100	285
2500	270	300	300	100	285	230	300	300	100	285
3200	420	300	300	100	285	270	300	300	100	285
4000	500	300	300	100	285	420	300	300	100	285
5000	580	300	300	100	285	500	300	300	100	285
6300						580	300	300	100	285



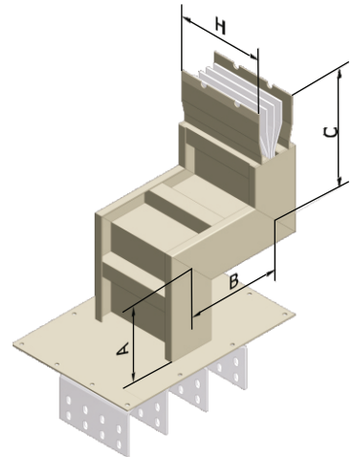
DOUBLE FLAT ELBOW + TERMINAL ELEMENT

	ALUMINIUM							COPPER						
In	HEIGHT	STANDARD			MINIMUM			HEIGHT	STANDARD			MINIMUM		
A	mm	A	B	C	A	B	C	mm	A	B	C	A	B	C
400	90	500	500	500	125	125	260							
630	90	500	500	500	125	125	260	90	500	500	500	125	125	260
800	90	500	500	500	125	125	260	90	500	500	500	125	125	260
1000	110	500	500	500	135	135	270	90	500	500	500	125	125	260
1250	130	500	500	500	145	145	280	110	500	500	500	135	135	270
1400	150	500	500	500	155	155	290	130	500	500	500	145	145	280
1600	190	500	500	500	175	175	310	150	500	500	500	155	155	290
2000	230	500	500	500	195	195	330	190	500	500	500	175	175	310
2500	270	500	500	500	215	215	350	230	500	500	500	195	195	330
3200	420	500	500	500	280	280	415	270	500	500	500	215	215	350
4000	500	500	500	500	320	320	455	420	500	500	500	280	280	415
5000	580	500	500	500	360	360	495	500	500	500	500	320	320	455
6300								580	500	500	500	360	360	495



DOUBLE DIHEDRAL ELBOW + TERMINAL ELEMENT

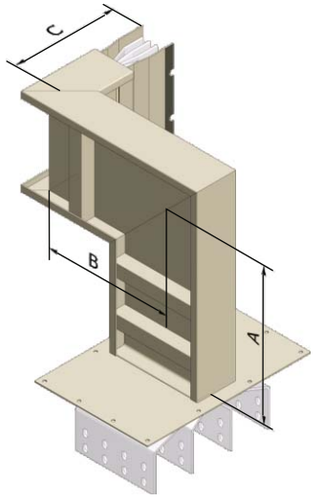
	ALUMINIUM							COPPER						
In	HEIGHT	STANDARD			MINIMUM			HEIGHT	STANDARD			MINIMUM		
A	mm	A	B	C	A	B	C	mm	A	B	C	A	B	C
400	90	500	500	500	100	100	285							
630	90	500	500	500	100	100	285	90	500	500	500	100	100	285
800	90	500	500	500	100	100	285	90	500	500	500	100	100	285
1000	110	500	500	500	100	100	285	90	500	500	500	100	100	285
1250	130	500	500	500	100	100	285	110	500	500	500	100	100	285
1400	150	500	500	500	100	100	285	130	500	500	500	100	100	285
1600	190	500	500	500	100	100	285	150	500	500	500	100	100	285
2000	230	500	500	500	100	100	285	190	500	500	500	100	100	285
2500	270	500	500	500	100	100	285	230	500	500	500	100	100	285
3200	420	500	500	500	100	100	285	270	500	500	500	100	100	285
4000	500	500	500	500	100	100	285	420	500	500	500	100	100	285
5000	580	500	500	500	100	100	285	500	500	500	500	100	100	285
6300								580	500	500	500	100	100	285



Note :
When making field measurements and layouts, it should be remembered that the dimensions are given from the centre line.

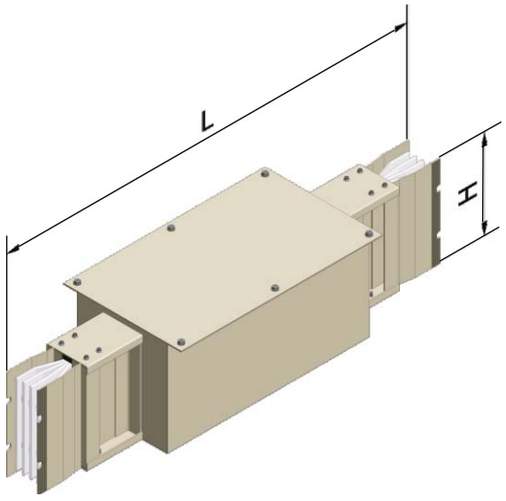
all dimensions are in mm

IP55 - SANDWICH BUS DUCT



COMBINATION ELBOW + TERMINAL ELEMENT

	ALUMINIUM							COPPER						
In	HEIGHT	STANDARD			MINIMUM			HEIGHT	STANDARD			MINIMUM		
A	mm	A	B	C	A	B	C	mm	A	B	C	A	B	C
400	90	500	500	500	125	125	285							
630	90	500	500	500	125	125	285	90	500	500	500	125	125	285
800	90	500	500	500	125	125	285	90	500	500	500	125	125	285
1000	110	500	500	500	135	135	285	90	500	500	500	125	125	285
1250	130	500	500	500	145	145	285	110	500	500	500	135	135	285
1400	150	500	500	500	155	155	285	130	500	500	500	145	145	285
1600	190	500	500	500	175	175	285	150	500	500	500	155	155	285
2000	230	500	500	500	195	195	285	190	500	500	500	175	175	285
2500	270	500	500	500	215	215	285	230	500	500	500	195	195	285
3200	420	500	500	500	280	280	400	270	500	500	500	215	215	285
4000	500	500	500	500	320	320	420	420	500	500	500	280	280	400
5000	580	500	500	500	360	360	440	500	500	500	500	320	320	420
6300								580	500	500	500	360	360	440

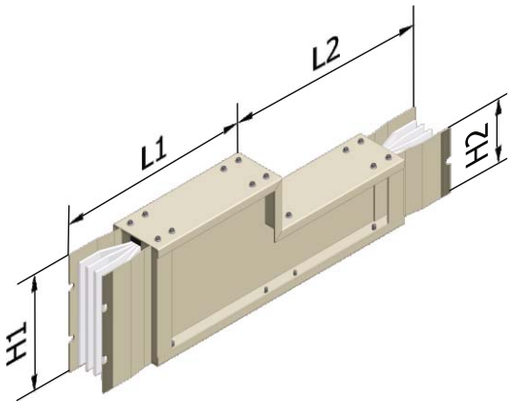


EXPANSION ELEMENT

- Standard length: 1000mm.
- Min. /Max length: 1000/3000mm.

Expansion joints must be used wherever a run of bus duct crosses an expansion joint of a building. It is recommended They should also be installed in the center of extremely long straight runs of bus duct one every 60 m for copper or one every 40 m for aluminum. The use of expansion joints should be engineered for individual installations.

RATING REDUCER ELEMENT



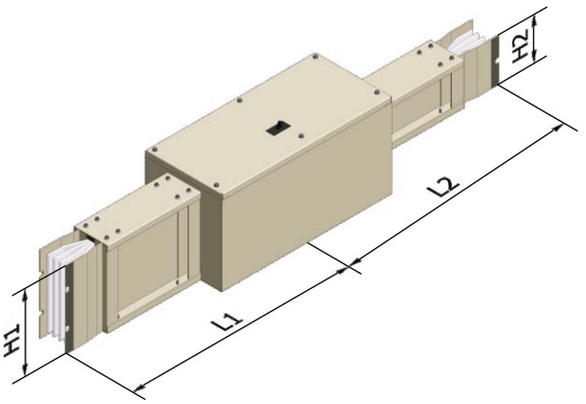
- Standard length: 1000mm.
- Min. /Max length: 600/3000mm.

Note :
When making field measurements and layouts, it should be remembered that the dimensions are given from the centre line.

all dimensions are in mm

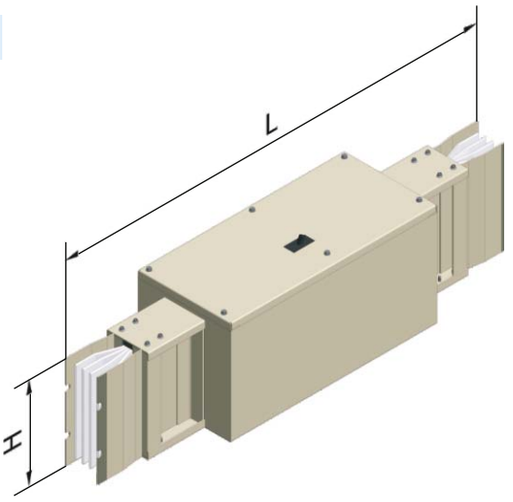
RATING REDUCER ELEMENT WITH DISCONNECTING SWITCH

- Standard length: 1000mm.
- Min. /Max length: 1000/3000mm.



ISOLATOR ELEMENT

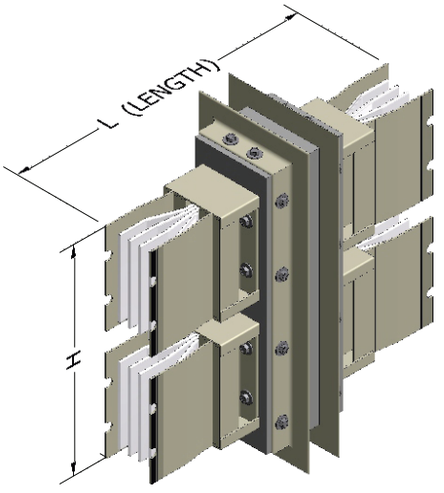
- Standard length: 1000mm.
- Min. /Max length: 1000/3000mm.



WALL/ROOF FLANGE ELEMENT

- Min. /Max length: 600/3000mm.

. Facilitate fire barrier as well as wall/floor flange.



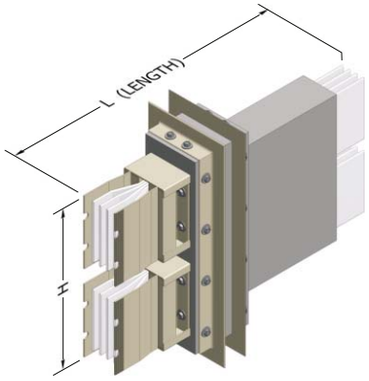
Note :
When making field measurements and layouts, it should be remembered that the dimensions are given from the centre line.

An Indo-Swiss Venture

ENTRACO BKS

IP55 - SANDWICH BUS DUCT

Unique Elements Available Only With Entraco Bks

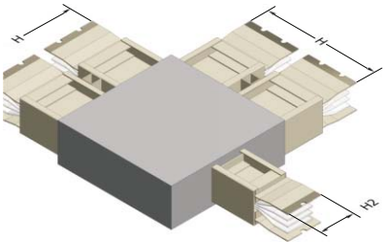


WALL FLANGE ELEMENT (IP68 to IP55)

· Min. /Max length: 600/3000mm.

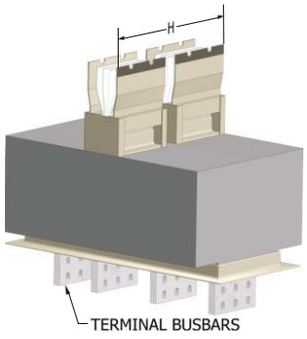
Used to convert IP68 out door type to IP55 indoor type
hence can deduct on unnecessary project coast
Facilitate fire barrier as well as wall/floor flange.

'T' ELEMENT + RATING REDUCER



Length at each axis min: 600 & max: 1000

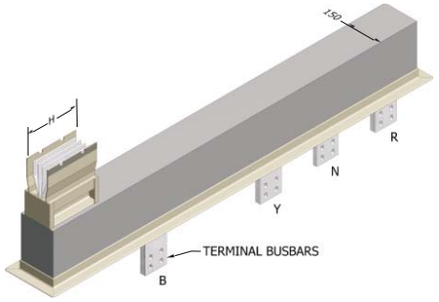
Compact Type 'T' element can use where the power requirements are reducing onwards



COMPACT TYPE TERMINAL ELEMENT

· Min. /Max length: 300/600mm.

Can easily accommodate on compact type equipment flange
Facilitate fire barrier as well as floor flange at terminal end of bottom entry type of equipments
Can use at terminal end of liquid type substation transformer

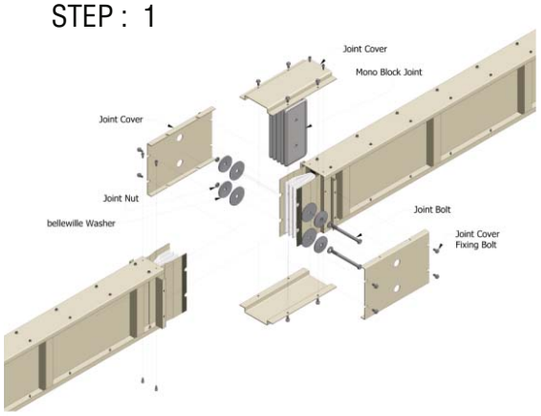


DRY TYPE TRANSFORMER TERMINAL ELEMENT

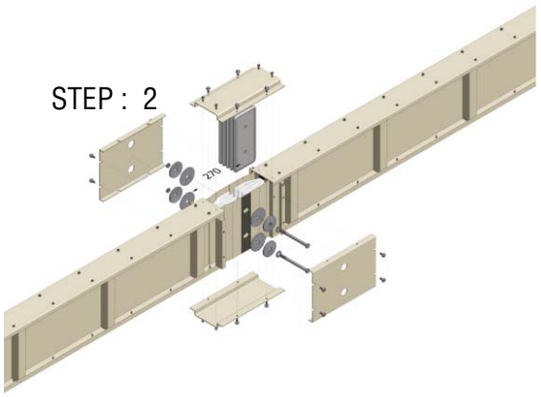
Best solution for connecting dry type transformer to our Busduct

MONO-BLOCK JOINT INSTALLATION PROCEDURE

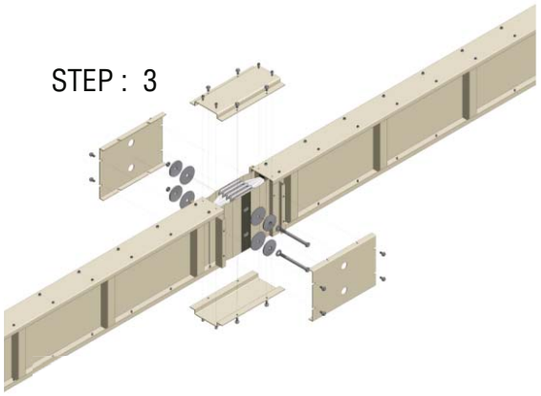
STEP : 1



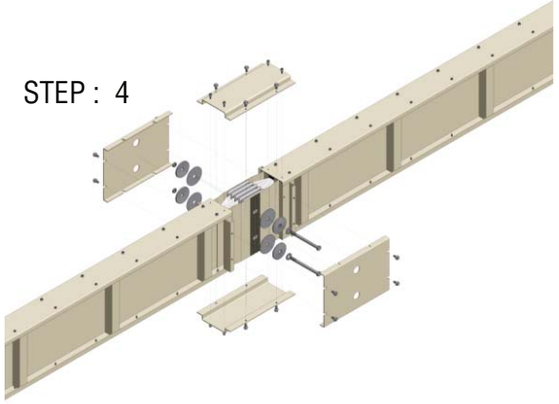
STEP : 2



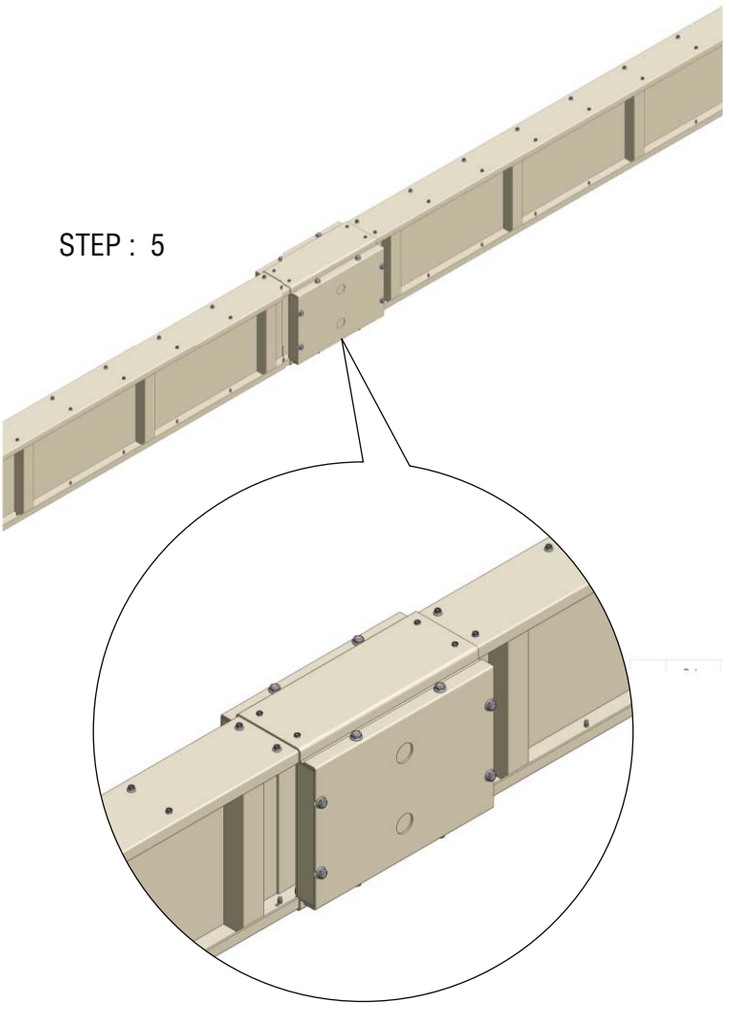
STEP : 3



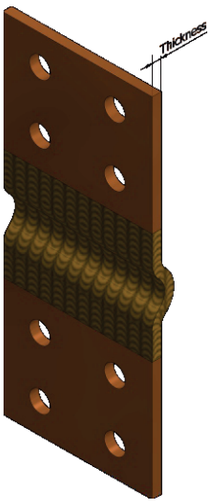
STEP : 4

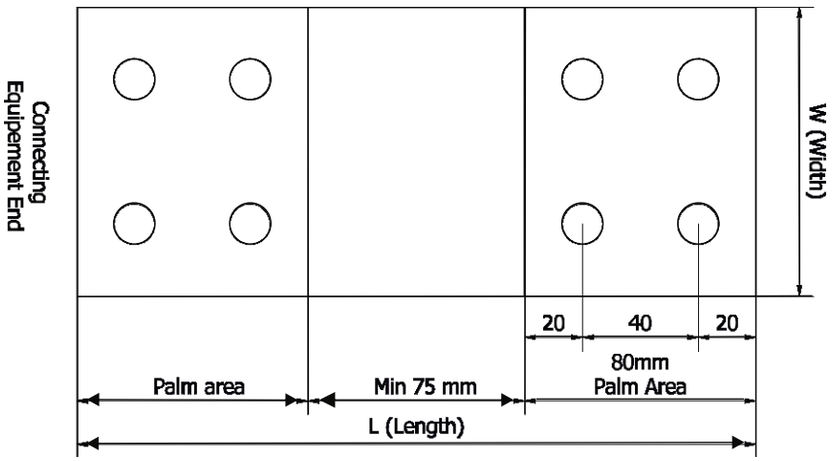


STEP : 5



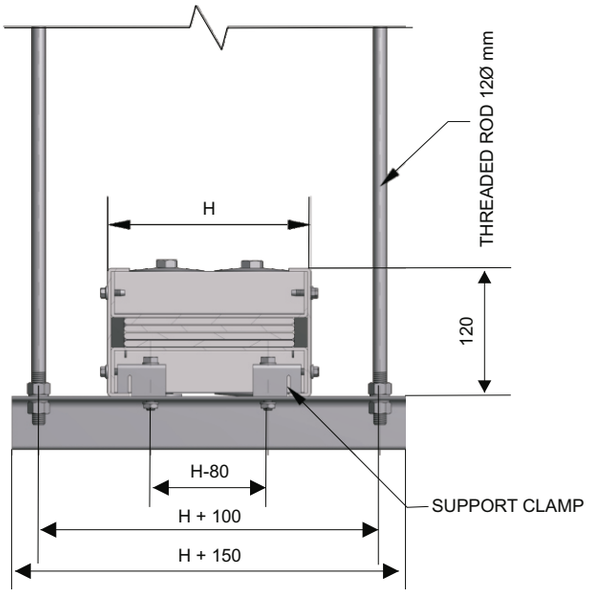
FLEXIBLE CONNECTORS



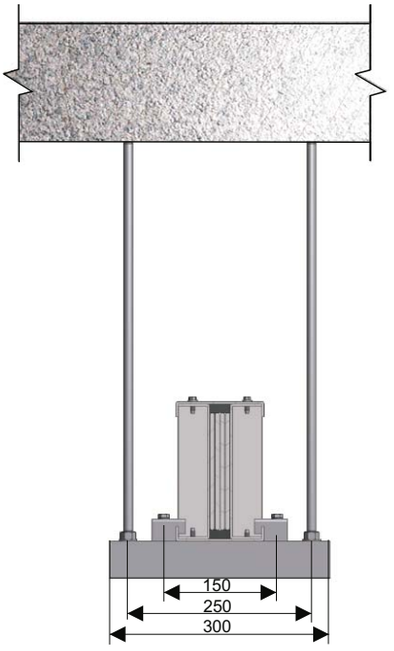


Note: Number of holes may vary accordingly the equipment hole dimension

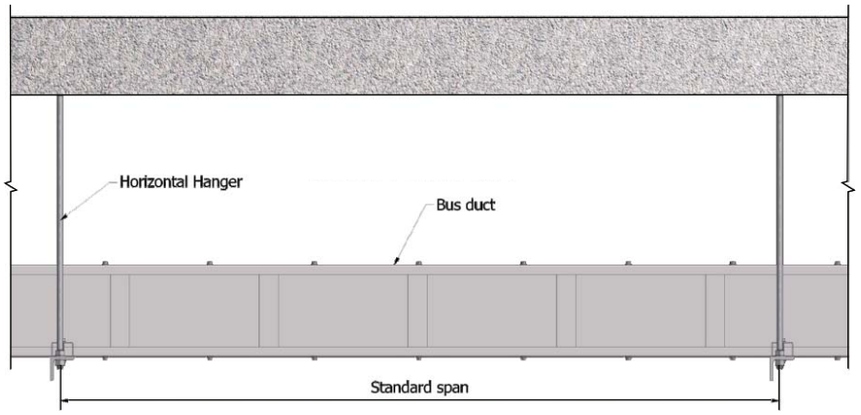
BUS DUCT SUPPORTS



FLAT WISE INSTALLATION



EDGE WISE INSTALLATION



IP55 - SANDWICH BUS DUCT

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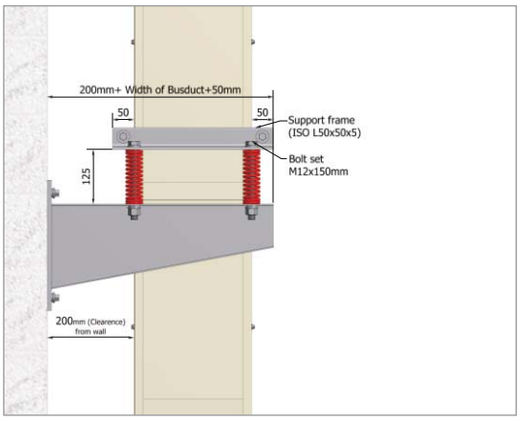
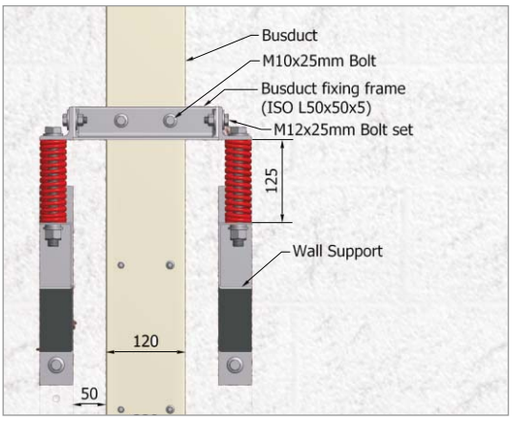
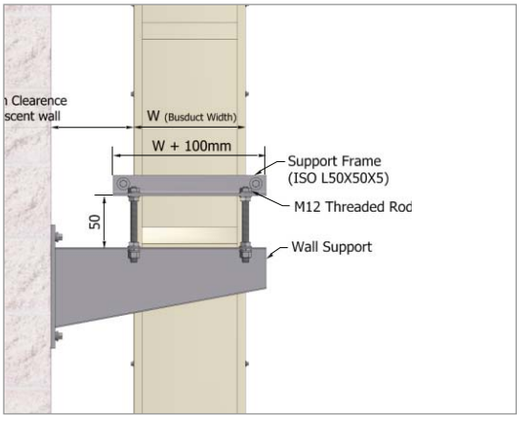
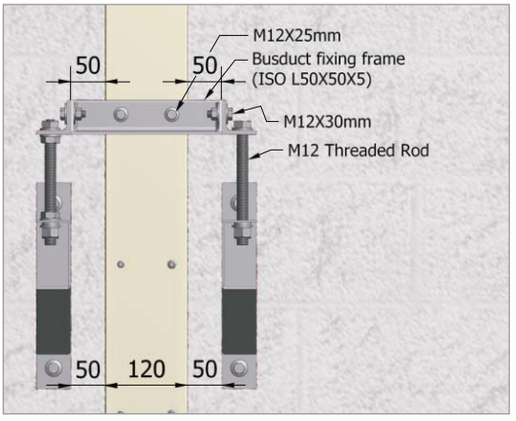
ENTRACO BKS



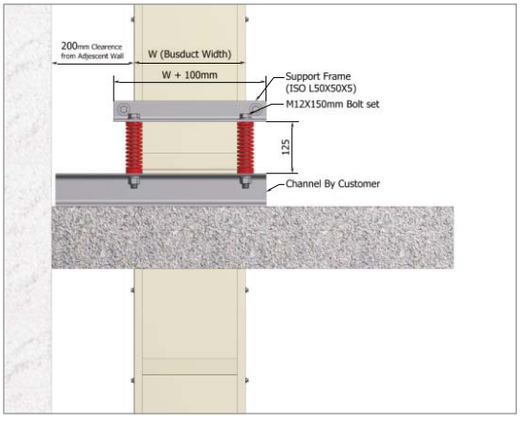


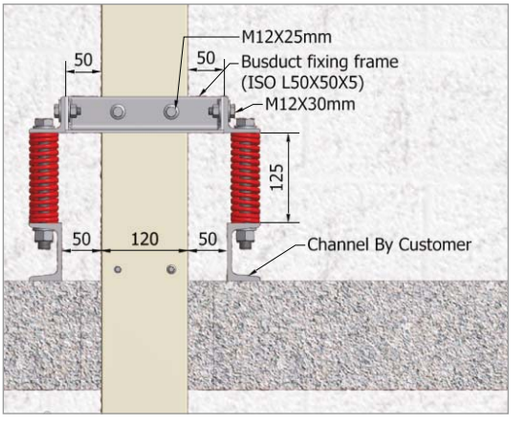
VERTICAL WALL SUPPORT (WITH SPRING)



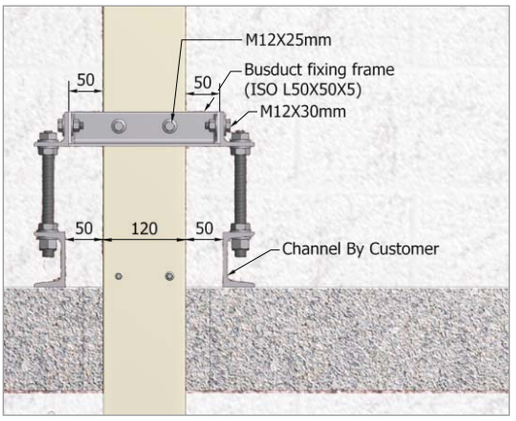


VERTICAL WALL SUPPORT (WITHOUT SPRING)





VERTICAL FLOOR SUPPORT (WITH SPRING)



VERTICAL FLOOR SUPPORT (WITHOUT SPRING)

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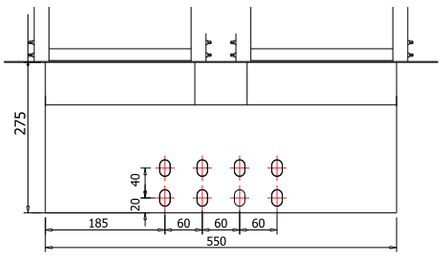
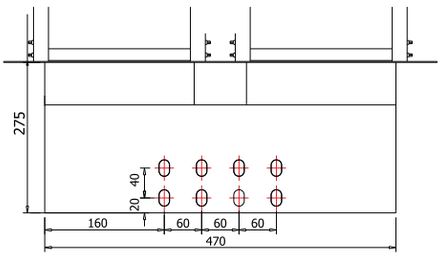
ENTRACO BKS

IP55 - SANDWICH BUS DUCT

TERMINAL BUSBAR DRILL DETAIL



5000A FOR ALUMINIUM,
6300A FOR COPPER



4000A FOR ALUMINIUM,
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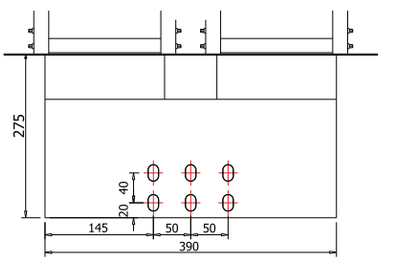

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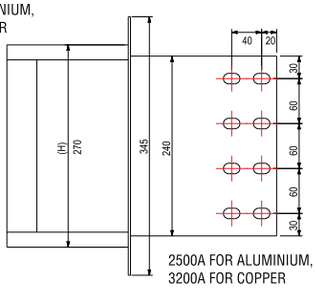

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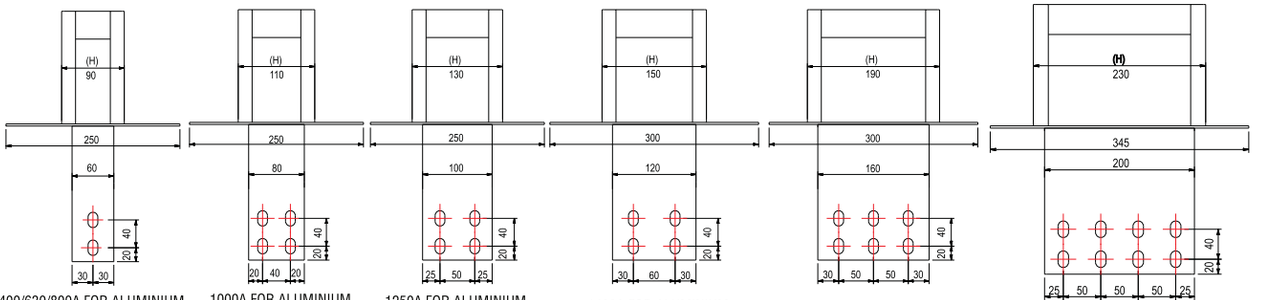


400/630/800A FOR ALUMINIUM,
630/800/1000A FOR COPPER

1000A FOR ALUMINIUM,
1250A FOR COPPER

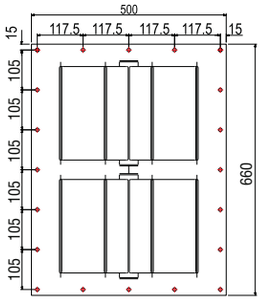
1250A FOR ALUMINIUM,
1400A FOR COPPER

1400A FOR ALUMINIUM,
1600A FOR COPPER

1600A FOR ALUMINIUM,
2000A FOR COPPER

2000A FOR ALUMINIUM,
2500A FOR COPPER

TERMINAL BASE PLATE DRILL DETAIL



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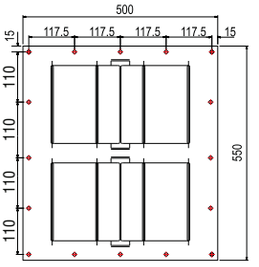

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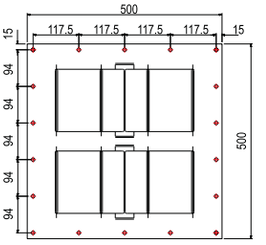

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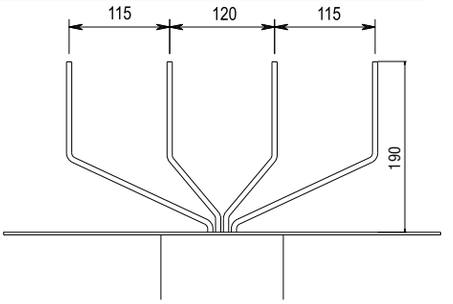
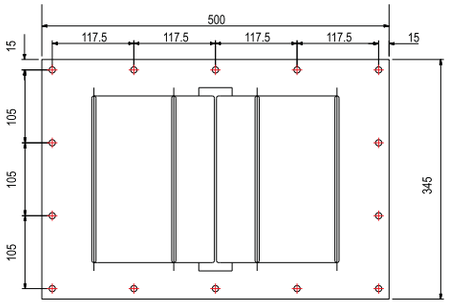
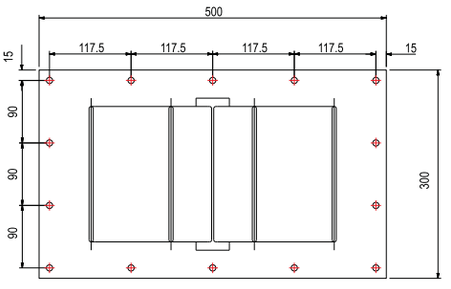


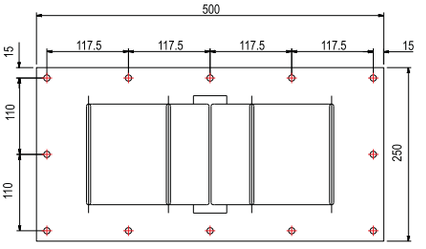
BUSBAR DISTANCE IN
STANDARD VERSION



2000/2500A FOR ALUMINIUM,
2500/3200A FOR COPPER



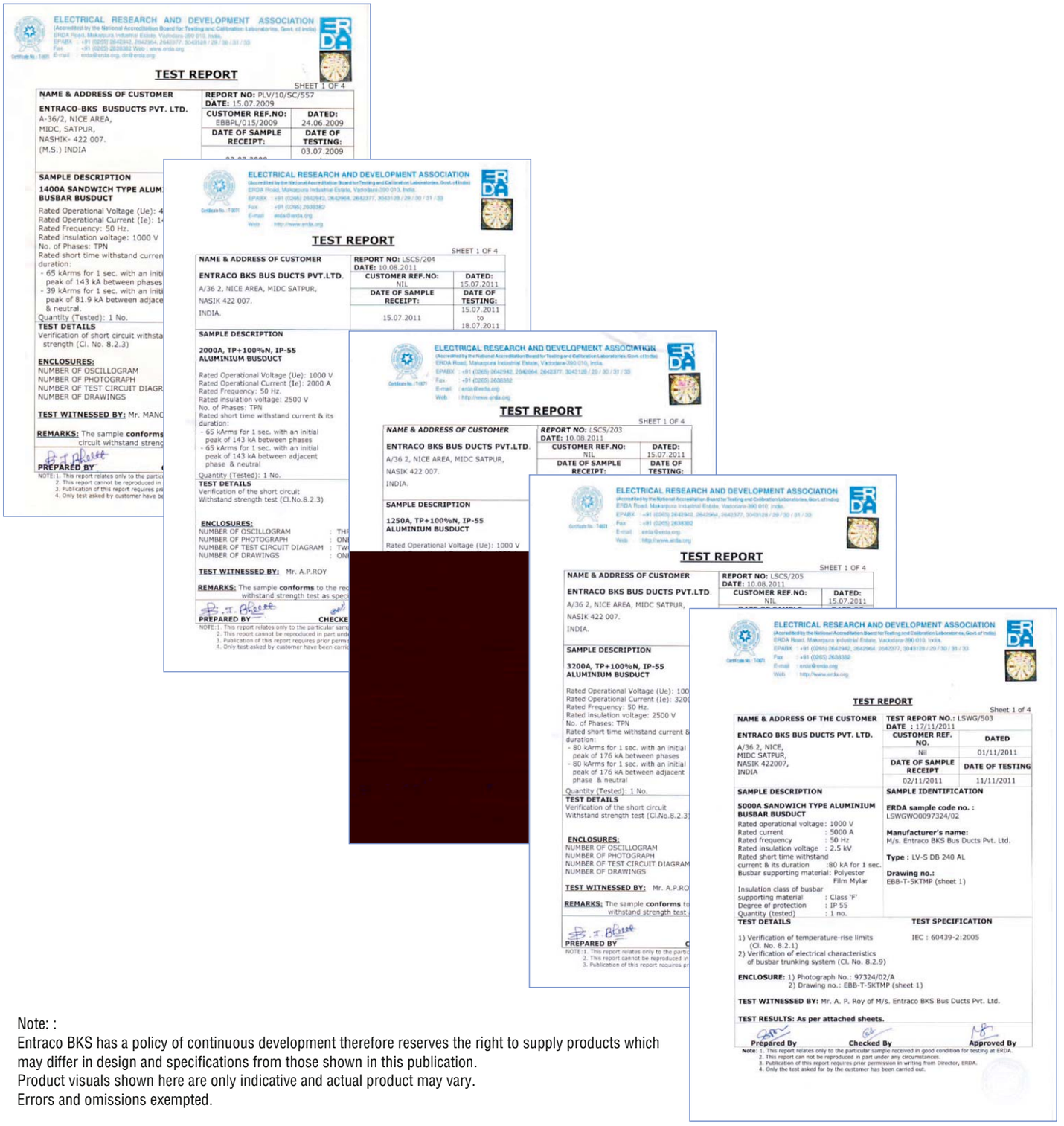
1400/1600A FOR ALUMINIUM,
1600/2000A FOR COPPER



400/630/800/1000/1250A FOR ALUMINIUM,
630/800/1000/1250/1400A FOR COPPER

CERTIFICATIONS

Entraco BKS busducts are type tested and confirms IEC60439-2:



ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 4

NAME & ADDRESS OF CUSTOMER

ENTRACO-BKS BUSDUCTS PVT. LTD.
A-36/2, NICE AREA,
MIDC, SATPUR,
NASHIK- 422 007.
(M.S.) INDIA

REPORT NO: PLV/10/SC/557
DATE: 15.07.2009

CUSTOMER REF.NO:	DATED:
EBBPL/015/2009	24.06.2009
DATE OF SAMPLE RECEIPT:	DATE OF TESTING:
	03.07.2009

SAMPLE DESCRIPTION

1400A SANDWICH TYPE ALUM
BUSBAR BUSDUCT

Rated Operational Voltage (Ue): 4
Rated Operational Current (Ie): 1
Rated Frequency: 50 Hz.
Rated insulation voltage: 1000 V
No. of Phases: TPN
Rated short time withstand curren
duration:
- 65 kArms for 1 sec. with an initi
peak of 143 kA between phases
- 39 kArms for 1 sec. with an initi
peak of 81.9 kA between adjace
& neutral.

Quantity (Tested): 1 No.

TEST DETAILS
Verification of short circuit withsta
strength (Cl. No. 8.2.3)

ENCLOSURES:
NUMBER OF OSCILLOGRAM
NUMBER OF PHOTOGRAPH
NUMBER OF TEST CIRCUIT DIAGR
NUMBER OF DRAWINGS

TEST WITNESSED BY: Mr. MANC

REMARKS: The sample conforms
circuit withstand streng

PREPARED BY

NOTE:1. This report relates only to the partic
2. This report cannot be reproduced in
3. Publication of this report requires pr
4. Only test asked by customer have be

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 4

NAME & ADDRESS OF CUSTOMER

ENTRACO BKS BUS DUCTS PVT.LTD.
A/36 2, NICE AREA, MIDC SATPUR,
NASIK 422 007.
INDIA.

REPORT NO: LSCS/204
DATE: 10.08.2011

CUSTOMER REF.NO:	DATED:
NIL	15.07.2011
DATE OF SAMPLE RECEIPT:	DATE OF TESTING:
15.07.2011	15.07.2011 to 18.07.2011

SAMPLE DESCRIPTION

2000A, TP+100%N, IP-55
ALUMINIUM BUSDUCT

Rated Operational Voltage (Ue): 1000 V
Rated Operational Current (Ie): 2000 A
Rated Frequency: 50 Hz.
Rated insulation voltage: 2500 V
No. of Phases: TPN
Rated short time withstand current & its duration:
- 65 kArms for 1 sec. with an initial peak of 143 kA between phases
- 65 kArms for 1 sec. with an initial peak of 143 kA between adjacent phase & neutral

Quantity (Tested): 1 No.

TEST DETAILS
Verification of the short circuit
Withstand strength test (Cl.No.8.2.3)

ENCLOSURES:
NUMBER OF OSCILLOGRAM : THR
NUMBER OF PHOTOGRAPH : ONL
NUMBER OF TEST CIRCUIT DIAGRAM : TWL
NUMBER OF DRAWINGS : ONL

TEST WITNESSED BY: Mr. A.P.ROY

REMARKS: The sample conforms to the req
withstand strength test as speci

PREPARED BY CHECKE

NOTE:1. This report relates only to the particular sam
2. This report cannot be reproduced in part und
3. Publication of this report requires prior permi
4. Only test asked by customer have been carri

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 4

NAME & ADDRESS OF CUSTOMER

ENTRACO BKS BUS DUCTS PVT.LTD.
A/36 2, NICE AREA, MIDC SATPUR,
NASIK 422 007.
INDIA.

REPORT NO: LSCS/203
DATE: 10.08.2011

CUSTOMER REF.NO:	DATED:
NIL	15.07.2011
DATE OF SAMPLE RECEIPT:	DATE OF TESTING:

SAMPLE DESCRIPTION

1250A, TP+100%N, IP-55
ALUMINIUM BUSDUCT

Rated Operational Voltage (Ue): 1000 V

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 4

NAME & ADDRESS OF CUSTOMER

ENTRACO BKS BUS DUCTS PVT.LTD.
A/36 2, NICE AREA, MIDC SATPUR,
NASIK 422 007.
INDIA.

REPORT NO: LSCS/205
DATE: 10.08.2011

CUSTOMER REF.NO:	DATED:
NIL	15.07.2011

SAMPLE DESCRIPTION

3200A, TP+100%N, IP-55
ALUMINIUM BUSDUCT

Rated Operational Voltage (Ue): 100
Rated Operational Current (Ie): 320
Rated Frequency: 50 Hz.
Rated insulation voltage: 2500 V
No. of Phases: TPN
Rated short time withstand current &
duration:
- 80 kArms for 1 sec. with an initial peak of 176 kA between phases
- 80 kArms for 1 sec. with an initial peak of 176 kA between adjacent phase & neutral

Quantity (Tested): 1 No.

TEST DETAILS
Verification of the short circuit
Withstand strength test (Cl.No.8.2.3)

ENCLOSURES:
NUMBER OF OSCILLOGRAM
NUMBER OF PHOTOGRAPH
NUMBER OF TEST CIRCUIT DIAGRAM
NUMBER OF DRAWINGS

TEST WITNESSED BY: Mr. A.P.RO

REMARKS: The sample conforms to
withstand strength test

PREPARED BY

NOTE:1. This report relates only to the partic
2. This report cannot be reproduced in
3. Publication of this report requires pr

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

Sheet 1 of 4

NAME & ADDRESS OF THE CUSTOMER

ENTRACO BKS BUS DUCTS PVT. LTD.
A/36 2, NICE,
MIDC SATPUR,
NASIK 422007,
INDIA

TEST REPORT NO.: LSWG/503
DATE : 17/11/2011

CUSTOMER REF. NO.	DATED
Nil	01/11/2011
DATE OF SAMPLE RECEIPT	DATE OF TESTING
02/11/2011	11/11/2011

SAMPLE DESCRIPTION

5000A SANDWICH TYPE ALUMINIUM BUSBAR BUSDUCT

Rated operational voltage : 1000 V
Rated current : 5000 A
Rated frequency : 50 Hz
Rated insulation voltage : 2.5 kV
Rated short time withstand current & its duration :80 kA for 1 sec.
Busbar supporting material: Polyester Film Mylar
Insulation class of busbar supporting material : Class 'F'
Degree of protection : IP 55
Quantity (tested) : 1 no.

SAMPLE IDENTIFICATION

ERDA sample code no. :
LSWGWO0097324/02

Manufacturer's name:
M/s. Entraco BKS Bus Ducts Pvt. Ltd.

Type : LV-S DB 240 AL

Drawing no.:
EBB-T-5KTMP (sheet 1)

TEST DETAILS

1) Verification of temperature-rise limits (Cl. No. 8.2.1)
2) Verification of electrical characteristics of busbar trunking system (Cl. No. 8.2.9)

TEST SPECIFICATION

IEC : 60439-2:2005

ENCLOSURE: 1) Photograph No.: 97324/02/A
2) Drawing no.: EBB-T-5KTMP (sheet 1)

TEST WITNESSED BY: Mr. A. P. Roy of M/s. Entraco BKS Bus Ducts Pvt. Ltd.

TEST RESULTS: As per attached sheets.

Prepared By Checked By Approved By

Note: 1. This report relates only to the particular sample received in good condition for testing at ERDA.
2. This report can not be reproduced in part under any circumstances.
3. Publication of this report requires prior permission in writing from Director, ERDA.
4. Only the test asked for by the customer has been carried out.

Note: :
Entraco BKS has a policy of continuous development therefore reserves the right to supply products which may differ in design and specifications from those shown in this publication.
Product visuals shown here are only indicative and actual product may vary.
Errors and omissions exempted.

An Indo-Swiss Venture

ENTRACO BKS
BUS DUCTS PVT. LTD.

> IP55 - SANDWICH

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