SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



Junction **boxes** in thermosetting (GRP) **with easy accesorizing IP66**

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
125x185x125	18	**532200EX**	1
190x185x125	19	**532201EX**	1
250x185x125	23	**532202EX**	1
290x185x125	24	**532203EX**	1
380x185x125	25	**532204EX**	1



Junction **boxes** in thermosetting (GRP) with **low cover IP66**

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
92x92x68	8	**532035EX**	1
125x92x68	10	**532045EX**	1
185x92x68	12	**532055EX**	1
125x125x100	13	**532116EX**	1
185x125x100	15	**532117EX**	1
250x125x100	20	**532118EX**	1



Junction **boxes** in thermosetting (GRP) with **high cover IP66**

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
92x92x100	11	**532005EX**	1
125x92x100	11	**532006EX**	1
185x92x100	16	**532015EX**	1
125x125x125	15	**532016EX**	1
185x125x125	17	**532017EX**	1
250x125x125	22	**532018EX**	1



Back plates in galvanized steel for junction boxes

For boxes with code	Back plate dimensions (mm)	Palazzoli code	Pack Q.ty
532035EX-532005EX	59x59	**532705**	1
532045EX-532006EX	92x58	**532714**	1
532055EX-532015EX	142x62	**532715**	1
532116EX-532016EX	86x86	**532716**	1
532117EX-532017EX	100x86	**532717**	1
532118EX-532018EX	175x86	**532718**	1
532200EX-532240EX	95x145	**532700**	1
532201EX	160x145	**532701**	1
532202EX-532242EX	220x145	**532702**	1
532203EX	260x145	**532703**	1
532204EX-532244EX	333x145	**532704**	1



Milling cutters, cup shaped, in steel, for quick drill connection, tungsten carbide gear teeth, specific for thermosetting

Hole type	Diameter (mm)	Palazzoli code	Pack Q.ty
M20 - M25 - M32 - M40	20,5 - 25,5 - 32,5 - 40,5	**538410**	1

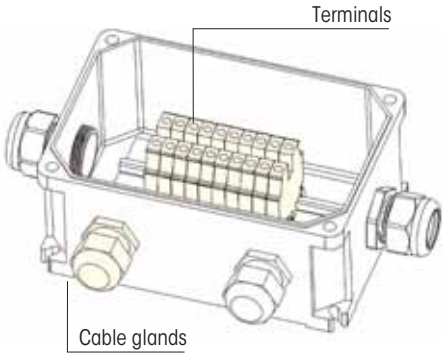
BOX-EX

Atex boxes software zone 1-2 and 21-22



The software is free and works on www.palazzoli.com

Enclosures of TAIS-EX in thermosetting and ALUPRES-EX in aluminium alloy can be completed with cable glands and terminals,to realize customized terminal enclosures, suitable to be installed in zone 1,2, 21 and 22, in compliance with the ATEX Directive 94/9/EC and 2014/34/EU.



To realize this configuration there are 2 methods:
Certified configurations: they can be obtained by the installer himself, following the instructions indicated in the following guide;
Special configurations: they can be realized by Palazzoli on customer specifications.

To realize this configuration you need to know:
a) number and type of the composable terminals;
b) number, type and dispositions of the cable glands.
For special configurations, you need to know also the cable type and the maximum rated current.

a) Number and type of the composable terminals

The EN50022 rail inside the enclosure can be completed with ATEX composable terminals in compliance with the IEC EN 60947-7-1 standards. In the table below, there are indicated the maximum number of composable terminals which can be inserted inside the enclosures, according to the correct power dissipation prescribed by the standards and the maximum number that can be physically inserted.

Palazzoli enclosures T6 class - Operating temperature 40°C													
CODE	DIMENSIONS (BxHxD)	MAXIMUM NUMBER OF COMPOSABLE TERMINALS											
		CERTIFIED CONFIGURATIONS						MAXIMUM CONFIGURATIONS ALLOWED					
		2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²
532200EX	185x125x125	7	6	5	4	3	-	17	15	12	9	8	6
532201EX	190x185x125	7	6	5	4	3	-	28	25	19	15	13	10
532202EX	250x185x125	8	7	6	6	4	-	40	35	27	22	18	14
532203EX	290x185x125	8	7	6	5	4	-	47	42	32	25	21	16
532204EX	380x185x125	7	6	5	4	3	-	56	50	38	30	26	20
532035EX	92x92x68	4	3	3	-	-	-	11	10	8	6	5	4
532045EX	125x92x68	5	4	3	-	-	-	17	15	12	9	8	6
532055EX	185x92x68	5	4	4	3	-	-	28	25	19	15	13	10
532116EX	125x125x100	6	5	4	3	-	-	17	15	12	9	8	6
532117EX	185x125x100	6	5	4	3	3	-	28	25	19	15	13	10
532118EX	250x125x100	8	6	5	4	3	-	40	35	27	22	18	14
532005EX	92x92x100	6	5	4	4	-	-	11	10	8	6	5	4
532006EX	125x92x100	5	4	4	3	-	-	17	15	12	9	8	6
532015EX	185x92x100	7	6	5	4	3	-	28	25	19	15	13	10
532016EX	125x125x125	7	6	5	4	3	-	17	15	12	9	8	6
532017EX	185x125x125	7	6	5	4	3	-	28	25	19	15	13	10
532018EX	250x125x125	8	7	6	5	4	-	40	35	27	22	18	14
511910EX	92x92x77	5	4	3	3	-	-	11	10	8	6	5	4
511913EX	125x125x113	9	8	6	5	4	-	17	15	12	9	8	6
150021EX	155x155x73	14	11	9	7	6	4	23	20	15	12	10	8
511920EX	185x185x145	14	13	11	9	7	5	28	25	19	15	13	10
511921EX	252x185x145	15	12	11	9	7	5	40	35	27	22	18	14
511911EX	125x92x77	6	5	4	3	-	-	17	15	12	12	8	6
511912EX	185x92x77	11	9	7	6	4	-	28	25	19	15	13	10
511917EX	252x125x113	15	13	11	9	7	5	40	35	27	22	18	14
511922EX	220x220x108	16	14	12	9	8	5	35	31	23	19	16	12
511923EX	252x252x197	21	17	15	12	10	7	40	35	27	22	18	14

Certified configurations: they can be obtained at the maximum rated current of the terminals, considering only one section. These configurations can be realized and certified by the installer, following the instructions supplied with the product.

Maximum configuration allowed: they can be realized with circuits with lower current than the maximum allowed by the terminals. For the realization and certification of these enclosures, you need to contact Palazzoli.
The enclosure dimensions depends on the power dissipation of the devices inside the enclosure.

b) Number, type and dispositions of the cable glands

Each enclosure can be drilled on the 4 sides with a maximum number of entries that depends on the hole diameter and the side length and depth.

On TAIS-EX thermosetting enclosures it is necessary to drill through holes and use cable glands with long thread and the relative nut.

The holes must be drilled with specific tools for the thermosetting, such as the cup shaped milling cutters equipped with quick special steel drill connection with tungsten carbide gear teeth code 538410, in order to avoid splinters and irrregularities on the hole profile.

On ALUPRES-EX aluminium alloy enclosures it is possible to predispose the threading to directly screw the cable gland.

On the sides with free window, you must use flanges predisposed for the threading passage or the blind ones to be drilled.
In the table below, there are indicated the sides of the enclosure with free window and opening type.

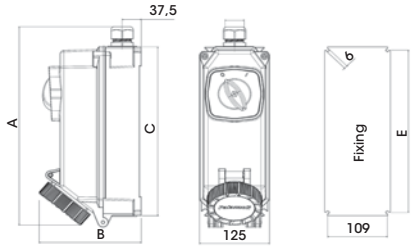
CODE	DIMENSIONS (BxHxP)	MAXIMUM NUMBER OF CABLE GLANDS THAT CAN BE INSTALLED ON EACH SIDE											
		LONG SIDE OF THE ENCLOSURE (B)						SHORT SIDE OF THE ENCLOSURE (H)					
		M16	M20	M25	M32	M40	M50	M16	M20	M25	M32	M40	M50
532200EX	185x125x125	8	6	3	2	2	-	4	3	2	1	1	-
532201EX	190x185x125	8	6	3	2	2	-	8	6	3	2	2	-
532202EX	250x185x125	14	12	5	4	3	-	8	6	3	2	2	-
532203EX	290x185x125	16	14	6	5	4	-	8	6	3	2	2	-
532204EX	380x185x125	24	22	9	7	6	-	8	6	3	2	2	-
532035EX	92x92x68	1	1	-	-	-	-	1	1	-	-	-	-
532045EX	125x92x68	3	3	2	-	-	-	1	1	-	-	-	-
532055EX	185x92x68	4	4	2	-	-	-	1	1	-	-	-	-
532116EX	125x125x100	4	3	2	1	1	-	4	3	2	1	1	-
532117EX	185x125x100	8	6	3	2	2	1	4	3	2	1	1	-
532118EX	250x125x100	14	12	6	4	3	-	4	3	2	1	1	-
532005EX	92x92x100	1	1	-	-	-	-	1	1	-	-	-	-
532006EX	125x92x100	3	3	2	-	-	-	1	1	-	-	-	-
532015EX	185x92x100	4	4	2	-	-	-	1	1	-	-	-	-
532016EX	125x125x125	5	4	2	1	-	-	5	4	2	1	-	-
532017EX	185x125x125	7	6	4	3	-	-	5	4	2	1	-	-
532018EX	250x125x125	10	8	5	4	-	-	5	4	2	1	-	-
511910EX	92x92x77	2	2	1		-	-	2	2	1	-	-	-
511913EX	125x125x113	5	4	2	2	-	-	5	4	2	2	-	-
150021EX	155x155x73	6	5	3	1	-	-	6	5	3	1	-	-
511920EX	185x185x145	12	10	8	4	3	2	12	10	8	4	3	2
511921EX	252x185x145	16	14	10	5	4	3	12	10	8	4	3	2
511911EX	125x92x77	3	2	2	-	-	-	-	-	F0	-	-	-
511912EX	185x92x77	4	3	2	-	-	-	-	-	F0	-	-	-
511917EX	252x125x113	9	8	5	4	-	-	-	-	F1	F1	-	-
511922EX	220x220x108	-	-	-	-	F3	-	-	-	-	-	F3	-
511923EX	252x252x197	-	-	-	-	-	F5	24	18	12	7	6	3

The above instructions are based on calculations of power dissipation relative to the maximum values prescribed by the standards in force. Giving precise information about the terminal boards compositions, cables, currents, cable glands disposition and types.

PALAZZOLI CAN REALIZE CUSTOMIZED SOLUTIONS, ON REQUEST.

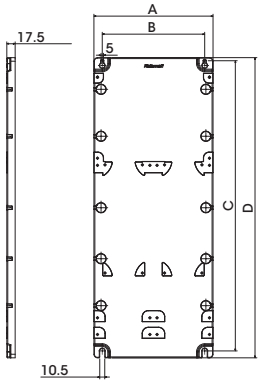
TAIS-EX series

Sockets



Rated current (A)	Poles	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P+⏚	12÷18	380	159	335	Ø25	319
	3P+⏚			164			
	3P+N+⏚			175			
20 / 32	2P+⏚	16÷25	380	177	335	Ø32	319
	3P+⏚						
	3P+N+⏚			185			
40 / 63	2P+⏚	16÷25	423	203	370	Ø32	354
	3P+⏚						
	3P+N+⏚						

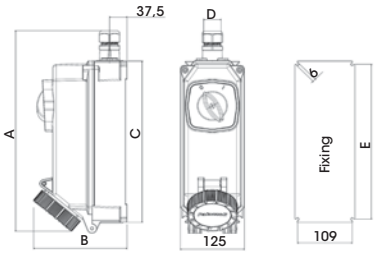
Mounting plates



Code	A (mm)	B (mm)	C (mm)	D (mm)
532800	125	110	609	630
532802	250	215		
532804	380	345		

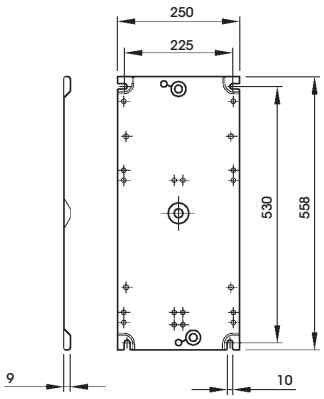
ALUPRES-EX series

Sockets

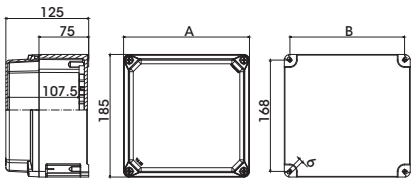


Rated current (A)	Poles	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P+⏚	12÷18	350	150	315	M25	300
	3P+⏚			155			
	3P+N+⏚			160			
25 / 32	2P+⏚	16÷25	390	168	315	M32	300
	3P+⏚						
	3P+N+⏚			170			
40 / 63	2P+⏚	16÷25	430	188	355	M32	340
	3P+⏚						
	3P+N+⏚						

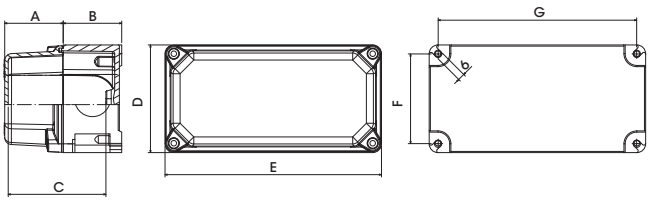
Mounting plates



TAIS-EX series



Code	A (mm)	B (mm)
532200EX - 532240EX	125	108
532201EX	190	173
532202EX - 532242EX	250	233
532203EX	290	273
532204EX - 532244EX	380	363



Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
532035EX	18	50	51	92	92	78	78
532045EX	18	50	51	92	125	78	111
532055EX	18	50	51	92	185	78	171
532116EX	18	75	75	125	125	111	111
532117EX	18	75	75	125	185	111	171
532118EX	18	75	75	125	250	111	238
532005EX	50	50	83	92	92	78	78
532006EX	50	50	83	92	125	78	111
532015EX	50	50	83	92	185	78	171
532016EX	50	75	100	125	125	111	111
532017EX	50	75	100	125	185	111	171
532018EX	50	75	100	125	250	111	238

SEQUENTIAL INDEX

Palazzoli code	Marks	Pack Q.ty	Catalogue page
463349EX		1	261
464210EX		1	260-261
464220EX		1	260-261
464230EX		1	260-261
464310EX		1	260-261
464320EX		1	260-261
464330EX		1	260-261
464336EX		1	261
464339EX		1	261
464346EX		1	261
464410EX		1	260-261
464420EX		1	260-261
464430EX		1	260-261
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465126EX		1	265-266
465129EX		1	265-266
465134EX		1	265-266
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541055EX		1	267-273
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571013EX		50	277
571016EX		50	277
571021EX		20	277
571029EX		20	277
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571048EX		5	277
571109EX		50	277
571111EX		50	277
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900263EX		1	285
900273EX		1	285
900453EX		1	285
900463EX		1	285
900473EX		1	285

Mark legend: 1 = IMQ 2 = VDE 3 = R.i.na. 4 = M.M.I. 5 = ENEC 6 = CCC 7 = cULus 8 = UKR 9 = Lloyd's Register 10 = GOST-R