

***Palazzoli***

**General**  
Catalogue



2019/2020

# ***Palazzoli***



CHIAREZZA DELLA FUNZIONE  
SEMPLICITÀ DI PROGETTO  
QUALITÀ DELLA MANIFATTURA

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CLARITY OF FUNCTION  
PROJECT SIMPLICITY  
QUALITY OF MANUFACTURE



# TAIS





## TAIS

Excellent resistance to stresses, vibrations, abrasions and does not need any maintenance



All products of the TAIS series are made in Palazzoli thermosetting GRP, a fire retardant material that does not produce toxic gases and is resistant to chemicals over time.

The special gaskets in non-ageing elastomer guarantee a protection rating up to IP68, for installing in areas subject to possible flooding.



The back boxes are equipped with brass threaded inserts that ensure an easy opening and closing of the cover even after long time.

Practically immune to the major part of all the aggressive substances, they are the best solution for industrial installations under 1.5 m height.

Suitable for chemical industries, industrial facilities, plants with galvanic treatments, airports, cold rooms and in dusty, salty and corrosive atmosphere.



TAIS boxes represent the state of the art for industrial electrical junctions, both for wall-mounting or on machinery boards in insulating material. The offer is structured on two types of boxes, one is with small dimensions for mounting on board of machineries and the other is with medium and big dimensions to be wall-mounted for industrial plants.

Compliance with standards	<b>IEC/EN 602208</b> <b>IEC/EN 60670-1</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP67 - IP68</b>
Colour	<b>RAL5015 (cover)</b> <b>RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK rating according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Junction boxes**  
in thermosetting GRP  
with **low cover**  
**IP68**



Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	18	<b>538035</b>	1
125x92	50	18	<b>538045</b>	1
185x92	50	18	<b>538055</b>	1
125x125	75	25	<b>538116</b>	1
185x125	75	25	<b>538117</b>	1
250x125	75	25	<b>538118</b>	1

**Features:** IP68 protection rating test is carried out at 2 m depth for 24 h. Blind walls.



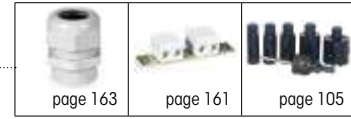
**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP68**



Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	50	<b>538005</b>	1
125x92	50	50	<b>538006</b>	1
185x92	50	50	<b>538015</b>	1
125x125	75	50	<b>538016</b>	1
185x125	75	50	<b>538017</b>	1
250x125	75	50	<b>538018</b>	1

**Features:** IP68 protection rating test is carried out at 2 m depth for 24 h. Blind walls.

**Technical accessories:**





**Junction boxes**  
in thermosetting GRP  
with **low cover**  
**IP67**

Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	18	<b>532035</b>	5
125x92	50	18	<b>532045</b>	1
185x92	50	18	<b>532055</b>	1
125x125	75	25	<b>532116</b>	1
185x125	75	25	<b>532117</b>	1
250x125	75	25	<b>532118</b>	1

Features: blind walls.



**Junction boxes**  
in thermosetting GRP  
with **high cover**  
**IP67**

Outer dimensions (mm)	Box height (mm)	Cover height (mm)	Palazzoli code	Pack Qty
92x92	50	50	<b>532005</b>	1
125x92	50	50	<b>532006</b>	1
185x92	50	50	<b>532015</b>	1
125x125	75	50	<b>532016</b>	1
185x125	75	50	<b>532017</b>	1
250x125	75	50	<b>532018</b>	1

Features: blind walls.

Technical accessories:



**Back plates**  
in galvanised steel  
for TAIS boxes

For box dimensions	For box code	Palazzoli code	Pack Qty
92x92	532005, 532035, 532225, 538005 538035, 532005, 532035	<b>532705</b>	1
125x92	532006, 532045, 532285, 532295 538006, 538045, 532006, 532045	<b>532714</b>	1
185x92	532015, 532055, 532325, 532385, 538015, 538055, 532015, 532055	<b>532715</b>	1
125x125	532016, 532116, 532346, 538016 538116, 532016EX, 532116EX	<b>532716</b>	1
185x125	532017, 532117, 532667, 532677, 538017 538117, 532017EX, 532117EX, 532667EX	<b>532717</b>	1
250x125	532018, 532118, 532618, 532628 532638, 532648, 538018, 538118 532018EX, 532118EX, 532628EX	<b>532718</b>	1

Uses: for fastening terminal blocks or non-modular devices.



**Boxes**  
in thermosetting GRP  
with **transparent cover**  
**IP67**

Outer dimensions (mm)	No. of DIN modules	Power dissipation (W)	Palazzoli code	Pack Qty
125x125x125	4	13	<b>532516</b>	1
185x125x125	6.5	15	<b>532557</b>	1
250x125x125	9	20	<b>532658</b>	1

Features: blind walls supplied with drilling template.  
Padlockable cover and with tamper-proof screw.

Technical accessories:





TAIS Grande series distribution boxes are a range of products with thickened walls made of Palazzoli Thermosetting GRP for heavy duty applications with up to IP67 protection rating and resistant to UV rays. The system is composed of 5 sizes, complete with back plate made of zinc-tropicalised steel sheet, that can be accessorised with blind or transparent cover with moulded large captive screws with hexagonal insert of 8 mm. The boxes are available in versions totally blind or with windows on the sides that allow modular combinations.



Compliance with standards	<b>IEC/EN 602208</b> <b>IEC/EN 60670-1</b>
Material	<b>Palazzoli thermosetting GRP</b>
Protection rating (IP according to IEC/EN 60529)	<b>IP65 and IP67</b>
Colour	<b>RAL5015 (cover)</b> <b>RAL7042 (base)</b>
Resistance to abnormal heat and fire ("Glow Wire" according to IEC/EN 60695-2-10)	<b>960°C</b>
Flammability rating (according to UL94)	<b>V0</b>
Impact resistance (IK grade according to IEC/EN 62262)	<b>IK10</b>
Insulation class	<b>II □</b>
Storage temperature	<b>-50°C - +90°C</b>
Operating temperature	<b>-40°C - +90°C</b>



**Resistance to chemical agents**

WATER	SALINE SOLUTION	ACIDS		BASES		SOLVENTS			
		CONCENTRATED	DILUTED	CONCENTRATED	DILUTED	ALCOHOL	ACETONE	PERCHLORO-ETHYLENE	BENZENE
↑	↑	→	↑	↑	↑	↑	↑	↑	↑
OILS		FATS		AMMONIA	OXIDISERS	INORGANIC SALTS	GASOLINE	DETERGENTS	U.V. RAYS
MINERAL	VEGETABLE	ANIMAL	SYNTHETIC						
↑	↑	↑	↑	↑	↑	↑	↑	↑	↑

Legend: ↑ high resistance    → partial resistance





**Junction boxes**  
in thermosetting GRP  
with back plate  
**IP67**

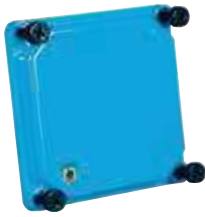
Outer dimensions (mm)	Window type	Installable TAIS socket module	Palazzoli code	Pack Qty
185x185x115		2x95	<b>531011</b>	1
		2x95	<b>531200</b>	1
		2x95	<b>531211</b>	1
		2x95	<b>531311</b>	1
		-	<b>531411</b>	1
250x185x115		2x95/2x125	<b>531021</b>	1
		2x95/2x125	<b>531220</b>	1
		2x95	<b>531222</b>	1
		2x95/2x125	<b>531221</b>	1
		-	<b>531231</b>	1
		2x95	<b>531321</b>	1
		2x95/2x125	<b>531331</b>	1
		-	<b>531431</b>	1

Outer dimensions (mm)	Window type	Installable TAIS socket module	Palazzoli code	Pack Qty
250x250x115		2x95/2x125	<b>531040</b>	1
		2x95/2x125	<b>531241</b>	1
		-	<b>531240</b>	1
		2x95/2x125	<b>531340</b>	1
		-	<b>531440</b>	1
370x250x115		2x95/2x125	<b>531540</b>	1
		2x95/2x125	<b>531640</b>	1
		-	<b>531042</b>	1
500x370x115		-	<b>531242</b>	1
		-	<b>531442</b>	1
500x370x115		-	<b>531062</b>	1
		-	<b>531262</b>	1
		-	<b>531662</b>	1

**Equipment included:** free windows with gaskets in non-ageing elastomer. Screws and bolts for coupling or closing with flanges and back plate. Boxes up to 250x250 with drilling template.  
**Features:** they are used for making junction or distribution boards. Boxes with dimensions 250 x 250 and larger are rated IP65.

**Technical accessories:**





**Blind covers low**  
in thermosetting GRP  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
185x185	25	<b>535320</b>	1
250x185	25	<b>535321</b>	1
250x250	25	<b>535322</b>	1
370x250	25	<b>535323</b>	1
500x370	25	<b>535324</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** covers with dimensions 250x250 and larger are IP65.



**Blind covers high**  
in thermosetting GRP  
for TAIS Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	75	<b>535325</b>	1
250x250	75	<b>535326</b>	1
370x250	75	<b>535327</b>	1
500x370	75	<b>535328</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** the height of the cover allows to insert MCCB inside.  
Covers with dimensions 250x250 and larger are rated IP65.



**Transparent covers low**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	25	<b>535126</b>	1
250x250	25	<b>535135</b>	1
370x250	25	<b>535137</b>	1
500x370	25	<b>535157</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** in UV stabilised polycarbonate.  
Covers with dimensions 250x250 and larger are rated IP65.



**Transparent covers high**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	Palazzoli code	Pack Qty
250x185	75	<b>535131</b>	1
250x250	75	<b>535140</b>	1
370x250	75	<b>535142</b>	1
500x370	75	<b>535162</b>	1

**Equipment included:** complete with captive screws that can be sealed.  
**Features:** in UV stabilised polycarbonate.  
Covers with dimensions 250x250 and larger are rated IP65.



**Windowed covers**  
in polycarbonate for TAIS  
Grande boxes  
**IP67**

For boxes with dimensions (mm)	Cover height (mm)	No. of DIN modules	Palazzoli code	Pack Qty
185x185	80	7.5	<b>535640</b>	1
250x185	80	11	<b>535643</b>	1

**Equipment included:** complete with captive screws that can be sealed, DIN rail and small parts for fastening on a plate.  
**Features:** padlockable lid and with tamper-proof screw.

**NOTES**



Fixing screws made of fibre-reinforced technopolymer for higher tightening force, with captive and anti-tampering systems.



**Flat blind flanges**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	15	<b>538110</b>	2
b	175x60	15	<b>538210</b>	2
c	295x60	15	<b>538310</b>	1

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands.



**Blind flanges raised**  
in thermosetting GRP  
for windowed walls  
**IP67**

Type	Window dimensions (mm)	Flange height (mm)	Palazzoli code	Pack Qty
a	110x60	45	<b>538130</b>	2
b	175x60	45	<b>538230</b>	2
c	295x60	45	<b>538330</b>	1

**Uses:** closing the cable entry windows. Holes can be drilled for applying cable glands. The increased height helps entry of large cables or pipes. They make wiring easier as they increase the internal volume of the enclosure.

**Technical accessories:**



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**Hinge frames**  
with installation kit  
for TAIS Grande boxes

Description	Palazzoli code	Pack Qty
Single hinge in insulating material with screws, washers and gaskets	<b>538385</b>	1

**Uses:** with all TAIS series boxes in thermosetting GRP insulating material with screw cover (excluding those with 18 mm low cover). They cannot be fitted to walls with a window or near holes or knockouts.



**Supports for bus bars**  
for TAIS Grande boxes

Installable on windows	Installable bus bars (mm)	Palazzoli code	Pack Qty
a	3 x 16x4 (16x5 - 20x4 - 20x5), 2 by 16x4 (earth and neutral), 3 of ø 9 (auxiliary circuits)	<b>538180</b>	1
b	3 of 25x5 (25x6 - 32x5 - 32x6), 2 of 25x5 (earth and neutral), 3 of ø 11 (auxiliary circuits)	<b>538280</b>	1
c	6 of 40x5 (40x8 - 50x5 - 50x8), 4 of 25x5 (25x6 - 32x5 - 32x6)	<b>538380</b>	1

**Uses:** they are used to facilitate the application of conductor busbars in watertight distribution boards composed of equipment in TAIS Grande modular insulating boxes with windows type "a", "b" and "c".



**Supports**  
for 90° angled wall-mounting  
of straight sockets and plugs  
**IP65**

Support base dimensions (mm)	Installable sockets/plugs	Box window	Palazzoli code	Pack Qty
142x113	63A	a	<b>472967</b>	1
142x113	125A	a	<b>472968</b>	1
207x113	63A	b	<b>472977</b>	1
207x113	125A	b	<b>472978</b>	1

**Equipment included:** 4 stainless steel screws for fixing the socket or the plug.

**Uses:** for applications with combinable modular boxes in thermosetting GRP (with windows "a" or "b") or in aluminium (with windows F5).

**Technical accessories:**



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The background of the entire page is a night-time satellite view of Earth from space, showing the illuminated continents and city lights. A network of glowing blue lines connects various points across the sky, resembling a constellation or a global communication network. A bright sun or starburst is visible on the horizon, creating a lens flare effect. The Palazzoli logo is positioned in the upper left quadrant.

# **Palazzoli**

— excellence —  
**FROM ITALY**

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