



TECHNICAL BOOK

modular
ceilings

butech
PORCELANOSA Grupo

butech.[®]
PORCELANOSA Grupo



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The suspended ceiling fonotech of **butech** (Porcelanosa Grupo) offer an ideal constructive solution in spaces that require have facilities of various kinds on the ceiling.

Its ease of handling when dealing with removable ceilings and the different mechanizations, will favor the adoption of a great variety of elements such as lighting, ventilation grilles, speakers, fire systems, as well as any system to be run through the ceiling eliminating completely the visual impact to be hidden inside the vault produced by the false ceiling.

This aesthetic function is complemented by the acoustic performance of our ceilings. Their different levels of drilling and various diameters of the same, absorb acoustic waves attenuating them by an acoustic veil thermoadhered on the inside of the ceiling.

The range of ceilings fonotech of **butech** (Porcelanosa Grupo), provides its users with various models to adopt the ideal solution for every space, covering solutions adapted to large surfaces that require a constant handling (airports, hospitals, shopping centers, offices, etc.), high moisture environments and solutions that stand out for their elegance and beauty in representative areas (housing, meeting rooms, conference rooms, exhibition halls, etc.).

From **butech** (Porcelanosa Grupo) invite you to visit our false ceilings fonotech consulting this catalog, which will represent a help to guide you in selecting the constructive solution that best suits your project, giving the space a technical, aesthetic, practical and timeless solution.

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Metallic ceilings fonosteel

False modular false ceiling of removable acoustic sheets and freestanding made by galvanized steel sheet or aluminum alloy sheet.

This range, designed for areas that require intensive handling of the false ceiling, consists of wide variety of formats, drilling and profile, making it the most versatile range on the market.

features

- High resistance to handling.
- Easy installation and removal.
- Resistance to traction (ability to accommodate lighting and other facilities).
- Ease of mechanized and cutting.
- High resistance to corrosion by external agents.
- Adaptability to multiple spaces.
- Minimum maintenance.

steel lis spa

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum.
- Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.53 mm. +- 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Material with high resistance to corrosion by treating postlacquered at two sides.

Aluminum tray

- Aluminum of alloy 3105 according to standard AA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm +- 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm

Mechanized

- Trays without drilling

Finish

Postlacquered RAL to choose

- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder.

Structure

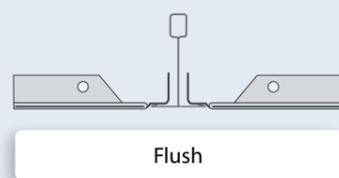
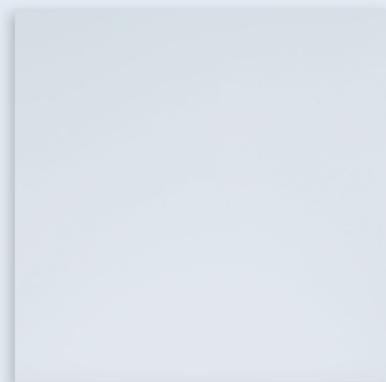
- Profile System T15 - T24, grade, specially designed for harsh environments.
- Profile of galvanized steel with polyester resin treatment for greater resistance to high moisture, fumes of chlorine and other corrosive elements.

Recommended uses

- Excellent solution for high humidity areas such as bathrooms, spas, indoor pools...

Packaging

- Cardboard boxes of 24 pieces. (8.64 m²/box).



References

MODEL	FORMAT	FINISH	PROFILE SYSTEM				
			T 15 mm			T 24 mm	
			SAP	KEA	PRICE	SAP	KEA
LIS SPA	600x600	BLACK	100104354	B65915219	48,28 p/m ²	100104357	B65915240
		STEEL	100104353	B65915270	48,28 p/m ²	100104356	B65915263
		WHITE	100104352	B65915290	48,28 p/m ²	100104355	B65915222

For orders of less than 100 m² a € 500 surcharge will be applied for painting line change.





steel lis

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum.
- Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.53 mm. + - 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Material with high resistance to corrosion.

Aluminum tray

- Aluminum of alloy 3105 according to standard AA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm + - 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm

Mechanized

- Trays without drilling.

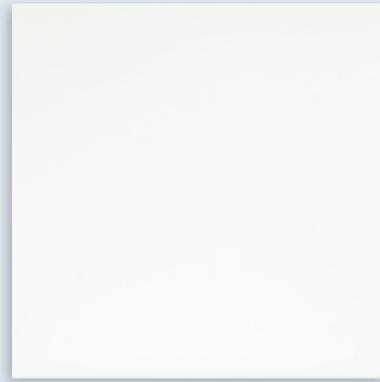
Finish

Prelacquered white / steel gray

- External surface: 5 micron of epoxy paint and 20 micron of white epoxy finish with 15" of brightness according to Gardner test at 60°.
- Internal surface: 3 microns of primer paint and 8 microns of epoxy finish

Black postlacquered / RAL to choose

- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder.



White



Steel



Black



RAL to choose

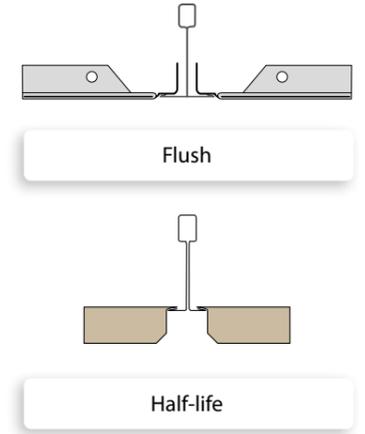
Structure

- Grid System T15 - T24, flush or half-life.

Packaging

- Cardboard boxes of 20 pieces. (7.2 m²/box). Half-life structure.
- Cardboard boxes of 24 pieces. (8.64 m²/box). Flush structure.

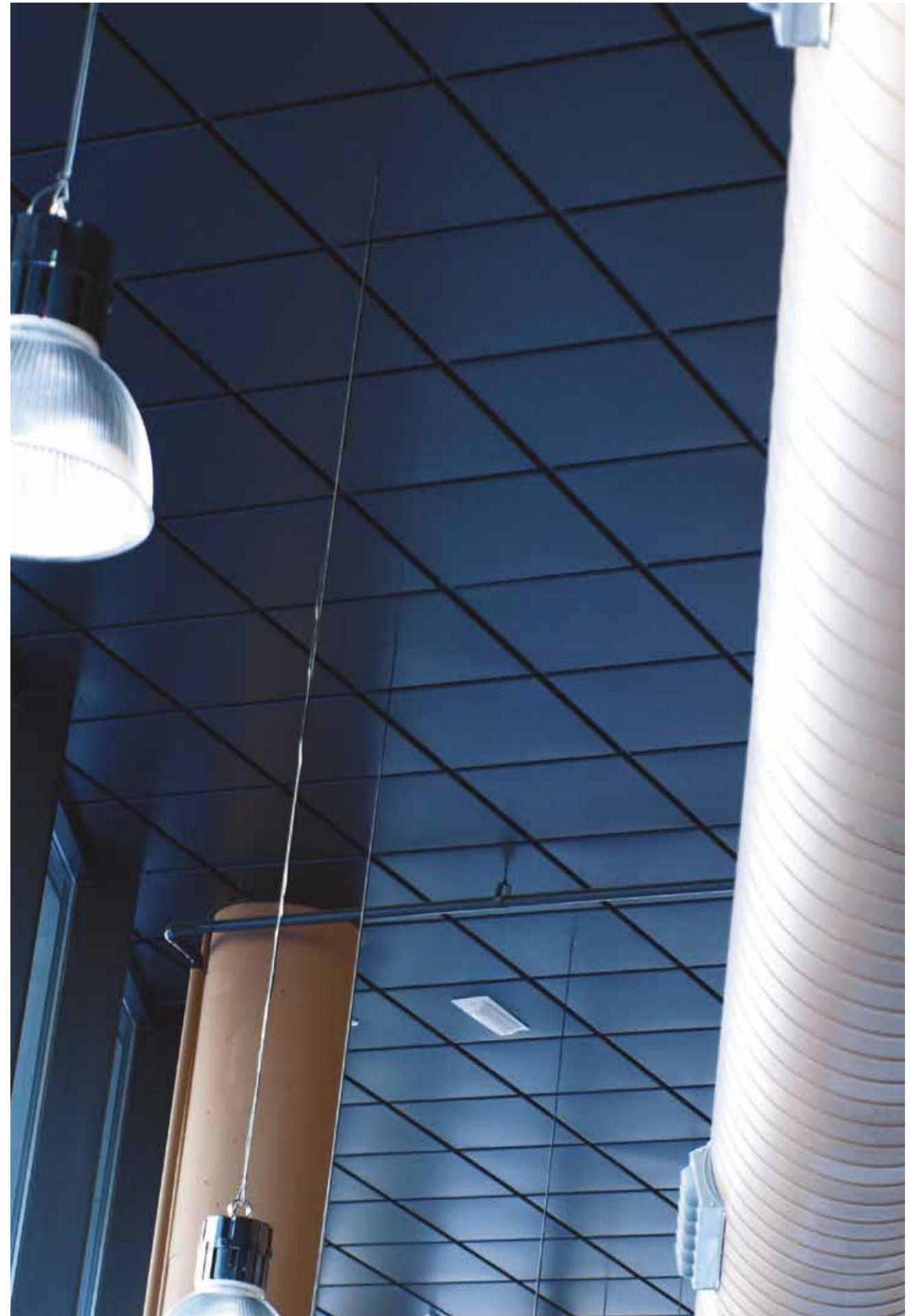
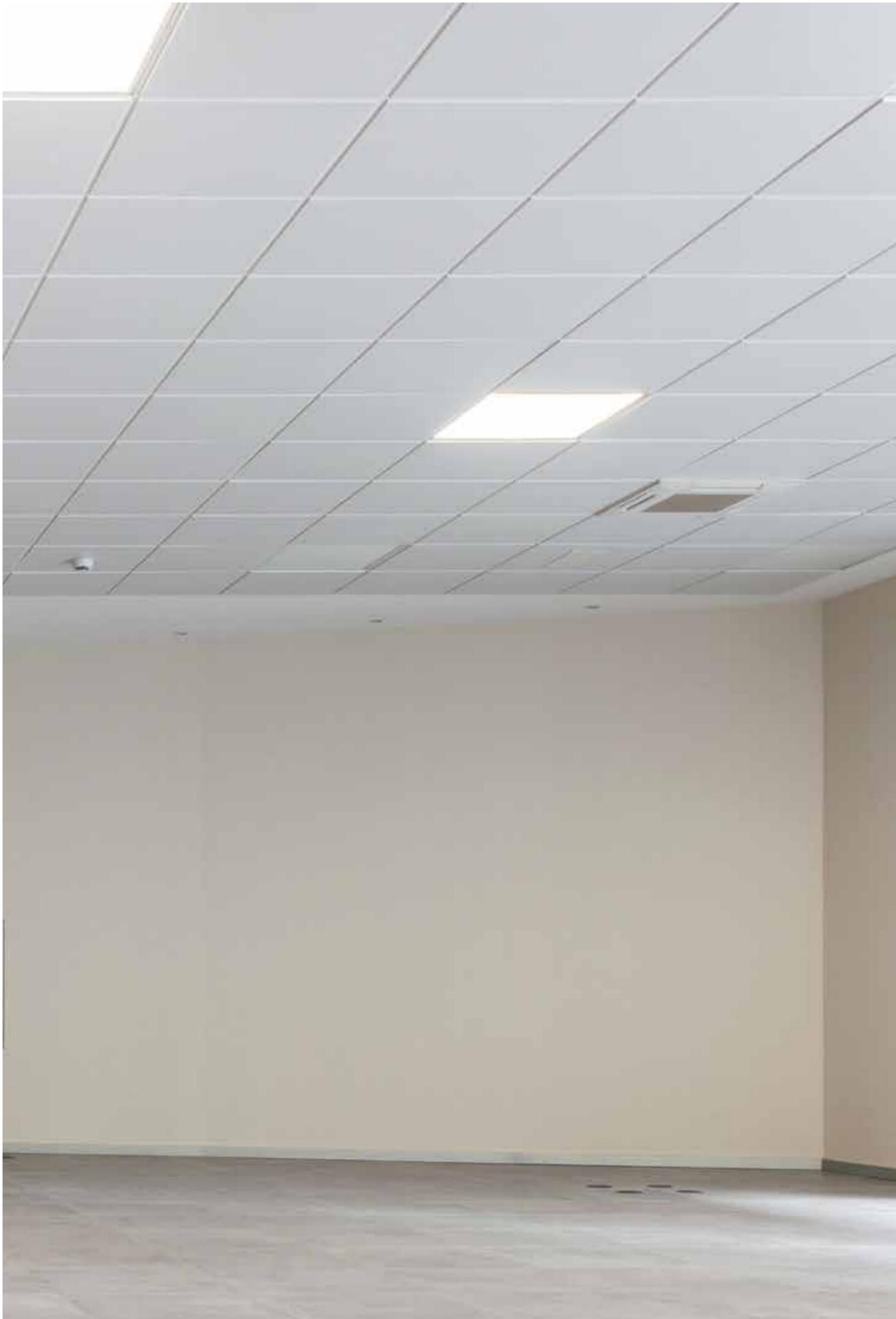
References



MODEL	FORMAT	FINISH	STRUCTURE	PROFILES SYSTEM				
				T 15 mm			T 24 mm	
				SAP	KEA	PRICE	SAP	KEA
STEEL LIS	600x600	BLACK	FLUSH	100104342	B65915235	31,28 p/m ²	100104348	B65915232
			HALF-LIFE	100104345	B65915247	31,28 p/m ²	100104351	B65915272
		STEEL	FLUSH	100104341	B65915223	25,29 p/m ²	100104347	B65915220
			HALF-LIFE	100104344	B65915226	25,29 p/m ²	100104350	B65915274
		WHITE	FLUSH	100104340	B65915217	25,29 p/m ²	100104346	B65915218
			HALF-LIFE	100104343	B65915242	25,29 p/m ²	100104349	B65915248

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.





steel estándar

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum.
- Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.53 mm. + - 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Material with high resistance to corrosion by treating postlacquered at two sides.

Aluminum tray

- Aluminum of alloy 3105 according to standard AA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm + - 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm

Mechanized

- Microperforated trays:
 - Ø 2/5X5/90°
 - Perforated in continuum.
 - Drilling diameter 2 mm to 5 mm of linear separation.
 - Drilled area without borders 13%.

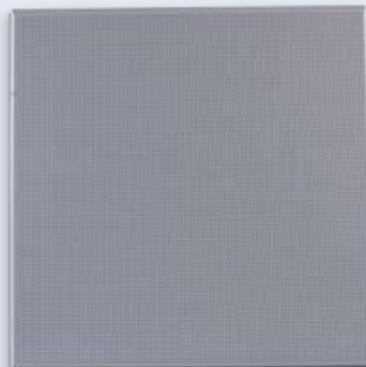
Finish

Prelacquered white / steel gray

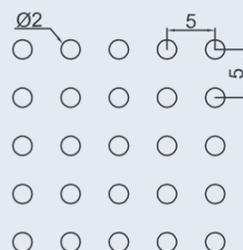
- External surface: 5 micron of epoxy paint and 20 micron of white epoxy finish with 15" of brightness according to Gardner test at 60°.
- Internal surface: 3 microns of primer paint and 8 microns of epoxy finish

Black postlacquered / RAL to choose

- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder.
- Thickness of the application layer 70 microns



Drilling detail



White



Steel



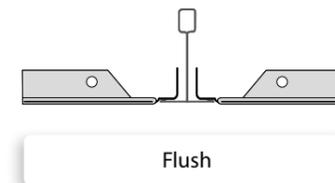
Black



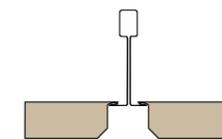
RAL to choose

Acoustic correction

- The perforated trays include on the inside a veil of fireproof fiber glass MO, adhered with thermo-melting glues without any kind of solvent. This veil will act as acoustic correction and particulates filter.
- Acoustic absorption $\alpha_w = 0.70$.



Flush



Half-life

Structure

- Grid System T15 - T24, flush or half-life.

Packaging

- Cardboard boxes of 20 pieces. (7.2 m²/box). Half-life structure.
- Cardboard boxes of 24 pieces. (8.64 m²/box). Flush structure.

References

MODEL	FINISH	FORMAT	STRUCTURE	PROFILES SYSTEM				
				T 15 mm			T 24 mm	
				SAP	KEA	PRICE	SAP	KEA
STEEL ESTÁNDAR	600x600	BLACK	FLUSH	100104360	B65915257	36,73 p/m ²	100104366	B65915275
			HALF-LIFE	100104363	B65915260	36,73 p/m ²	100104369	B65915250
		STEEL	FLUSH	100104359	B65915261	31,38 p/m ²	100104365	B65915243
			HALF-LIFE	100104362	B65915221	31,38 p/m ²	100104368	B65915238
		WHITE	FLUSH	100104358	B65915233	31,38 p/m ²	100104364	B65915237
			HALF-LIFE	100104361	B65915269	31,38 p/m ²	100104367	B65915276

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.





steel micro

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum. Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.53 mm. + - 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Material with high resistance to corrosion.

Aluminum tray

- Aluminum of alloy 3105 according to standard AA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm + - 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm

Mechanized

- Microperforated trays:
 - Ø 1.5/5.2X5.2/60°
 - Drilled in continuum.
 - Drilling diameter 1.5 mm to 9 mm of linear separation.
 - Drilling arranged in lines at 60 degrees with 5.2 mm between the lines.
 - Drilled area without borders 13%.

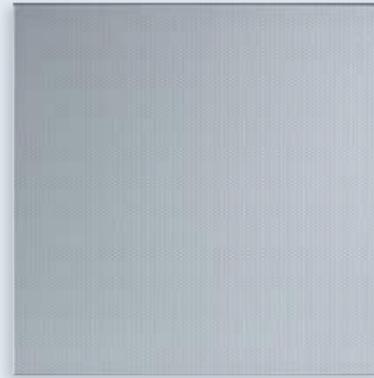
Finish

Prelacquered white / steel gray

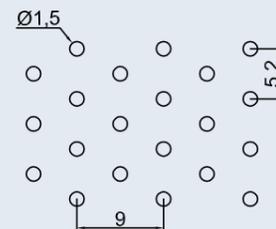
- External surface: 5 micron of epoxy paint and 20 micron of white epoxy finish with 15° of brightness according to Gardner test at 60°.
- Internal surface: 3 microns of primer paint and 8 microns of epoxy finish

Black postlacquered / RAL to choose

- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder.
- Thickness of the application layer 70 microns



Drilling detail



White



Steel



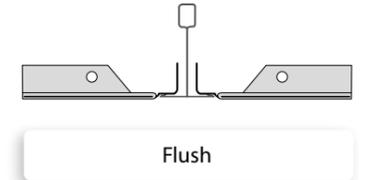
Black



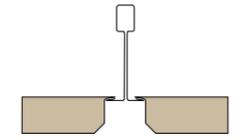
RAL to choose

Acoustic correction

- The perforated trays include on the inside a veil of fireproof fiber glass MO, adhered with thermo-melting glues without any kind of solvent. This veil will act as acoustic correction and particulates filter.
- Acoustic absorption $\alpha_w = 0.70$.



Flush



Half-life

Structure

- Grid System T15 - T24, flush or half-life.

Packaging

- Cardboard boxes of 20 pieces. (7.2 m²/box). Half-life structure.
- Cardboard boxes of 24 pieces. (8.64 m²/box). Flush structure.

References

MODEL	FORMAT	FINISH	STRUCTURE	PROFILES SYSTEM				
				T 15 mm			T 24 mm	
				SAP	KEA	PRICE	SAP	KEA
STEEL MICRO	600x600	BLACK	FLUSH	100104372	B65915267	36,73 p/m ²	100104378	B65915286
			HALF-LIFE	100104375	B65915244	36,73 p/m ²	100104381	B65915225
		STEEL	FLUSH	100104371	B65915265	31,38 p/m ²	100104377	B65915251
			HALF-LIFE	100104374	B65915288	31,38 p/m ²	100104380	B65915264
		WHITE	FLUSH	100104370	B65915262	31,38 p/m ²	100104376	B65915279
			HALF-LIFE	100104373	B65915239	31,38 p/m ²	100104379	B65915229

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.



steel micro R

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum.
- Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.53 mm. +- 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Material with high resistance to corrosion.

Aluminum tray

- Aluminum of alloy 3105 according to standard AA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm +- 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm.
- 1200 x 300 mm.
- Up to 3000 mm x 300 mm.

Mechanized

- Trays without drilling.
- Microperforated trays: Formats 600x600 mm and 1200x300 mm:
 - Ø 1.5/5.2X5.2/60°
 - Drilled in continuum. Drilling diameter 1.5 mm to 9 mm of linear separation.
 - Drilling arranged in lines at 60 degrees with 5.2 mm between the lines.
 - Drilled area without borders 11%.
- Drilled trays. Variable format up to 3000x300 mm:
 - Ø 2/5X5/90°
 - Drilled in continuum. Drilling diameter 2 mm to 5 mm of squares separation.
 - Drilled area 13%.

Finish

prelacquered white / gray steel

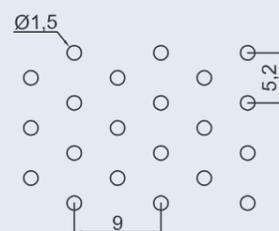
- External surface: 5 micron of epoxy paint and 20 micron of white epoxy finish with 15" of brightness according to Gardner test at 60°.
- Internal surface: 3 microns of primer paint and 8 microns epoxy finish.

postlacquered black / RAL to choose

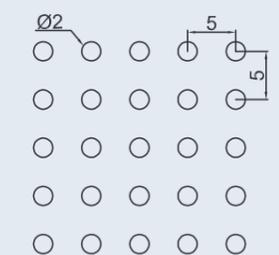
- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder
- Thickness of the application layer 70 microns.



Drilling detail



600 x 600 / 1200 x 300



300 x _

Acoustic correction

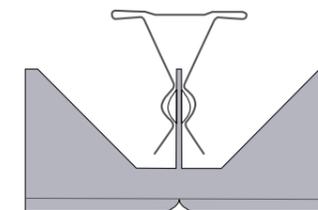
- The perforated trays include on the inside a veil of fireproof fiber glass MO, adhered with thermo-melting glues without any kind of solvent. This veil will act as acoustic correction and particulates filter.
- Acoustic absorption $\alpha_w = 0.70$.

Structure

- Hidden profile system clip-in type.

Packaging

- Cardboard boxes of 20 pieces. (7.2 m²/box). 600x600 mm and 1200x300 mm formats

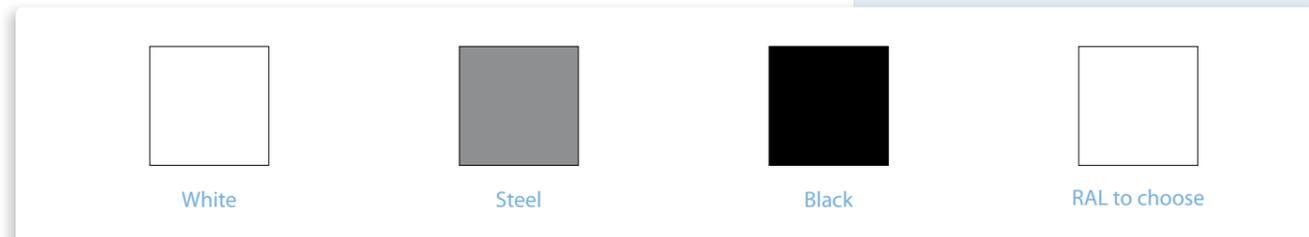


Clip-in

References

MODEL	FORMAT	FINISH	MECHANIZED	CLIP-IN PROFILE	
				SAP	KEA
STEEL MICRO R	600x600	BLACK	SMOOTH	100104384	B65915234
			MICROPERFORATED	100104387	B65915297
		WHITE	SMOOTH	100104382	B65915231
			MICROPERFORATED	100104385	B65915249
		STEEL	SMOOTH	100104383	B65915245
			MICROPERFORATED	100104386	B65915228
	300x1200	BLACK	SMOOTH	100104390	B65915271
			MICROPERFORATED	100104393	B65915313
		WHITE	SMOOTH	100104388	B65915293
			MICROPERFORATED	100104391	B65915259
		STEEL	SMOOTH	100104389	B65915230
			MICROPERFORATED	100104392	B65915284
300x3000	BLACK	SMOOTH	100104396	B65915266	
		MICROPERFORATED	100104399	B65915298	
	WHITE	SMOOTH	100104394	B65915281	
		MICROPERFORATED	100104397	B65915287	
	STEEL	SMOOTH	100104395	B65915283	
		MICROPERFORATED	100104398	B65915227	

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.









steel extramicro

Material

- Electro-galvanized steel according EN10152/1994 normal.
- Thickness of 0.50 mm.
- Incombustible material M0.
- Resistance to moisture 70% RH between 16 °C and 23 °C.
- Thermal conductivity 50 W / mK, being the the conductivity of the acoustic veil of 0.04 W / mK

Formats

- 600 x 600 mm

Mechanized

- Drilled on-line. Drilling diameter 0.7 mm
- Drilled area without borders 1%.

Finish

White

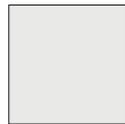
- Brightness according to ISO-2113 of 20%.
- Reflection of Light 85%. According to ASTM 1477-98

Steel

- Brightness according to ISO-2113 of 30%.



White



Steel

Acoustic correction

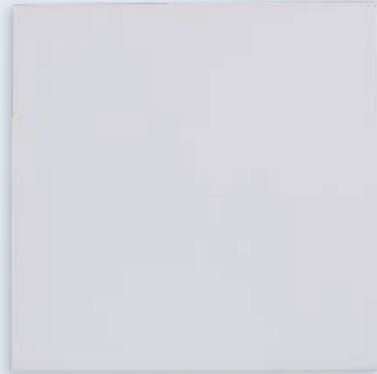
- The perforated trays include on the inside a veil of fireproof fiber glass MO, adhered with thermo-melting glues without any kind of solvent. This veil will act as acoustic correction and particulates filter.
- Acoustic absorption $\alpha_w = 0.75$.
- Acoustic attenuation $D_{ncw} = 30$ dB.

Structure

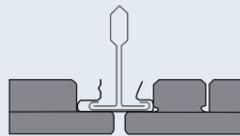
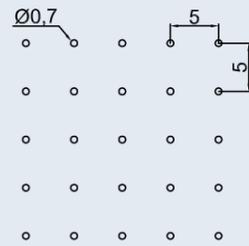
- Half-hidden profile System T24 being visible 6 mm among plates.

Packaging

- Cardboard boxes of 10 pieces. (3.6 m²/box)



Drilling detail



Half-hidden

References

MODEL	FORMAT	FINISH	PROFILE SYSTEM	
			SAP	KEA
STEEL EXTRAMICRO	600x600	WHITE	100004472	B65902002
		STEEL	100004475	B65902005





steel especial II N

Material

- Galvanized steel.
- Galvanization treatment with 100 grams per square meter. (DX51D + Z100 according to EN 10346)
- Thickness of 0.50 mm.
- Material M1.
- Euroclass B s1 d0
- Material with high resistance to corrosion.

Formats

- 600 x 600 mm

Mechanized

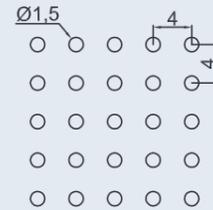
- Drilling diameter 1,5 mm to 4 mm linear separation.
- Drilled area with 6 mm borders, 11%.

Finish

- External surface: base layer of 5 micron of epoxy paint and final coating of polyester resin 25 microns.
- Internal surface: 5 microns of polyester resin.



Drilling detail



White

Acoustic correction

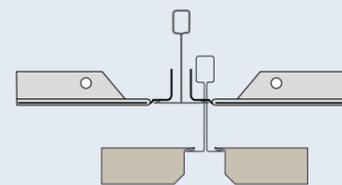
- The perforated trays include on the inside a veil of fireproof fiber glass MO, adhered with thermo-melting glues without any kind of solvent. This veil will act as acoustic correction and particulates filter.
- Acoustic absorption $\alpha_w = 0.65$

Structure

- Profile system T15, gradient.

Packaging

- Cardboard boxes of 18 pieces. (6.48 m²/box)



Flush

References

			PROFILE SYSTEM	
			T15 mm GRADIENT	
MODEL	FORMAT	FINISH	SAP	KEA
STEEL ESPECIAL II N	600x600	WHITE	100137666	B65915678

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.





steel grid

Material

Galvanized steel tray

- Galvanized steel in cold lacquered in continuum.
- Galvanization treatment with 95 grams per square meter.
- Alloy of the coating 95% zinc and 5% aluminum.
- Thickness of 0.60 mm. +- 5% according to accepted standards of iron and steel industry.
- Incombustible material M0.
- A2 s2 d0 Euroclass
- Resistance to corrosion, 1000 hours according to test DIN 50017.
- Saline resistance saline, 300 hours according to test DIN 50021.

Aluminum tray

- Aluminum of alloy HD5050 according to standard AA, EN1396 and ECCA
- Hardness H16 according to UNI EN 10002.
- Thickness of 0.6 mm + - 8% according to accepted standards of iron and steel industry.

Formats

- 600 x 600 mm.

Mechanized

- Grid 50 x 50 mm

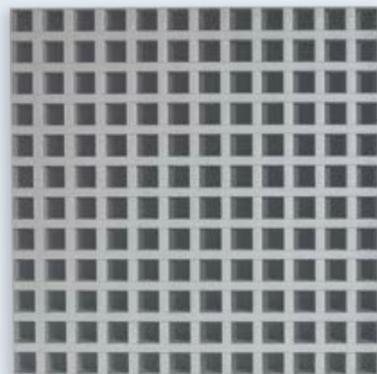
Finish

Prelacquered white / gray steel

- External surface: 5 micron of epoxy paint and 20 micron of white epoxy finish with 15" of brightness according to Gardner test at 60°.
- Internal surface: 3 microns of primer paint and 8 microns epoxy finish.

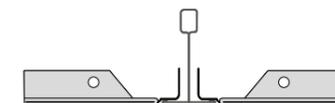
Postlacquered black / RAL to choose

- Pretreatment of grease removal coating and phosphatized of the surface of the plate.
- Lacquered with electrostatic process with application of epoxy-polyester resins in thermosetting powder
- Thickness of the application layer 70 microns.



Structure

- Flush profile system of 15 mm, being integrated with the trays for having the same width as the grid.



Flush

Packaging

- Cardboard boxes of 5 pieces. (1.8 m²/box)

References

MODEL	FORMAT	FINISH	PROFILE SYSTEM	
			GRADIENT	
			SAP	KEA
STEEL GRID	600x600	WHITE	100104400	B65915296
		STEEL	100104401	B65915312

For orders of less than 100 m² with color different from white or gray, a € 500 surcharge will be applied for painting line change.



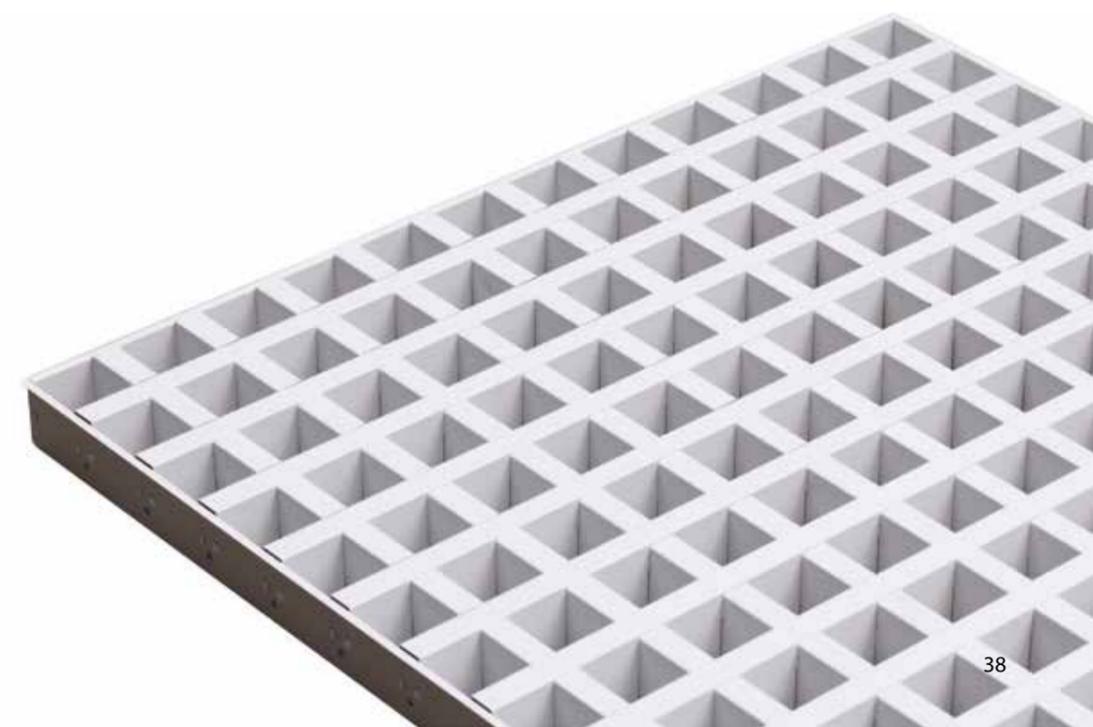
White



Steel



RAL to choose



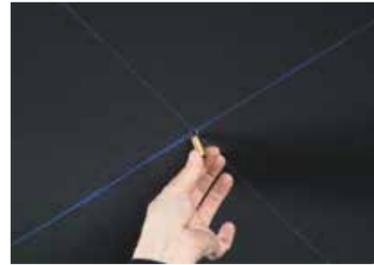




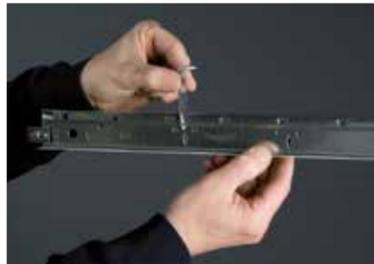
Installation Tegular profiles



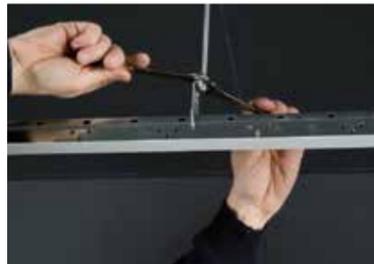
1. Lay out the surface where the ceiling will be installed.



2. Install the stud to the floor slab and the threaded rod. (Install one stud and one rod per m².)



3. Install the hanging pieces in the primary profiles.



4. Join the primary profile with the rod using the nuts. (Use two nuts for each hanging piece)



5. Join the primary profiles when the room dimension is larger than that of the profile.



6. Check that the primary profiles are leveled.



7. Install the 60 cm and 120 cm secondary profiles.



8. Use these two profile types to make the grids, from where the plates will be located.



9. Rest the clips on one of the profiles.



10. Exert pressure forward while we start raising the plate.



11. The plate will be fixed within the grid.

Installation Clip-in profiles



1. Lay out the location of the ceiling elements.



2. Mark the location of the hangings and make the holes.



3. Install the stud and the threaded rod.



4. Install the clamping flange and the bearing profile.



5. Join the suspension flange with the rod using the nuts.



6. Install the joint load-bearing profile to join two load-bearing profiles, when necessary.



7. Join two profiles, leaving the joint piece at the profile ends.



8. Check that the profiles are leveled.



9. Install the profile joining clip and the Clip-in profile.



10. Install the Clip-in profile joint when necessary.



11. Install the trays in the Clip-in profiles by exerting a slight pressure



How to get a budget of a butech system?

- Come to one of our stores/ distributors, where you will be attended by our professionals, who will show you the products that best suit your needs.
- To provide you with the best service, you should provide us the plans of the project and fill a study sheet customized to your product.
- Once delivered the plans and the sheet correctly completed, from the Technical Department of butech, a first budget will be done.
- In less than 15 days, the same professional who attended you will deliver the budget.
- In case of acceptance, and if you wish, you will receive the visit of one of our technicians for the preparation of the final budget.

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Manart Al Andalos Riyadh - Riyadh - 11324
Al kharj Highway Near Gypsum Factory - T: (+)966 11 8102512

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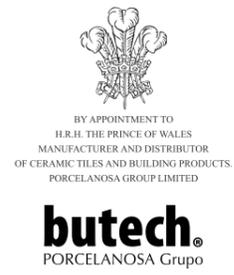
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