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PRESENTATION

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CERTIFICADO Nº 02/CEP.1804

PRESENTATION

TECTEND - Tectos Tensos Decorativos, Lda.

Factory:
Rua da Industria, Lote 29 – Zona Indústrial Casal do Cego
2415-833 Leiria - Portugal
Tel: + 351 244 856 329 - Fax: + 351 244 854 680
www.tectend.pt email: tectend@tectend.pt

Founded in 1998, TECTEND's activities are design, production, and distribution of tension ceilings. It is the rst and only manufacturing unit in this area on the Iberian Peninsula.

Product: Tension Ceilings in PVC film, include a gamut of 10 versions: Lacquered, Satin-like, Matte, Metalic, Translucent, Leather, Printed, Marbled, New Line and Digital Print.

Profiles in PVC and Aluminium. Visible and Concealed gamut.

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CERTIFIED IQNet MANAGEMENT SYSTEM
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PRESENTATION

Ceiling Conception

The conception of TECTEND ceilings can be up to you.

Imagination and creativity put these ceilings possibilities to the test.

The humologous materials of TECTEND guarantee:

- Resistant and durable materials
- Techniques for the most audacious forms
- Quick aplications
- Fulfillment of security norms
- Free study of your project's actualization
- Excellent Relation: Quality/Price

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PRODUCT DEFINITION

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PRODUCT DEFINITION

TECTEND

Registered brand.

Authorized product for use in public places

- Tectend ceilings are composed of: A maleable film of special vinyl (polychloure) without cadmium with classication of M1, auto-extinguishable, does not sustain combustion or release toxic fumes.
  Ceilings are formed by one or more canvases that are cut and welded by high frequency, depending on their designs and dimensions, and made to seasure. Each ceiling is a unique piece.

- A semi-rigid extursed harpoon of a (polychloure) vinyl base, with an M1 classication, welded on the canvas perifery allowing it to fit under pressure in the mural profile.

- A rigid profile - with a (polychloure) vinyl base having an M1 classication.

- An aluminum extursed prole M0, with specic forms - straight, molded, joined with angular square cuts - placed over the perifery of the canvas thus allowing the latching of the Tectend canvas harpoon.

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PRODUCT DEFINITION

Ceilings' versatility

They adapt to all surfaces, forms, diverse situations, and spaces.

- Horizontal ceilings of 3 to 90 angles and more
- Ceilings for big surfaces
- Multiple level ceilings
- Arch and complex form ceilings

- with existing frames or those made with direct illumination
- with integration of all types of lighting (suspense, inlaid, spot, etc.)
- with the integration of any technical devices
- to optimize acoustic and thermal isolation
- for industrial areas, white rooms (hospitals),
- for places with high levels of humidity
- for all places according to Tectend's technical services studies.

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PRODUCT DEFINITION

Tectend, a ceiling forever:

- Allows new forms and volumes to be imagined; you create your own ceiling
- Possesses superior quality finishing touches
- Solves technically and aesthetically complicated situations
- Has an exceptional quality of fabrication and handy-work; assures its aesthetics and longevity
- Has a large diversity of colors and patterns
- Creates a sensation of well-being and confort
- Its prime material responds to security norms as well as to the demands of the country of origin's official entities. A certificate with an M1 classification was issued by the town hall of paris. The ministry of internal affairs authorized the application in public areas after tests were executed by OVNA, according to the demands of alimentary hygiene.

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PRODUCT DEFINITION

Tectend, how and for how long?

The TECTEND tension ceiling is contituted of a special canvas with a recyclable and anti-inflammable PVC base. The canvas molecules loosen with heat bestowing elasticity to the ceiling and later contract with cooling.

The Tectend tension ceiling is made per measurement. Each ceiling, being unique, is fabricated according to the area survey carried out by competent technicians. It is about obtaining a ceiling perfectly adapted to your area whatever the form or dimensions are, whether 3, 4 or 90 angles form its perimeter or curves. With Tectend's specific global tension, tension is maintainted forever.

The dimension of Tectend ceilings depend on the specific weight per m2, the type of canvas used, the ceiling's dimensions, as per the norms and regulations of the incorporated elements.

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PRODUCT DEFINITION

Unique characteristics

- Trained specialists who have adequate tools apply Tectend cailings. The ceiling is applied with heat and clipped onto the support rails fixed along the areas' perimeter at the desired height.

- Ceiling application does not imply the creation of rubbish, so moving furniture for this reason is unnecessary.

- Tectend does not require any type of finishing touches such as sanding and paint touch-ups, thus not interfering directly with architecture.

- The ceilings are indifferent to humidity and condensation. They are impermeable, allowing the retention of water via infiltration or pipe leaks. They can be washed without being damaged and can constitute an anti-fire sealing in a complex.

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PRODUCT DEFINITION

Unique characteristics

- In case of an urgent repair of technical installations or damage due to water, Tectend ceilings allow total or partial unclipping within few minutes (Reclipping should be done by Tectend technicians).
- Tectend is thermally stable.
- Tectend is applied at the desired height and allows relatively easy adjustments.
- Tectend diminishes construction defects and apparent bad arrangements of beams. This permits a reduction in the volume of areas to be heated as well as the waste of heat.
- Tectend allows for the collocation of cables (electric, sonorous, etc.) and tubes adjoining the ceiling.
- Tectend permits the installation of the regulating supports for projectors and technical devices in the air box.
- Tectend lessens the resonance in rooms, improving the acoustic conditions.
- Tectend is indifferent to X-rays, resistant to chlorine and evacuation of solvents and seawater.

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PRODUCT DEFINITION

Technical features

Composition
Sheet of PVC plastified without cadmium
(<75 ppm according to international rules).

Utilization
Decoration

Presentation
Thickness:
(NF T 54-101- oct. 84) 0.17mm +/- 10%

Surface finishing:
(NF T 54-101- oct. 84) 230gr. m^2 +/- 10%

Special features:
Fire class (NFP 92-503) M 1

Physics features:
(*) resistance (NFT 54-102 dec. 71)
Direction L >/= 17N/mm^2
Direction T >/= 13N/mm^2

Estiramento ruptura (NFT 54-102 dec. 71)
Direction L >/= 120 %
Direction T >/= 130 %

Breach resistance (NFT 54-140 oct. 84)
Direction L 1>/= 13N/mm
Direction L 2>/= 13N/mm
Direction T >/- 16N/mm

Dimensional contraction (NFT 54-105- abril. 73)
Direction L </= 4 %
After 5 min. a 70º C
Hardness shore D (NFT 51-109- julho. 81) 41+/- 2
Limit of temperature with no fragility
(NFT 54-110- april. 71) + 5ºC

Higrotermics features
Factor of termic condutivity 0.16 cal/m HºC
Termic factor K
Air space 2.7cm, isolation: K: 0.685
Air space 2.7 cm, polieturan foam 4 cm: K: 640
Hot resistance >/- 70º Celsius continuous.

N.B.: All the details in this information leaflet are in good faith; this comunication can not be a compromise or any warranty. This leaflet can be modified according the statistics results. DECE 90/100 Polimere/17/0Referencies GM 1000 & NOV 235 Referencies GM 1000 & NOV 235.

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PRODUCT DEFINITION

Strong points:

Aesthetics:
Tectend existes in 141 lacquered and matte, satin-like, metalic, translucent,lustrous, leather, marbled, printed, new-line (perforated).

Practical:
Tectend can be fitted and removed easily. The same to the lamps, holophotes, chimneys and also the isolating, climatization, the VMC, sprinklers and even central Heating ! All this in a few hours with no dirty or disorder.

Resistent:
Tectend thanks to its flexible structure absorbes any kind of impact. It is also resistent to dilatation, fissures and humidity (condensation, infiltration). No more paints or aureolas. To keep it shining, you must use a common sponge.

Safe:
Tectend is according all the rules of hygienics and safety.
(fire class M1)

Economical:
A fantastic relationship between quality and price.
TECTEND ceilings offer a 10 years warranty against any gap of soldering.

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PRODUCT DEFINITION

Several applications

Lodging:
In houses or flats, Tectend can be fitted quick and hygiecnly. If there are not paints, no problems with fissures. There is no maintenance. With or mithout a tradicional look, Tectend is always an esthetics, innovator and stable.

Commerce:
The shining look of Tectend offers you the perfect atmosphere to your business, allowing the instalation of all technical elements, (srpinklers, climatization, lamps, etc). It is on accordance with all the safety rules in shopping centers, studios and boutiques (class M1).

Offices:
As Tectend can be fitted and removed easily, it can help in the evolution of your technical nets, developing your company image.

Hotels:
Tectend offers interior intimacy, making easier the fitting of more sophisticated confort equipments.

Public places, managing, schools and polyvalent rooms
Hygienic, antifire, choc resistant, Tectend makes easier the fitting of achoustic and thermic insulation, the integration of electrica heating and ventilation. Tectend is antiseismic.

Technical places, springs, swimming-pools, pharmacy labs, agro nutritious, chemical labs, white rooms, hospitals, surgical rooms, kitchens, etc.:
water, air and dusty proof, Tectend is resistant to them ost part of chemical agents, to the humidity, condensation and infiltrations. Is not porous, easily clean and no contamination 100%. Tectend assures a perfect hygienics everywhere.

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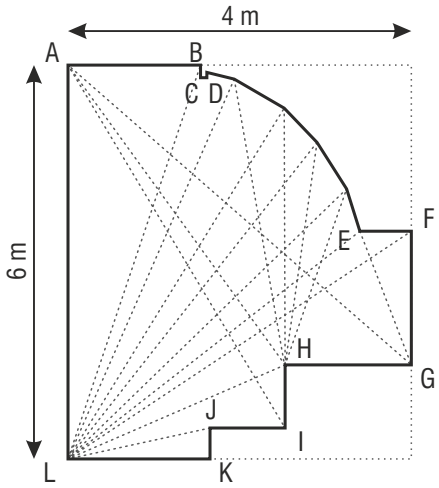
PRODUCT DEFINITION

TECHNICAL ILLUSTRATION



Surface of the limited rectangle
4m × 6m 0 24 m²
+ 12 angles
- area to deduct
if > 1m x 1.50 m = AREA TO INVOICE

Superface to discount
1m x 1.50m

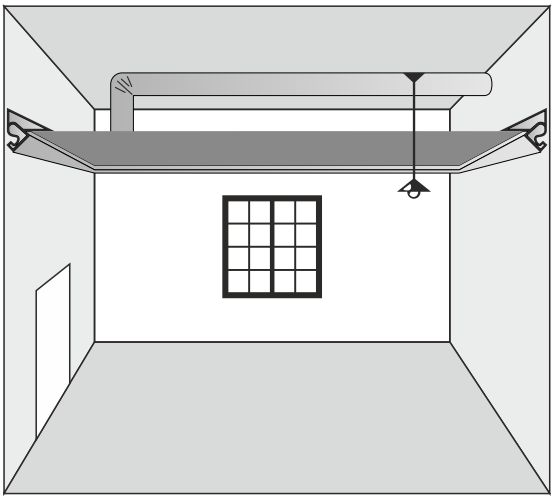
Your ceiling is a unique piece. Tectend made to measure and fitted the height you wish.

Its exclusive system offers you a perfect finishing onlu with 3 cm from the previous ceiling.

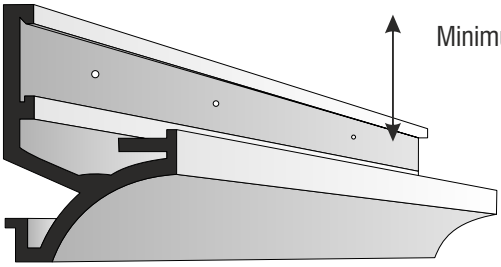
The cost of your ceilings depends on: The form of the peace. The area to invoice is the same as the piece after the cut of minimum 1m x 1.50 m.

The number of angles. The perimeter of fitting encasements and finishing. The details of the piece (lamps, holofots, VMC, central heatings, etc…)

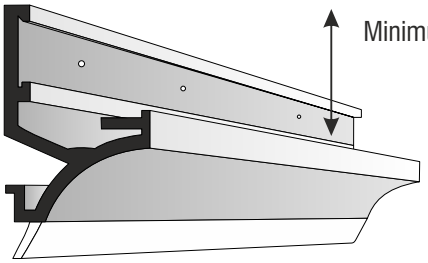
Your expert Tectend will make you a proposal trough a drawing or visiting you.



Classic Profile Normal



Classic Profile Watertight



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PROFILES
FEATURES

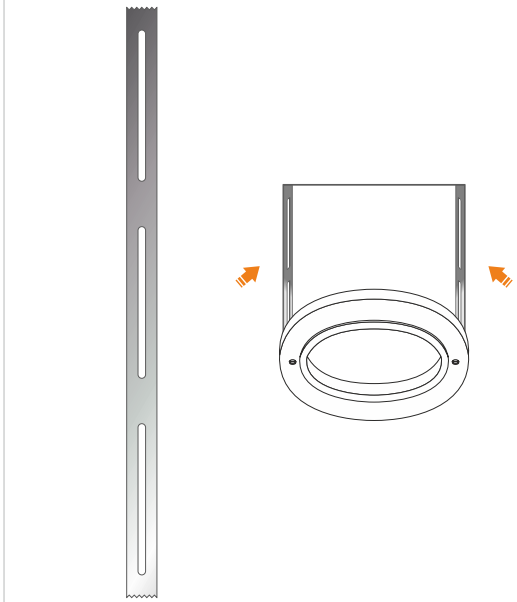
3.01 AL - PERFURADO

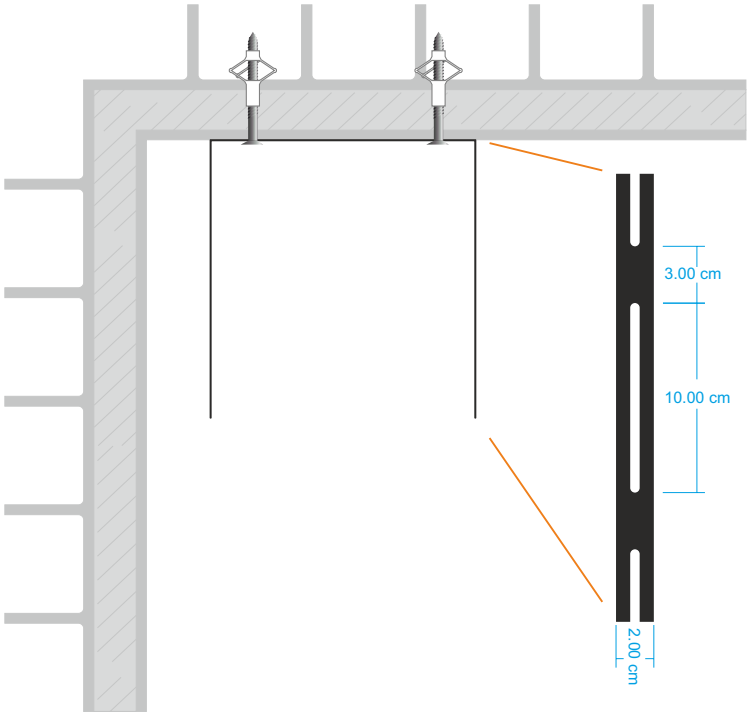
FUNCTIONALITY

Typically used in the elaboration of the supporting structures.
It allows the height regulation of the structure.

CHARACTERISTICS

Profile in pure aluminium with 10 cm rents and 3 cm gaps.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:5

NOTES

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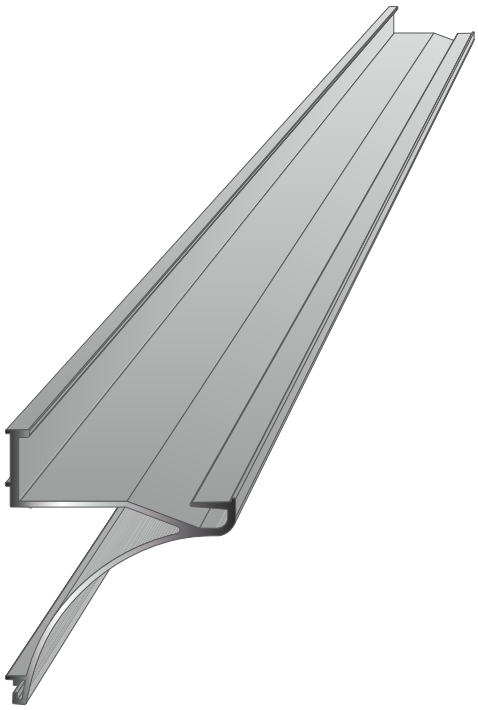
3.02 BIG CLASSIC SITAC

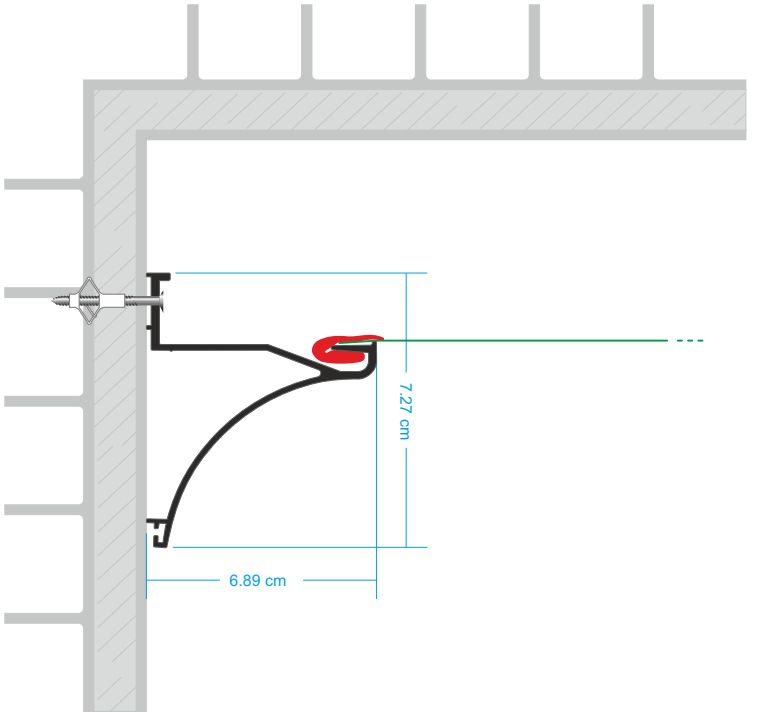
FUNCTIONALITY

Tipicamente utilizado nas aplicações onde é desejável a sua visibilidade. Este perfil permite um acabamento estético de uma decoração clássica dando o efeito tradicional da «meia cana».

CHARACTERISTICS

Perfil em alumínio lacado ou acetinado, disponível em várias cores. Sistema de fixação lateral. Após a sua aplicação, o tecto tenso fica suspenso a uma distância mínima de 2.70 cm da placa. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:2

NOTES

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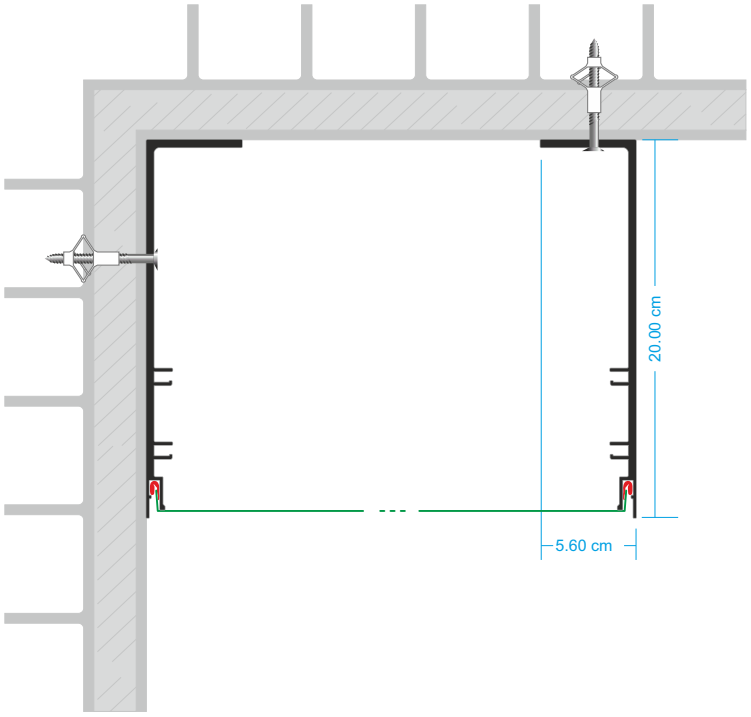
3.03 BIG SANCA 20

FUNCTIONALITY

Tipicamente utilizado nas aplicações onde é necessário iluminação suspensa de grande intensidade. Possibilita também a aplicação de uma tela superior com a finalidade de proteger a inferior de sugidades, de forma a criar condições para que esta fique sempre limpa.

CHARACTERISTICS

Perfil em alumínio anodizado resistente com sistema de multi-fixação. Após a sua aplicação, o tecto tenso fica suspenso a uma distância mínima de 20.05 cm da placa. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:4

NOTES

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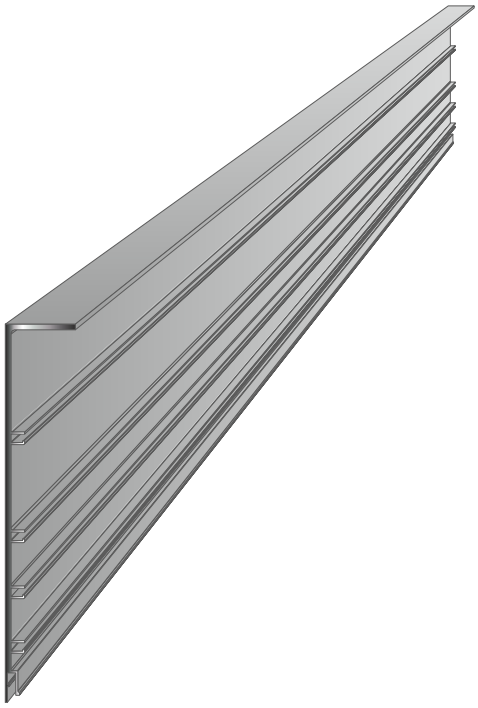
3.04 BIG SANCA 27

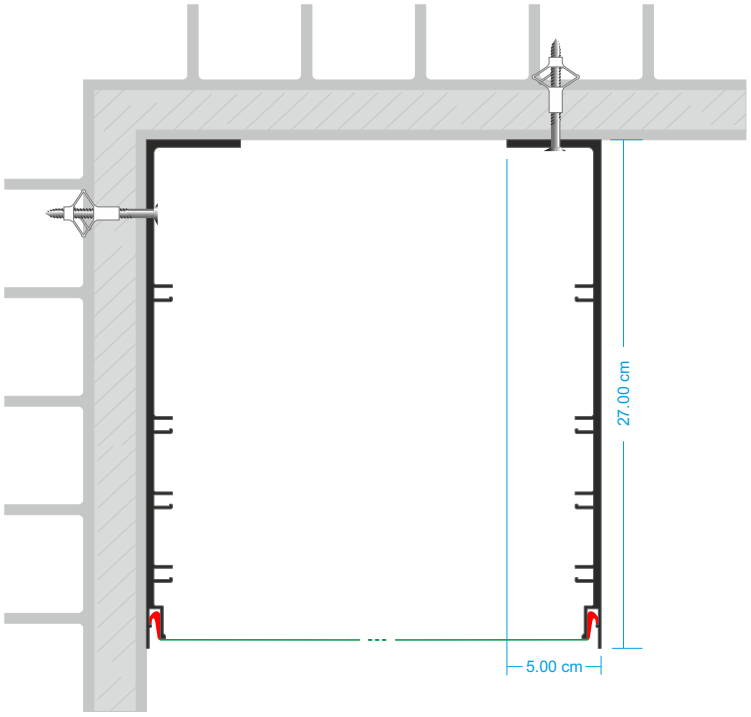
FUNCTIONALITY

Tipicamente utilizado nas aplicações onde é necessário iluminação suspensa de grande intensidade. Possibilita também a aplicação de uma tela superior com a finalidade de proteger a inferior de sugidades, de forma a criar condições para que esta fique sempre limpa.

CHARACTERISTICS

Perfil em alumínio anodizado resistente com sistema de multi-fixação. Após a sua aplicação, o tecto tenso fica suspenso a uma distância mínima de 27.00 cm da placa. Este perfil em relação ao Big Sanca 20, tem maior variação de distâncias entre a tela superior e a inferior. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:4

NOTES

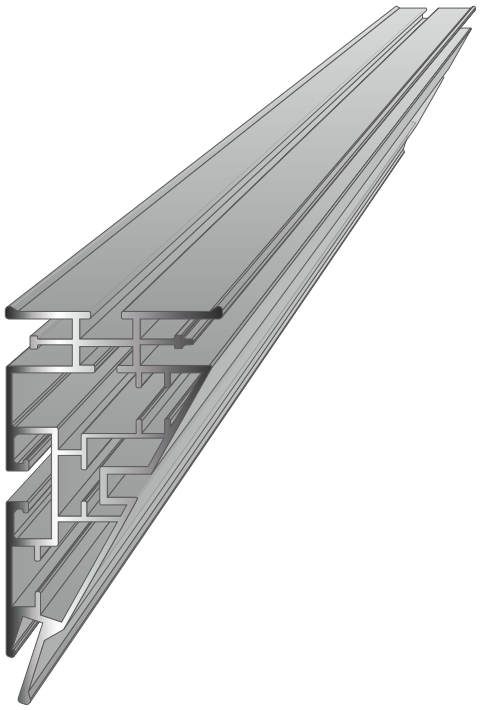
3.05 BIG TBL LUZ

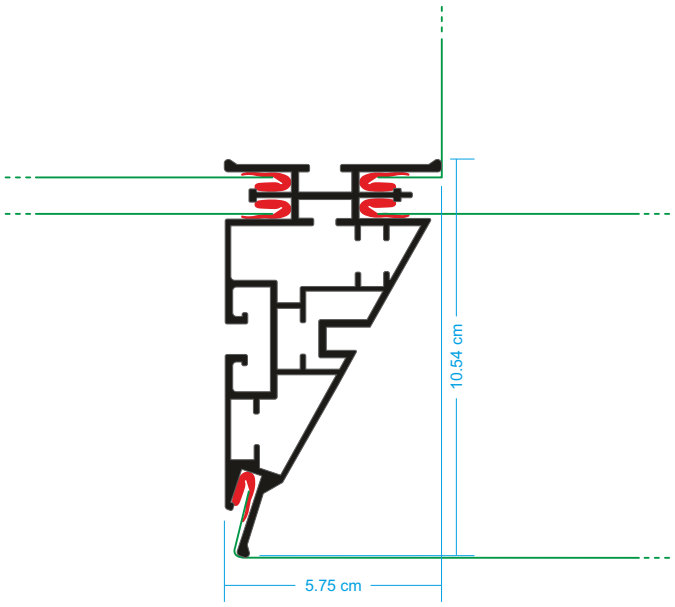
FUNCTIONALITY

Tipicamente utilizado nas aplicações onde não é desejável a sua visibilidade. Este perfil tem a particularidade de ser amovível. Tem ainda a vantagem de evitar sombras devido à forma em «cunha». Também permite a aplicação de várias telas em simultâneo.

CHARACTERISTICS

Perfil em alumínio anodizado com bastante resistência. Sistema de fixação suspensa e amovível, não havendo necessidade de o fixar à parede ou placa. Perfil com acabamento invisível.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:2

NOTES

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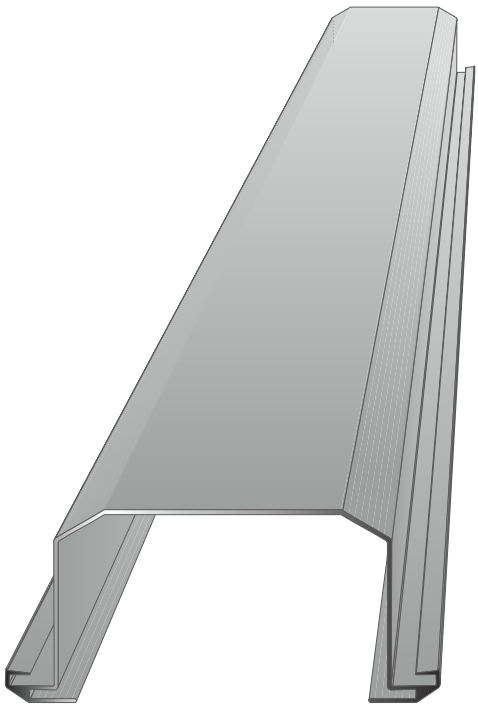
3.06 CALHA TÉCNICA

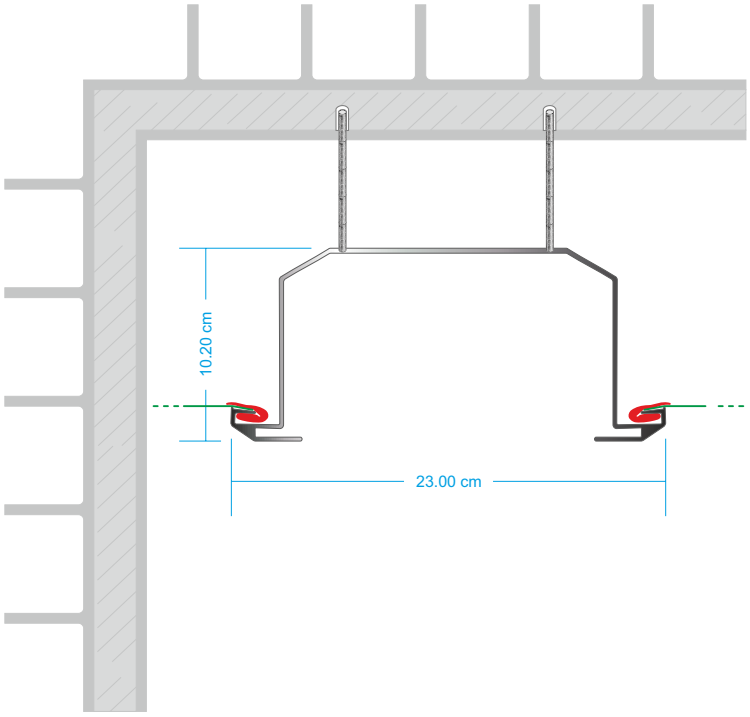
FUNCTIONALITY

Em alumínio, este acessório assume diversas funções: Possibilita a criação de um ponto de luz contínuo. Permite a fixação de mangas de ar condicionado, sprinklers, som e outros. O acabamento da calha é feito com grelha quadriculada ou acrílico opalino.

CHARACTERISTICS

Perfil em alumínio com principal aplicação em zonas industriais. Sistema de fixação superior (a cima do perfil). Após a sua aplicação, o tecto tenso fica suspenso a uma distância mínima de 8,40 cm. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:4

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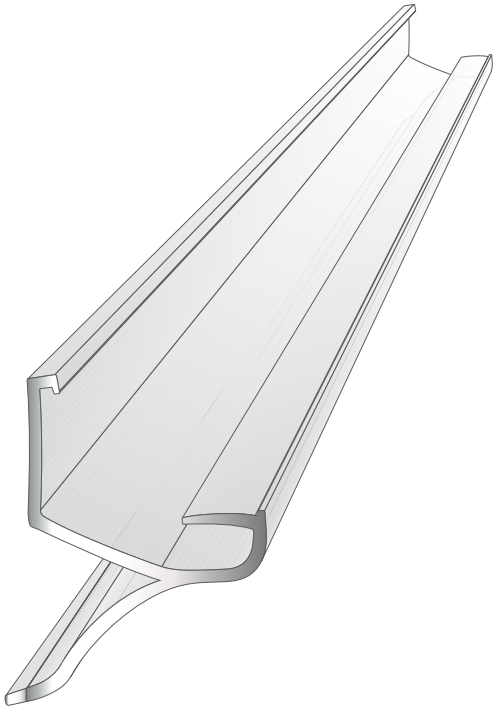
3.07 CLASSIC WATERTIGHT

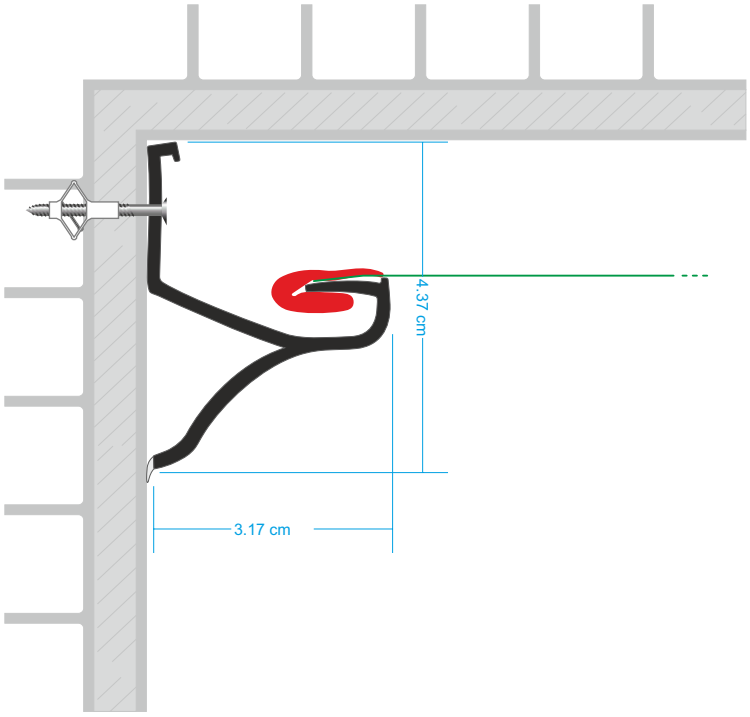
FUNCTIONALITY

It has the same decorative features as the classic profile. Its membrane avoids the air circulation and impurities, creating a tight box in the ceiling.

CHARACTERISTICS

Decorative profile in PVC with lateral fixation system.
After fitted the stretch ceiling remains 1,8 cm from the slab.
This measure can change fixing the profile more distant from the slab.





MATERIAL	STATUS	LEGEND	SCALE
PVC	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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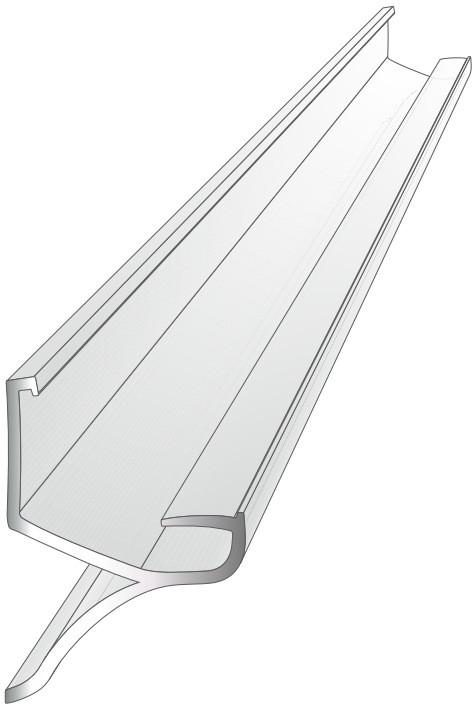
3.08 CLASSIC NORMAL

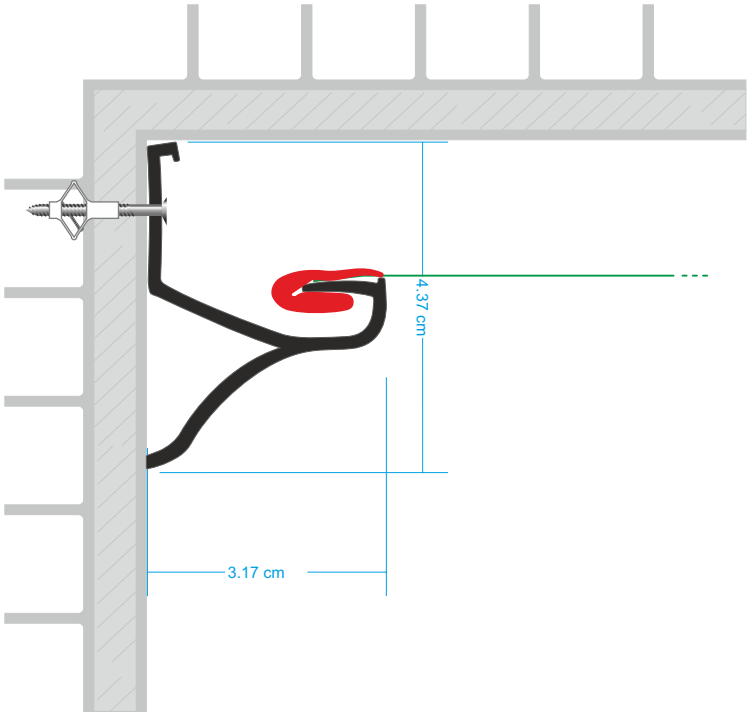
FUNCTIONALITY

Typically used when you wish a special decorative effect, through the round and visible surface.

CHARACTERISTICS

Decorative profile in PVC, with lateral fixation system.
After fitted the stretch ceiling remains 1,8 cm distant.
This measure can change, fixing the profile more distant from the slab.





MATERIAL	STATUS	LEGEND	SCALE
PVC	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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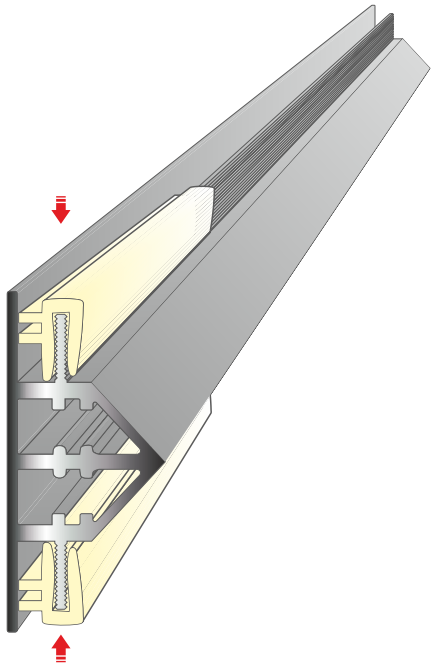
3.09 CLIPAGEM DIRECTA BIT PVC

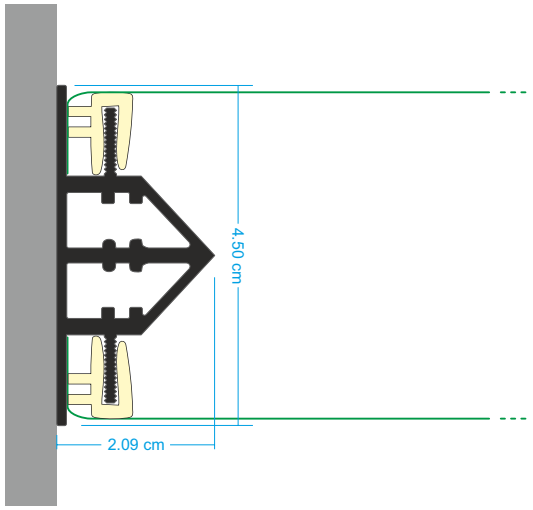
FUNCTIONALITY

Utilizado normalmente em pequenos espaços ou candeeiros que necessitam de ter manutenção interior. Permite a aplicação de uma segunda tela para protecção da principal. Tem a particularidade também de evitar sombreados na tela.

CHARACTERISTICS

Perfil de alumínio com acabamento em PVC. Amovível e invisível.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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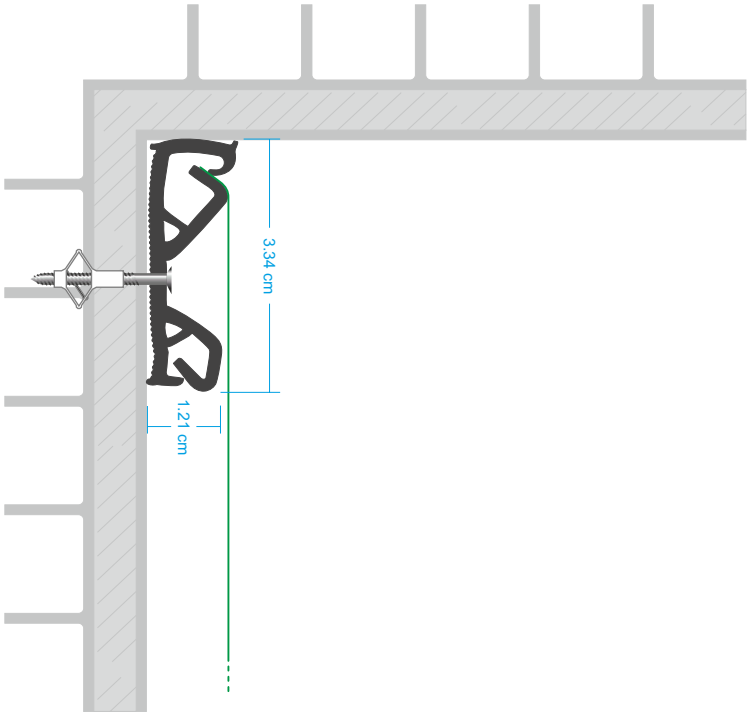
3.10 CLIPAGEM DIRECTA

FUNCTIONALITY

Embora esteja mais vocacionado para aplicar telas decorativas em paredes, pode ser utilizado também em tectos. Permite aplicar telas resistentes sem uniões, deixando uma caixa de ar, no mínimo de 0.8 cm. Com a vantagem de poder ser também retro iluminado

CHARACTERISTICS

Perfil em PVC disponível em duas cores (preto e branco). Com acabamento invisível e fixação lateral ou superior.



MATERIAL	STATUS	LEGEND	SCALE
PVC	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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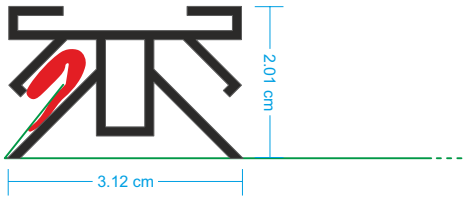
3.11 DPL

FUNCTIONALITY

Tipicamente utilizado na elaboração de aberturas com ângulos a 90º, proporciona uma poupança recursos significativa ao permitir a elaboração de aberturas em 1/4 tempo habitual.

CHARACTERISTICS

Perfil tubular duplo em alumínio anodizado para fixação suspensa através do uso de escoras. A sua grande vantagem consiste na rapidez com que podem ser elaboradas aberturas com ângulos a 90º.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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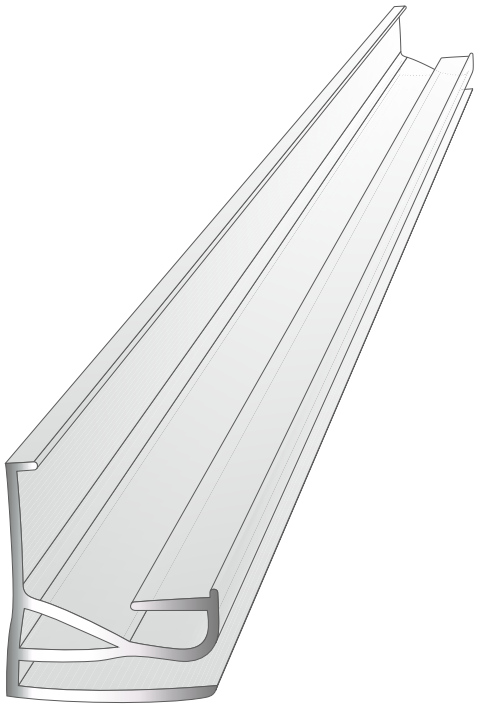
3.12 DT - VENTEC

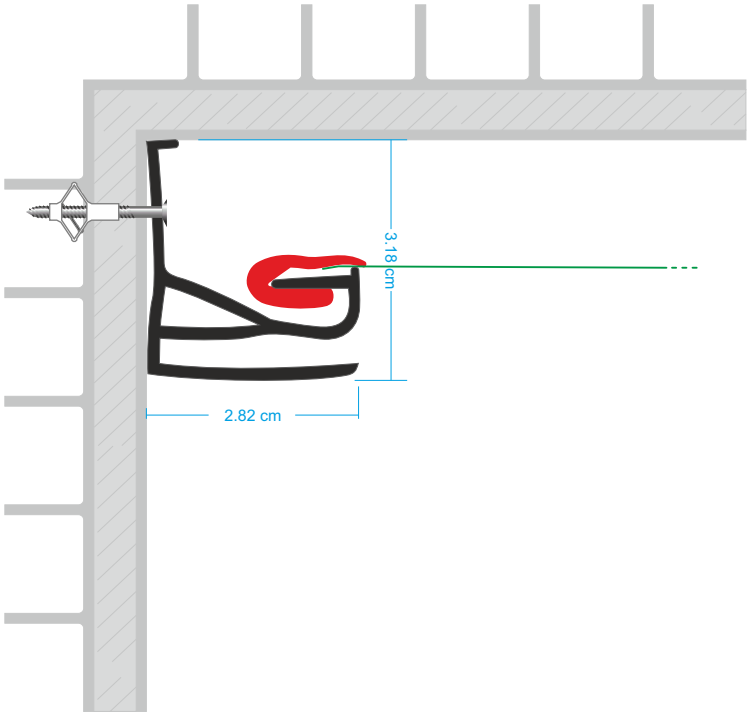
FUNCTIONALITY

Typically used when it is important the decorative effect, adapted by the right and visible surface.
Owing its ventilation system, the durability of the ceiling is increased.

CHARACTERISTICS

Decorative profile in PVC, with lateral fixation system.
After fitted the stretch ceiling 1,7 cm from the slab.
This measure can change fixing the profile more distant from the slab.





MATERIAL	STATUS	LEGEND	SCALE
PVC	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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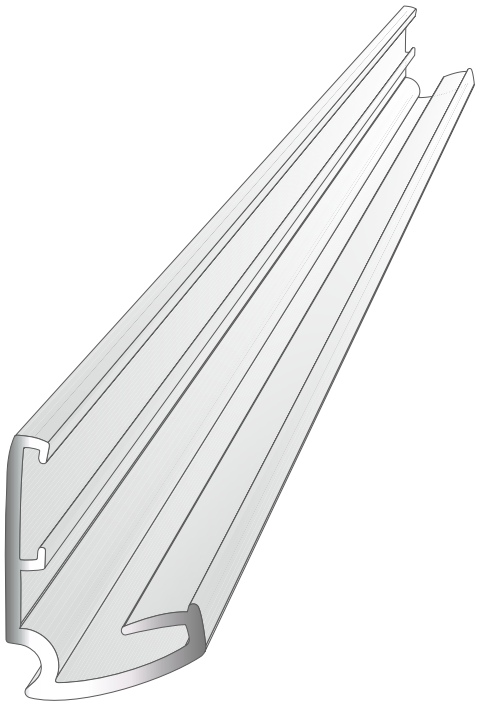
3.13 DTS - VENTEC

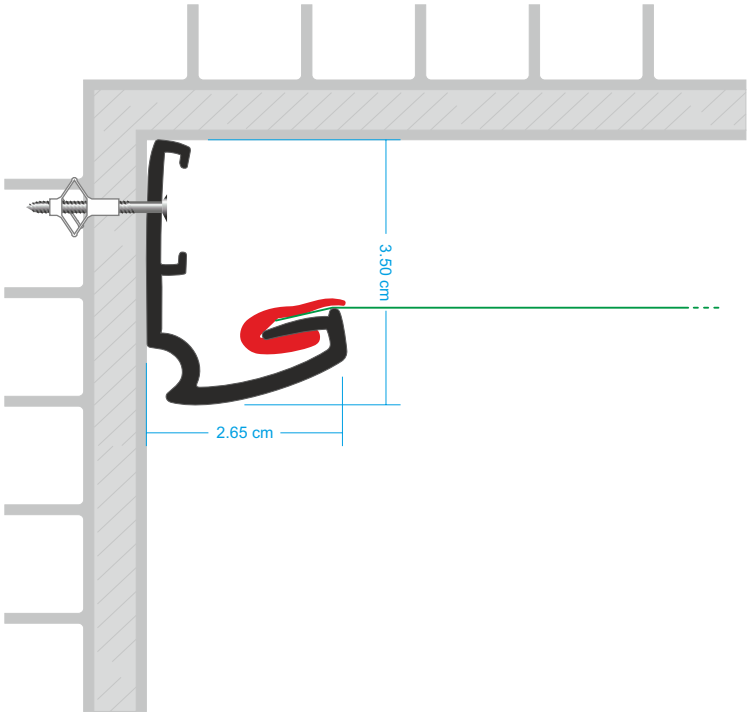
FUNCTIONALITY

Utilizado quando se pretende obter uma pequena moldura no contorno do tecto.

CHARACTERISTICS

Perfil em PVC com sistema fixação lateral. Após a sua aplicação, o tecto tenso fica suspenso a uma distância mínima de 2,20 cm da placa. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.





MATERIAL	STATUS	LEGEND	SCALE
PVC	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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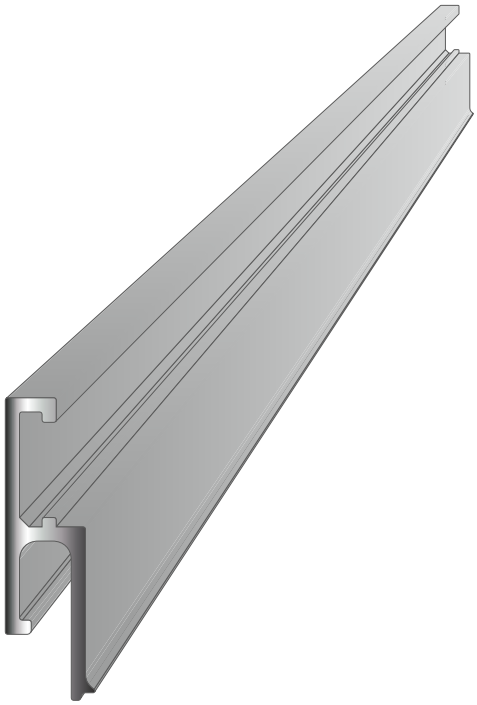
3.14 I/FL

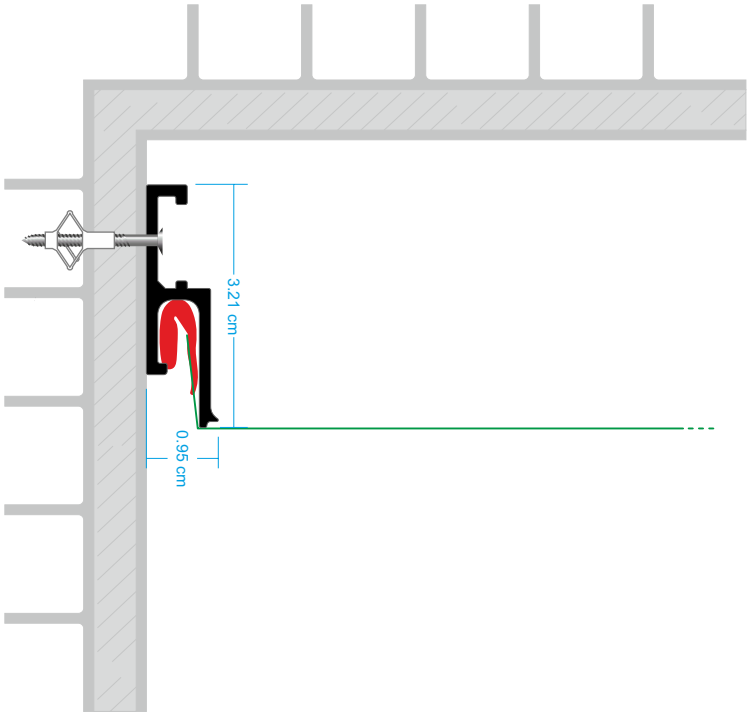
FUNCTIONALITY

Typically uses like an invisible profile, it allows a beautiful finishing.

CHARACTERISTICS

Profile in anodized aluminium with lateral fixing. After fitting the stretch ceiling remains at minimum 3,21 cm from the slab and covering almost all the profile wich becomes invisible. This distance can change, depending onthe height or decorative effects.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

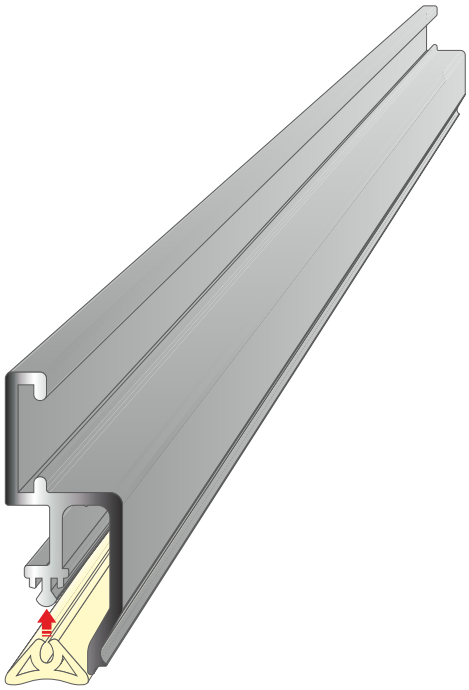
3.15 I/FL - ARCLASS

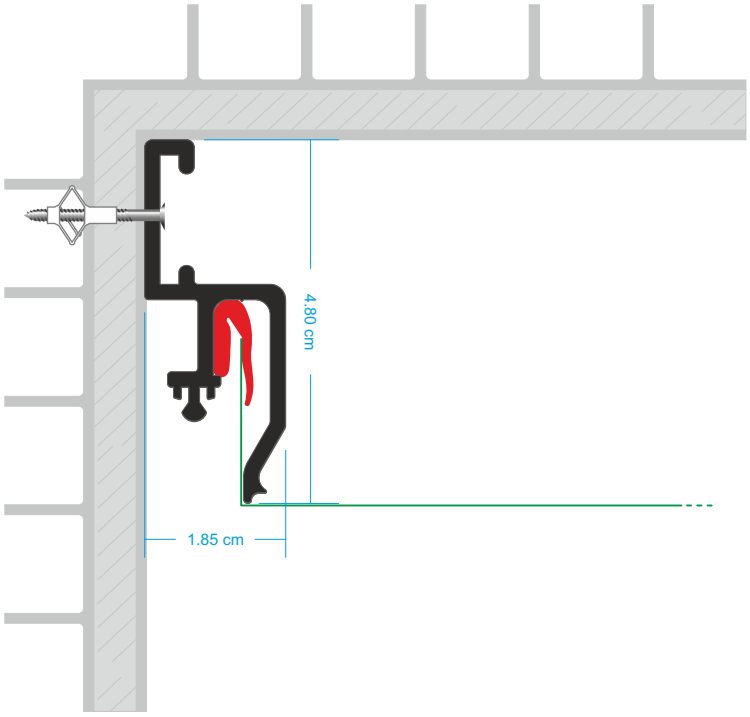
FUNCTIONALITY

It has the same features the profile I/FL-SITAC. It was concepted for those cases the requirement is the classic profile.

CHARACTERISTICS

Profile in anodized aluminium with lateral fixation. After fitting the stretch ceiling remains at minimum 4,80 cm from the slab and covering almost all the profile.
For a more perfect finishing this profile has an integrated system with a PVC bite and it becomes invisible.
It must be used only with the classic harpoon.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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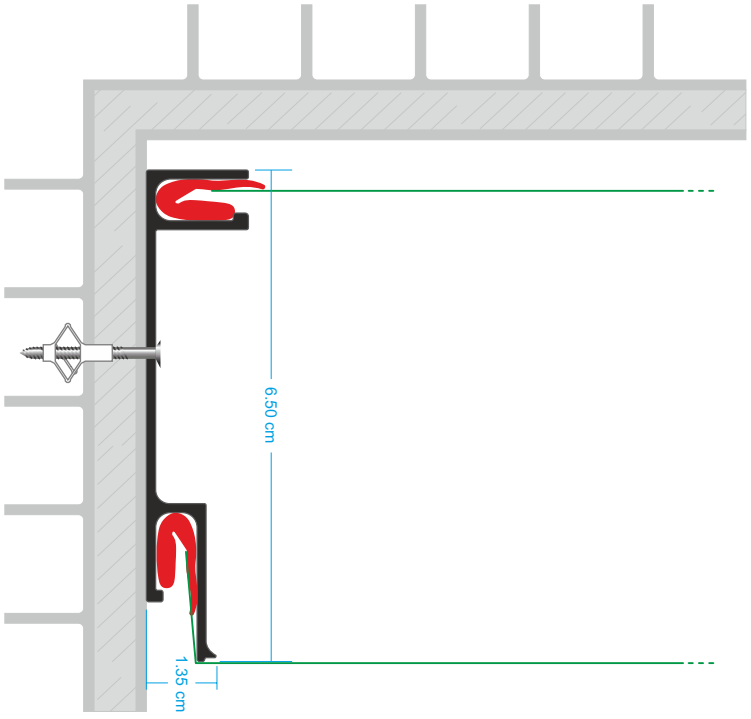
3.16 I/FL - DUPLA TELA

FUNCTIONALITY

Tipicamente utilizado em claraboias, com possibilidade de colocação de uma segunda tela para protecção da tela principal.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação lateral. Acabamento invisível. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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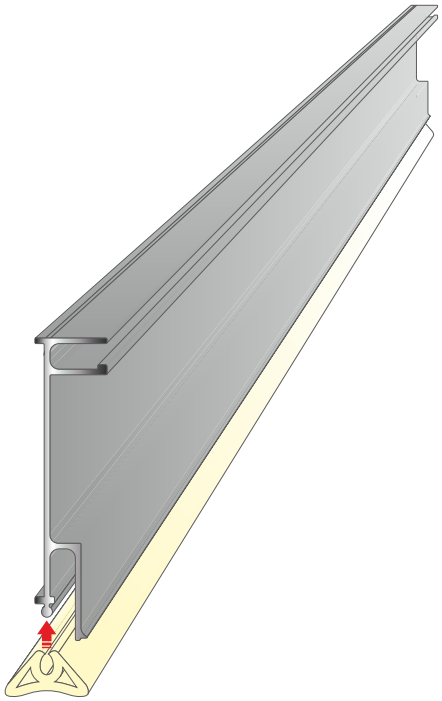
3.17 I/FL - DUPLA TELA SITAC

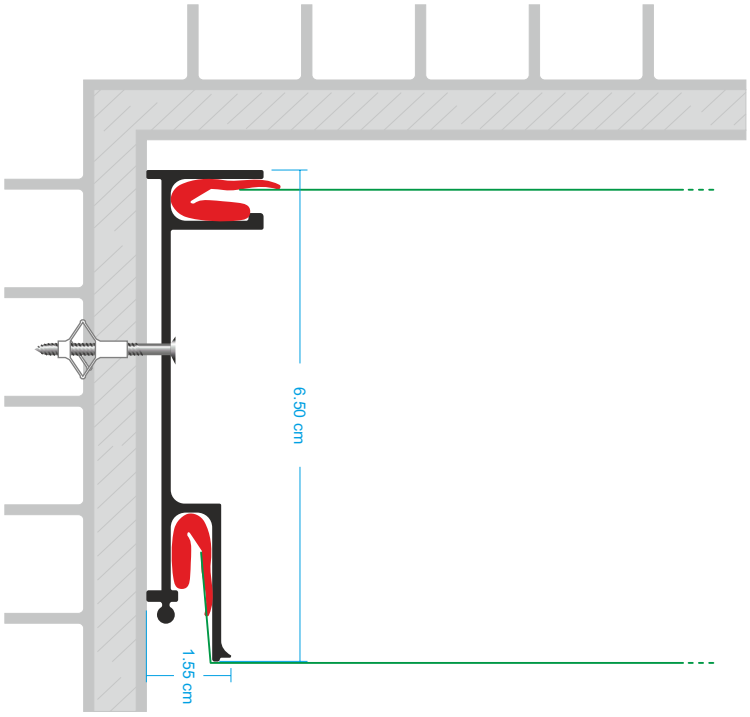
FUNCTIONALITY

Tipicamente utilizado em claraboias, com possibilidade de colocação de uma segunda tela para protecção da tela principal de forma a esta ficar isenta de quaisquer sugidades. Pode ter um acabamento liso com a aplicação de um bit, para que não se veja a alheta.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação lateral. Acabamento invisível. Esta distância é variável em função do pé direito ou efeito decorativo pretendido, bastando para tal fixar o perfil a uma maior distância da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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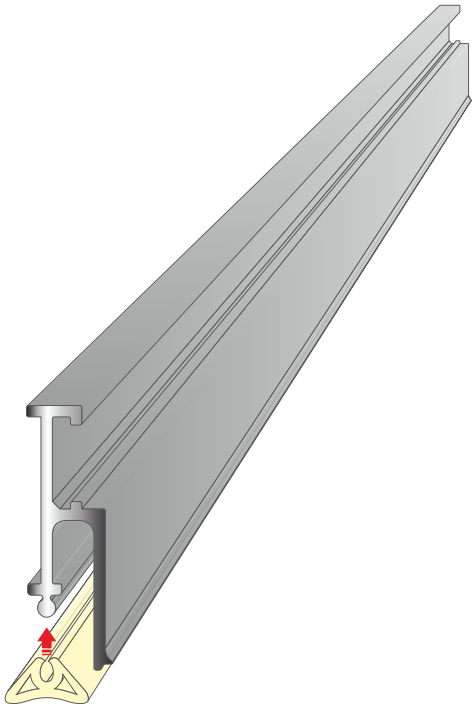
3.18 I/FL - SITAC

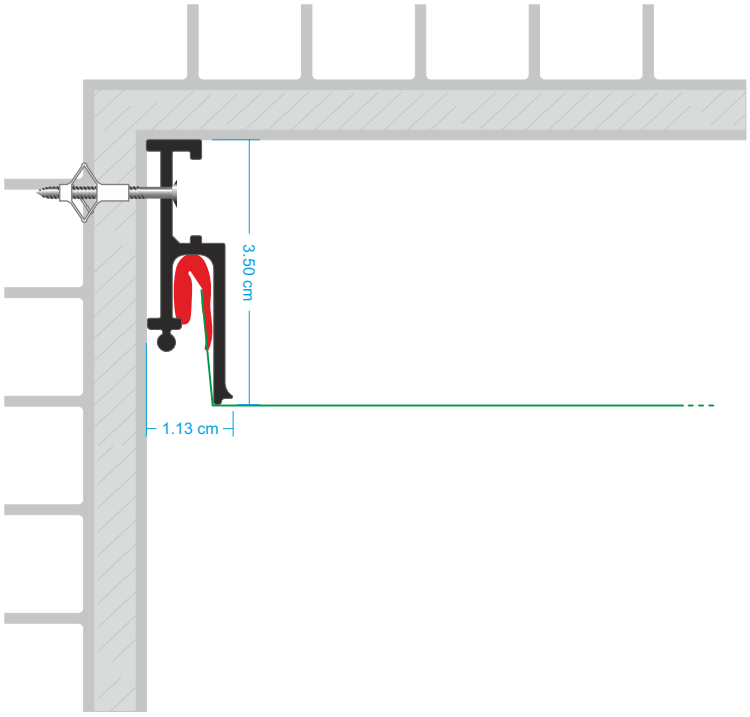
FUNCTIONALITY

Tipically used when the profile must be absolutely invisible.This total invisibility can be made trough the using of an integreated system of finishing lateral fixing.

CHARACTERISTICS

Profile in anodized aluminium with lateral fixing, after fitting the stretch ceiling remains at minimum 3,50 cm from the slab and covering almost all the profile, wich becomes invisible. This distance can change , depending on the height or the decorative effect.
This profile has a ventilation system that increases the durability of the stretch ceiling, creating the same temperature in both faces. For a more and perfect finishing, this profile has an integrated system with a PVC bite and it becomes invisible.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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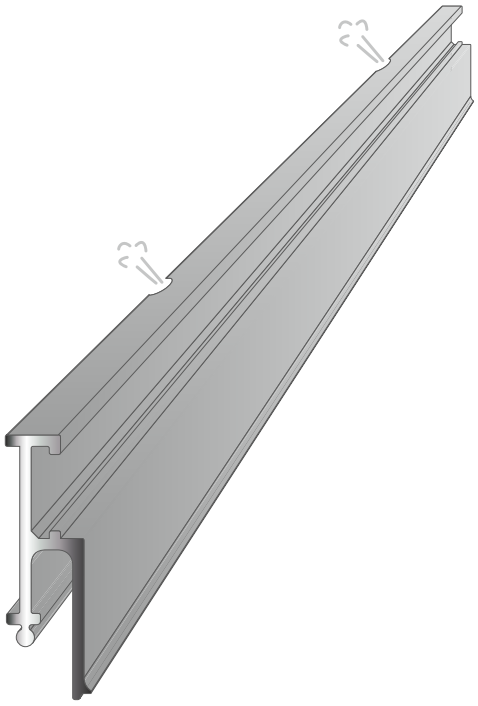
3.19 I/FL - VENTEC

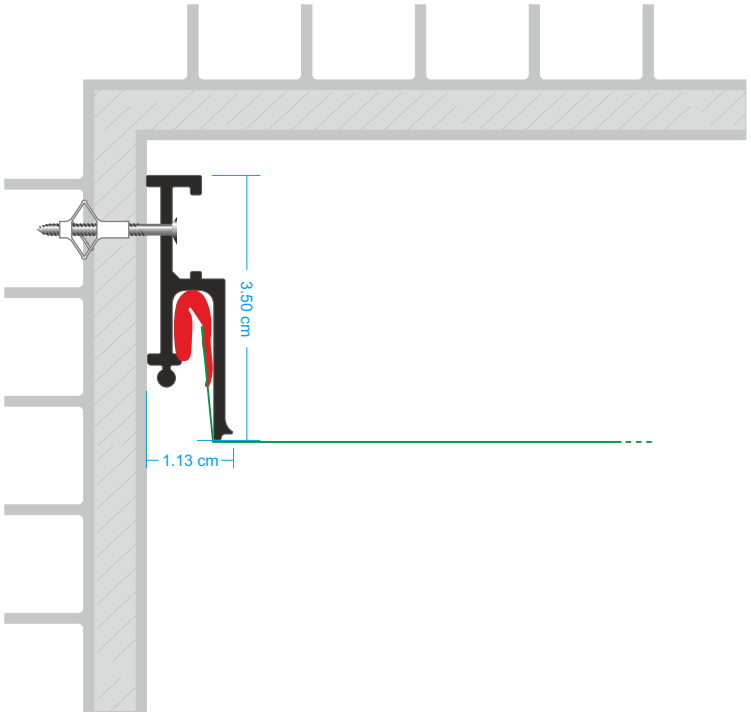
FUNCTIONALITY

Typically uses like an invisible profile, it allows a beautiful finishing.

CHARACTERISTICS

Profile in anodized aluminium with lateral fixing. After fitting the stretch ceiling remains at minimum 3,50 cm from the slab and covering almost all the profile wich becomes invisible. The distance can change, depending on the height or decorative effects.
This profile has a ventilation system that increases the durability of the stretch ceiling, creating the same temperature in both faces.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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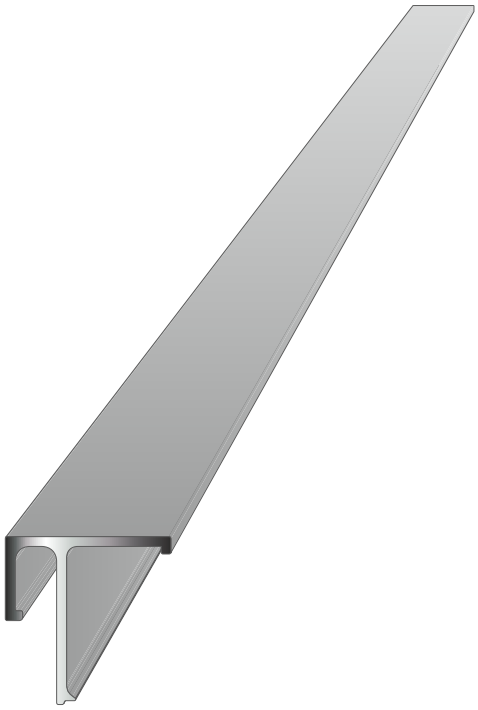
3.20 I/FT

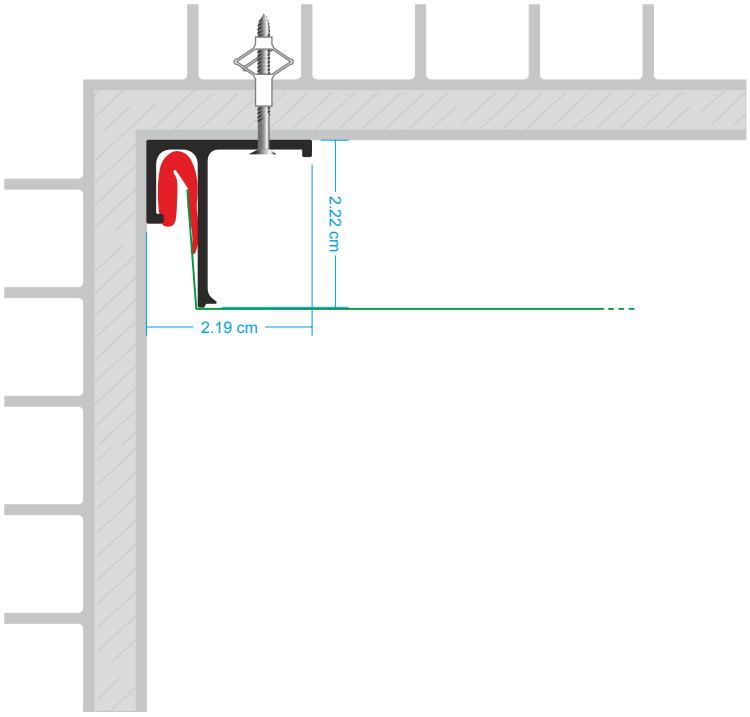
FUNCTIONALITY

Typically used when the profile must be invisible. This profile attains the right aesthetics results.

CHARACTERISTICS

Profile in anodized alumimium with direct fixing to the slab.
The stretch ceiling remains minimum 2,22 cm from the slab and covering all the profile. The profile becomes than invisible.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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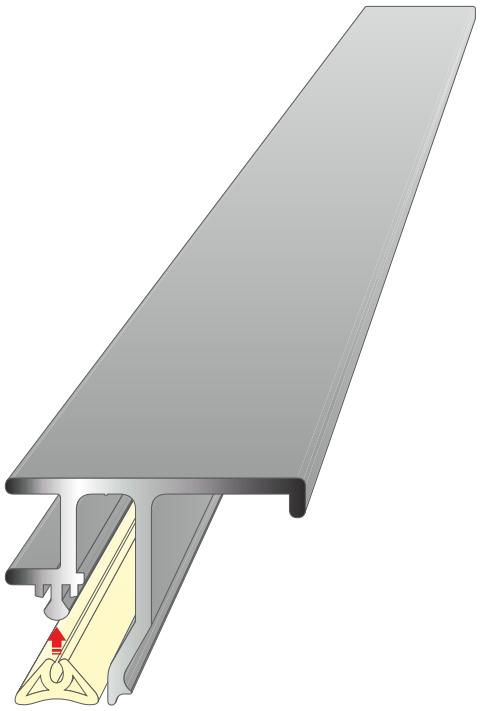
3.21 I/FT ARCLASS

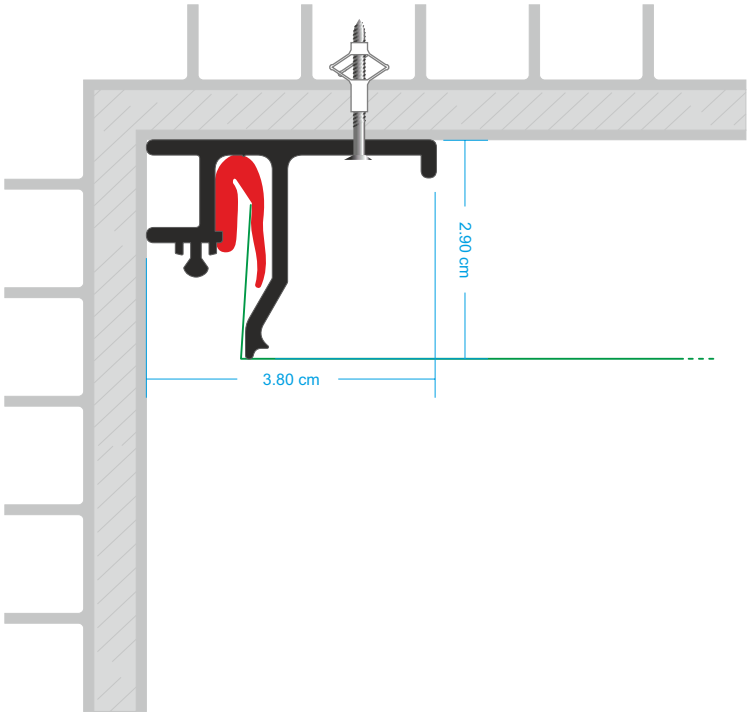
FUNCTIONALITY

Typically used when the profile must be invisible, it was concepted for the cases when the convencional profile can not be used because of technical requirements.

CHARACTERISTICS

Profile in anodized aluminium with direct fixation to the salb. The stretch ceiling remains suspended at minimum 2,90 cm from the slab and covering all the profile wich becomes invisible.
For a more perfert finishing this profile has as integrated system with a PVC bite and it becomes invisible. It must be used only with the classic harpoon.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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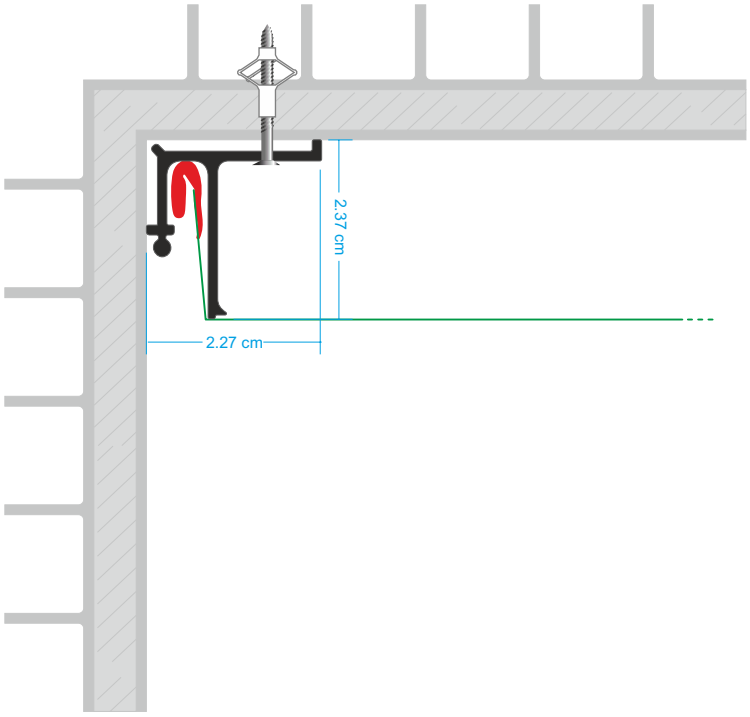
3.22 I/FT SITAC

FUNCTIONALITY

Aplicável em situações quando há necessidade de maior aproveitamento de pé direito. Quando se pretende que o tecto ocupe espaço possível. Tem ainda a vantagem de permitir um acabamento com bit, tornando a alheta invisível.

CHARACTERISTICS

Perfil em alumínio anodizado com acabamento invisível. sistema de fixação directa na placa. O tecto fica a uma distância mínima de 2,37 cm da placa e cobre o perfil na sua quase totalidade.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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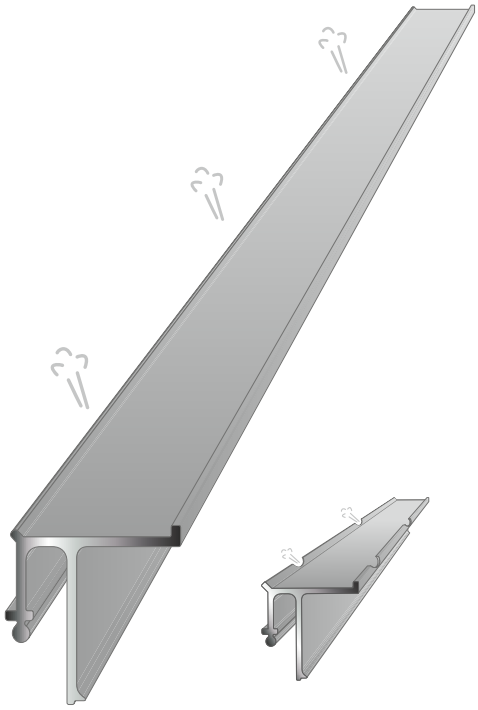
3.23 I/FT VENTEC

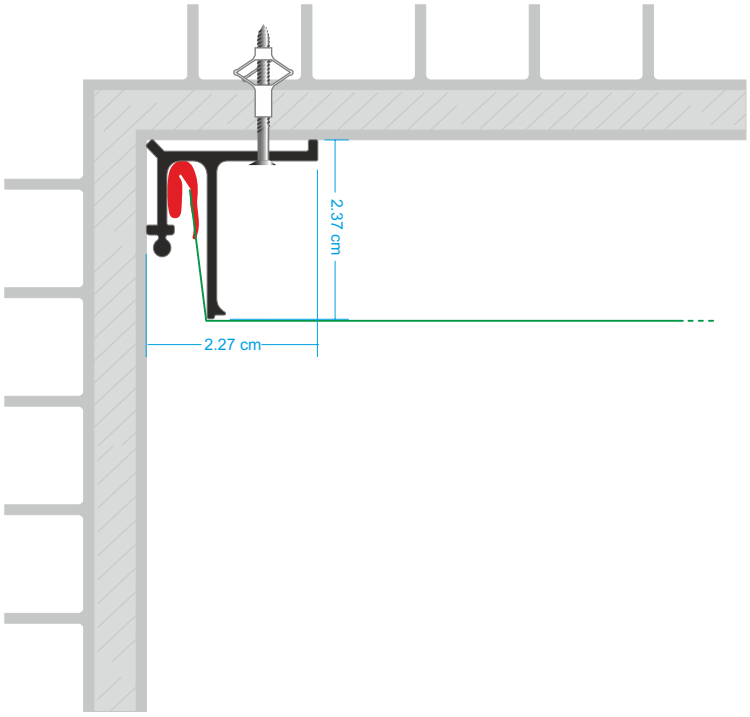
FUNCTIONALITY

Typically used when the profile muste be invisible, it increases the durability of the ceiling, creating the same temperature in both faces.

CHARACTERISTICS

Profile in anodized aluminium with direct fixation to the slab.
The stretch ceiling remains suspended at minimum 2,37 cm from the slab and covering almost all the profile, wich becomes invisible.
This profile has a ventilation system that increases the durability of the ceiling, creating the same temperature in both faces.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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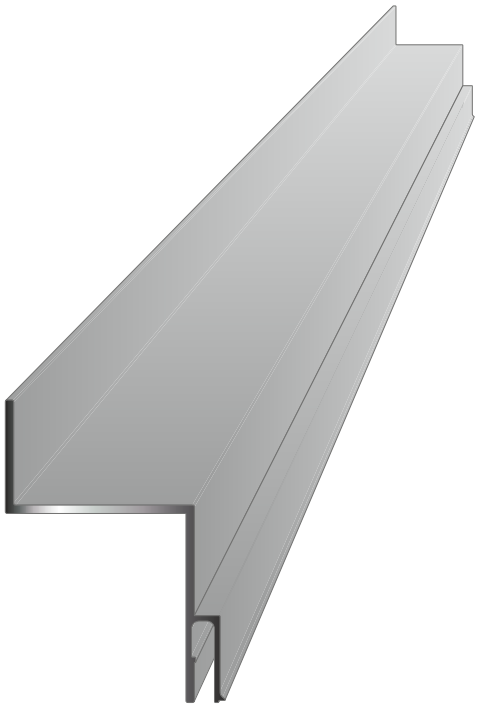
3.24 MINI SANCA

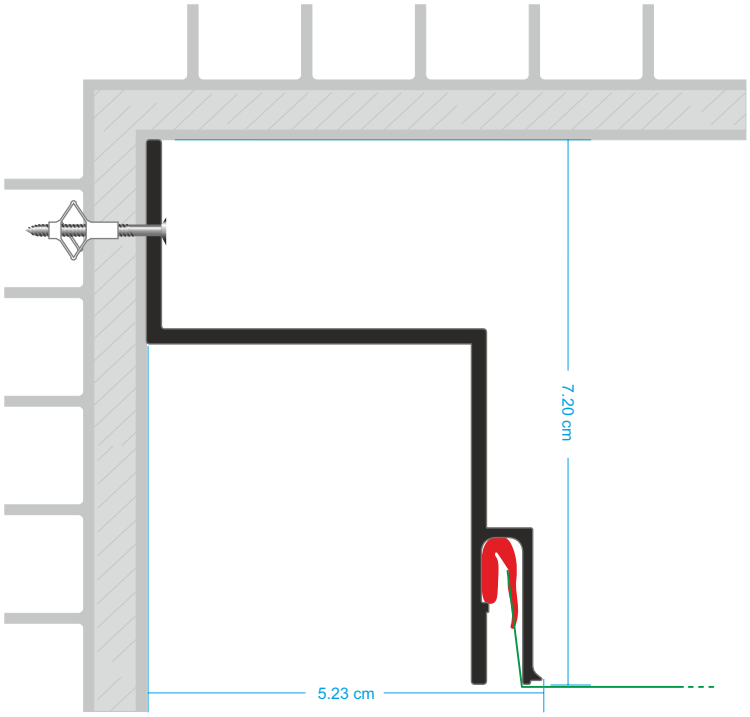
FUNCTIONALITY

Este perfil foi concebido para aplicações onde sistemas de luz se tornem invisíveis. O sistema de fitas de leds tem a particularidade de ocupar o menor espaço possível.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação lateral. Após a sua aplicação, o tecto fica suspenso a uma distância mínima de 7,20 cm da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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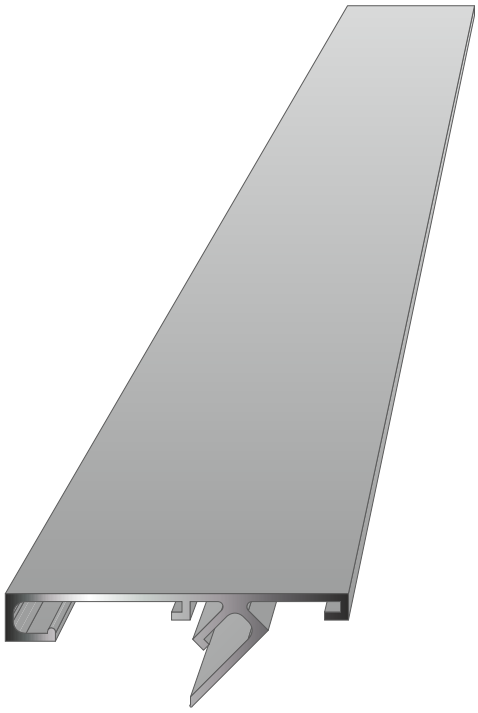
3.25 MP - S

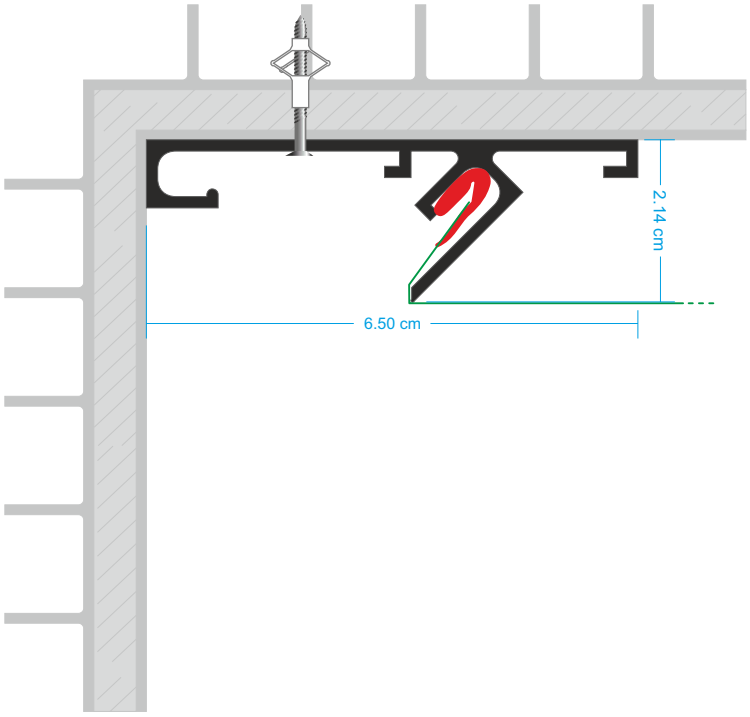
FUNCTIONALITY

Typically used to join the big tsretch ceilings, it desguises the gab betweens ceilings and the separation becomes almost imperceptible.

CHARACTERISTICS

Assemblage of anodized aluminium profiles with direct fixation on the slab.
After fitted, the stretch ceiling remains suspended at minimum 2,14 cm from the slab and 3,5 latteraly.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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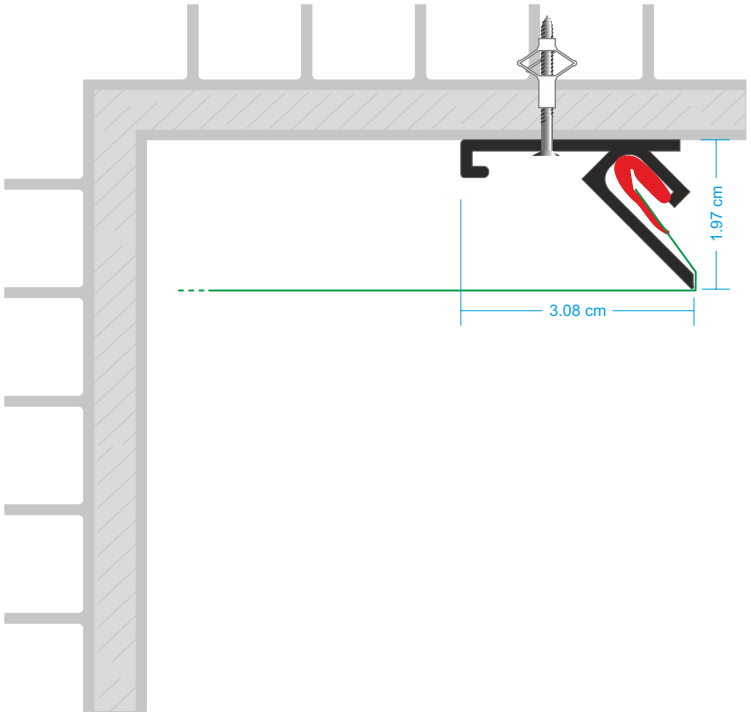
3.26 MPX1

FUNCTIONALITY

Typically used in the situations that you need a better finisching in the openings 90º angles (ex.: armours, air-conditioned, etc.)

CHARACTERISTICS

Profile in anodized aluminium with direct fixing to the slab.
After fitting the stretch ceiling remains at minimum 1,97 cm from the slab and covering all the profile. The profile becomes than invisible.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

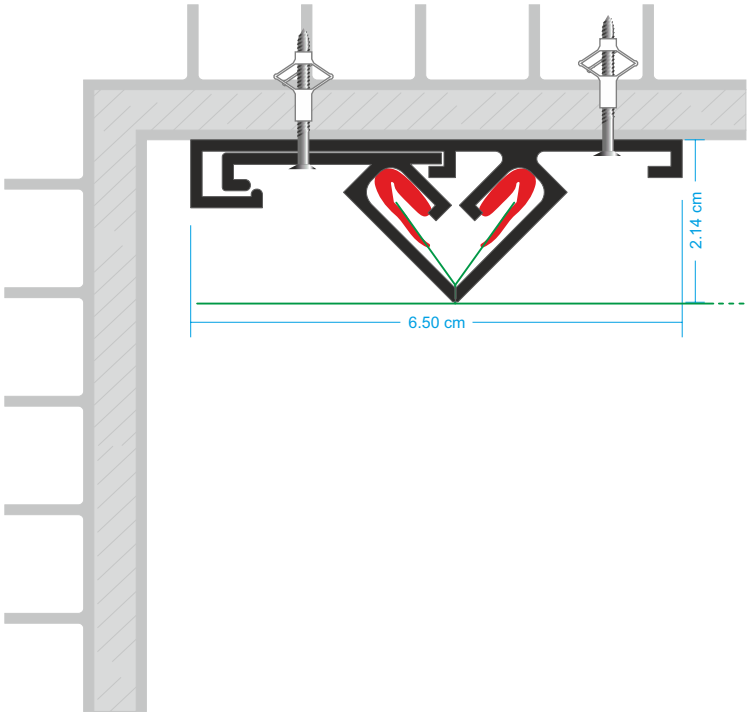
3.27 MPX2

FUNCTIONALITY

Tipicamente utilizado para a união de tectos tensos de grandes dimensões, dissimula o espaço existente entre os tectos resultando numa separação quase imperceptível.

CHARACTERISTICS

Assemblage of anodized aluminium profiles with direct fixing on the slab.
After fitting, both sections remain suspended at minimum 2,14 cm and covering all the profiles.
Those profiles become than invisible.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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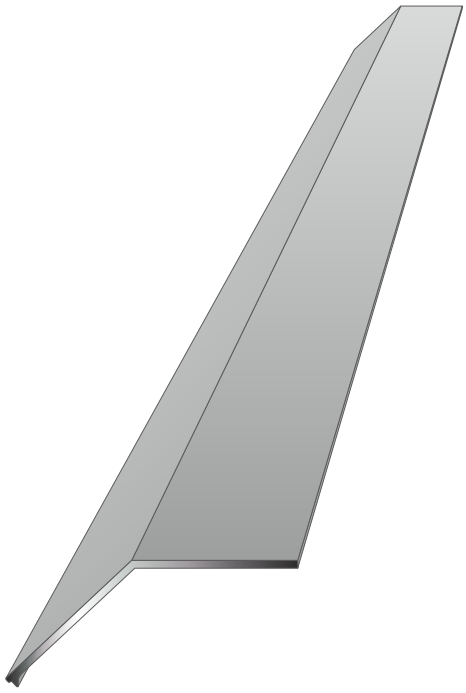
3.28 QVA

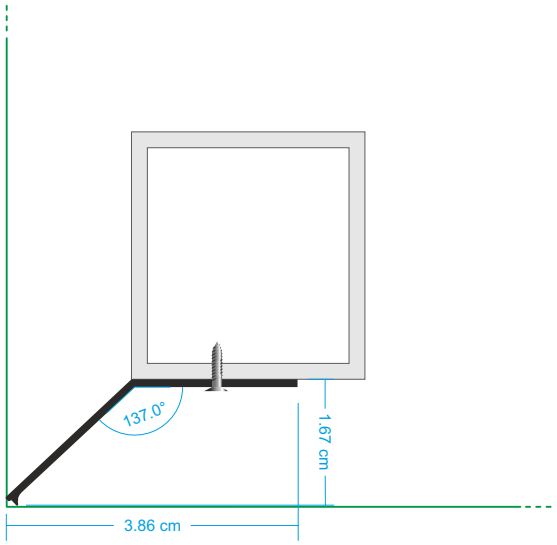
FUNCTIONALITY

Typically used in the criation of aesthetics effects, like coves, different levels or oblique and other decoration.
The fixing depends of the special effect you need.

CHARACTERISTICS

Profile in anodized aluminium to direct fixation to the slab or support.
The stretch ceiling remains suspended about 1,67 cm.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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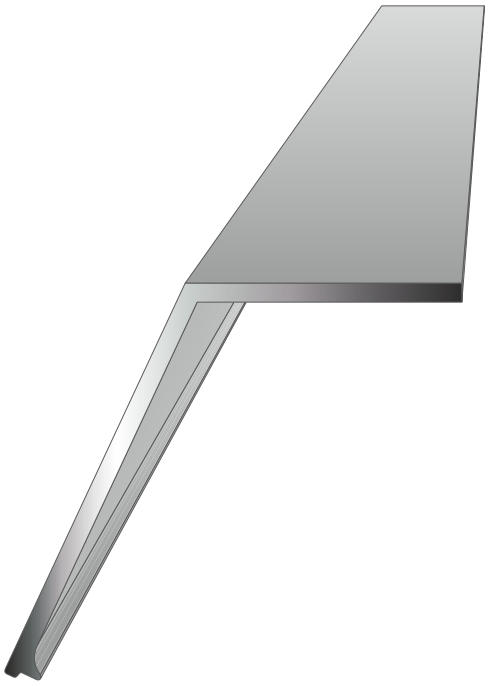
3.29 QVA BIG

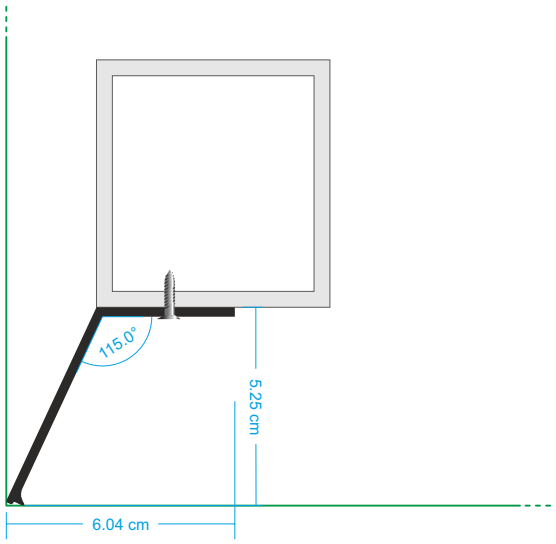
FUNCTIONALITY

Tipicamente utilizado na criação de efeitos estéticos tais como sancas, tectos desnivelados ou oblíquos e efeitos decorativos. A sua fixação depende do efeito pretendido.

CHARACTERISTICS

Perfil em alumínio anodizado com 2.5 mm de espessura para fixação directa à placa ou suporte suspenso. O tecto tenso fica suspenso a uma distância de 5,25 cm.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:2

NOTES

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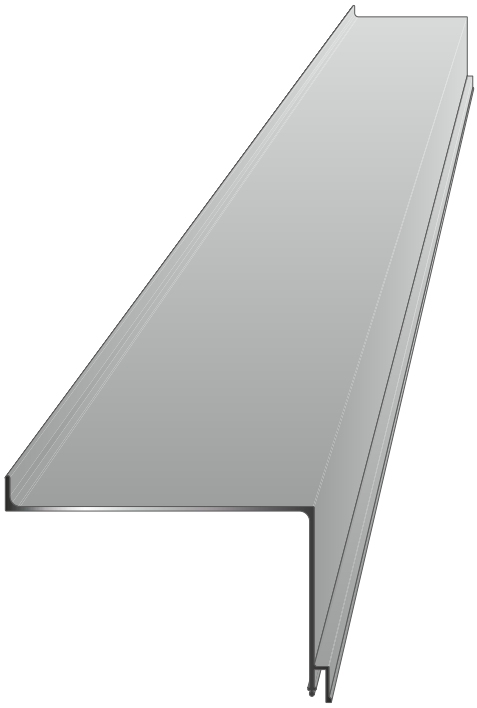
3.30 SANCA INVISÍVEL AO MURO

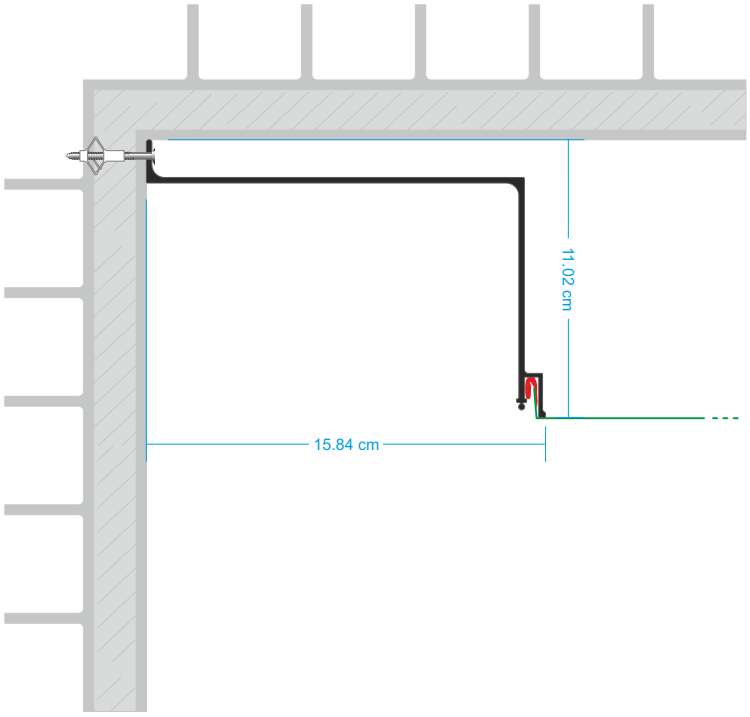
FUNCTIONALITY

Tipicamente utilizado para quando se pretende ter luz indirecta. É possível também instalar sistemas de som, ar condicionado ou outras aplicações.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação lateral. Após a sua aplicação, o tecto fica suspenso a uma distância mínima de 11,02 cm da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:3

NOTES

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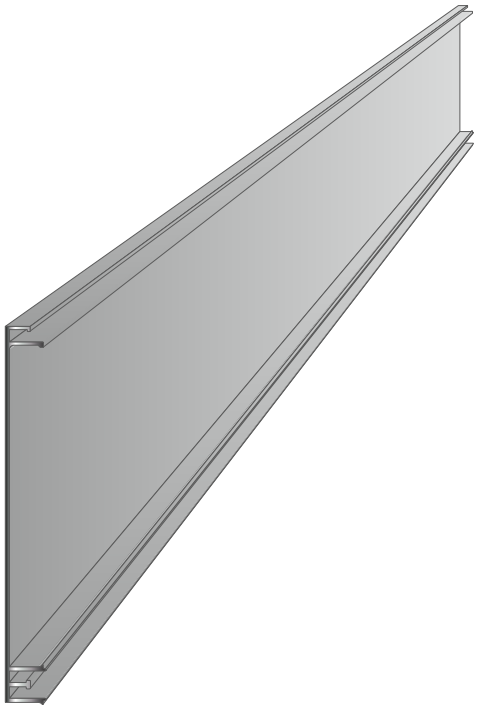
3.31 SANCA VH

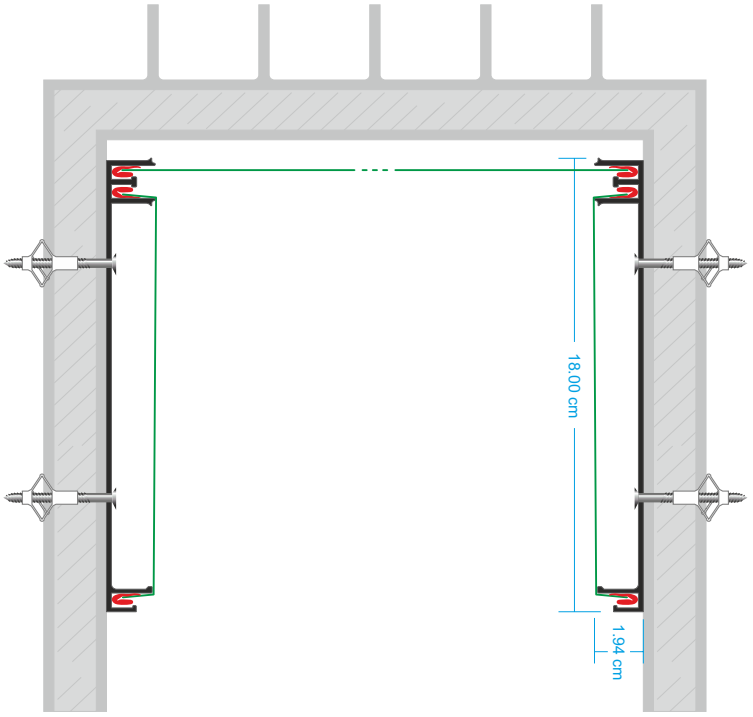
FUNCTIONALITY

Utilizado para quando se deseja telas verticais sem iluminação. Evita escoamentos deixando um ótimo acabamento.

CHARACTERISTICS

Perfil em alumínio anodizado para fixação lateral ou superior.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum		FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:3

NOTES

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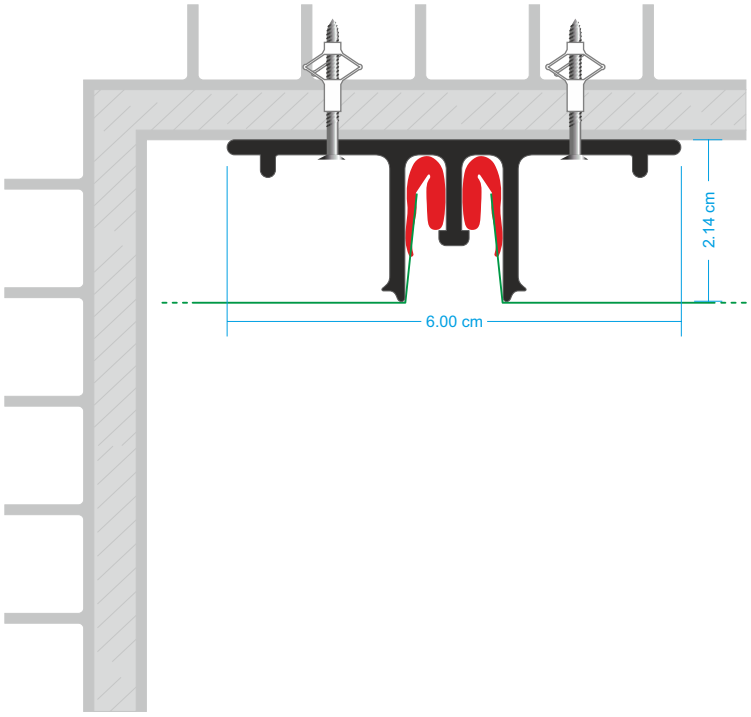
3.32 SP

FUNCTIONALITY

Typically used to join the big stretch ceilings, shows a finishing featuring a visible space between canvas with 1,27 cm and also an inferior frieze in anodized aluminium with 4,1 mm large.

CHARACTERISTICS

Profile in anodized aluminium to direct fixation to the slab.
After fitting both sections of stretch ceiling remain suspended at minimum 2,07 cm from the slab and covering almost all the profile.



MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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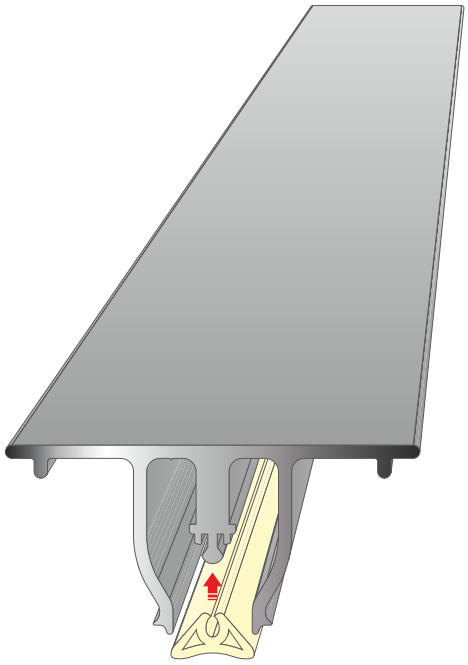
3.33 SP - ARCLASS

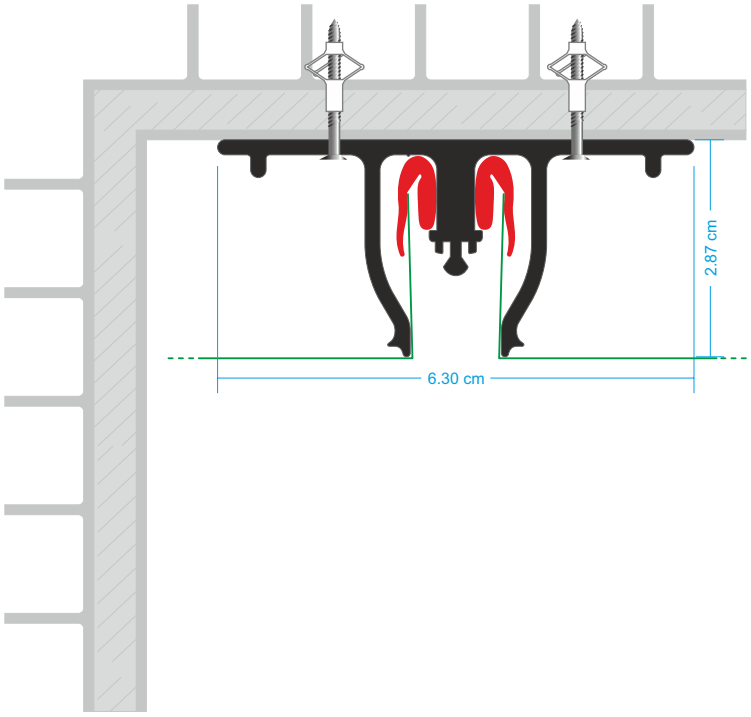
FUNCTIONALITY

This profile was concepted to the cases where technical requirements hinder the use of SP - SITAC profile, although it has the same features.

CHARACTERISTICS

Profile in anodized aluminium with direct fixation to the slab.
After fitting, the two sections of the stretch ceiling remains at minimum 2,87 cm from the slab.
It can be totaly invisible, with the integration of a PVC bit, it muste be used just when the technical requirements ask for a classic harpoon.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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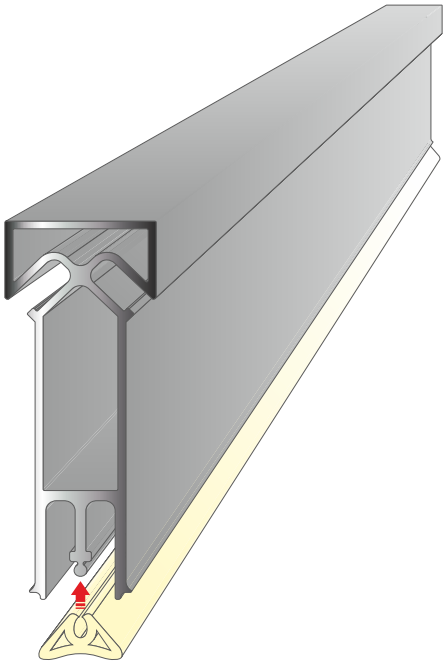
3.34 SP - DUPLA TELA

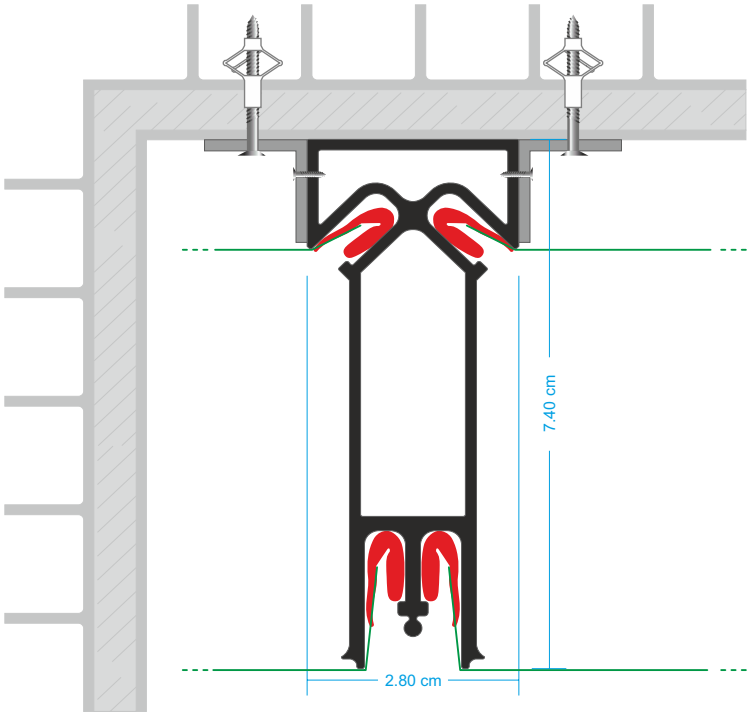
FUNCTIONALITY

Tipicamente utilizado em grandes superfícies se desejar ter grandes espaços com luz indirecta e ainda a possibilidade de aplicar uma segunda tela para protecção da principal.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação superior. Após a sua aplicação, o tecto tenso principal fica uma distância mínima de 7,40 cm da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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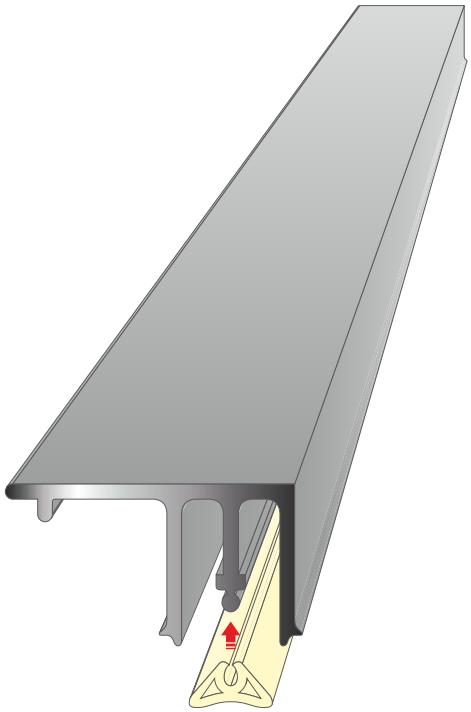
3.35 SP - MINI

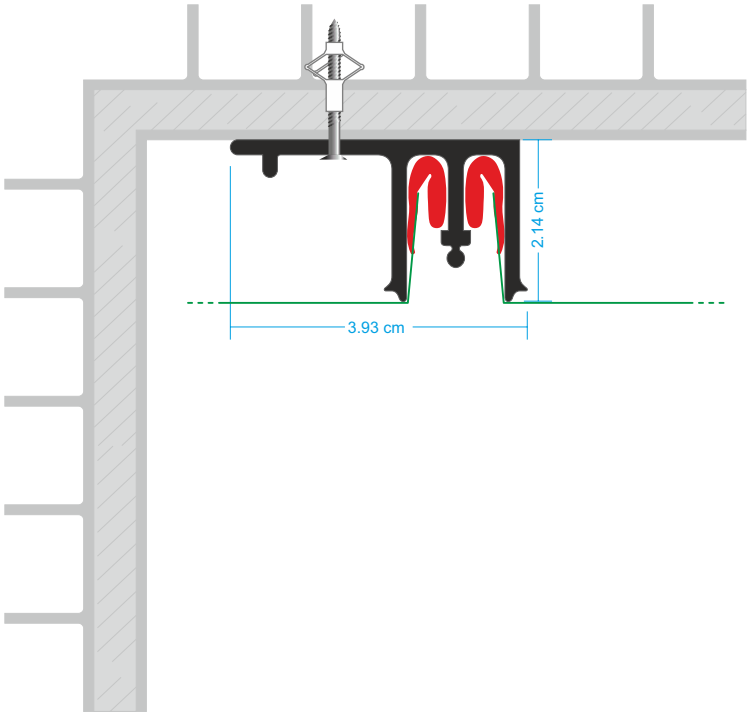
FUNCTIONALITY

Tipicamente utilizado em sítios que haja necessidade de quebras nas telas ficando com a particularidade de se tornarem independentes. Poderá ser também aplicado um bit para permitir um melhor acabamento e ocultar a separação.

CHARACTERISTICS

Perfil em alumínio anodizado com sistema fixação lateral ou superior. Após a sua aplicação, o tecto tenso principal fica uma distância mínima de 2,14 cm da placa.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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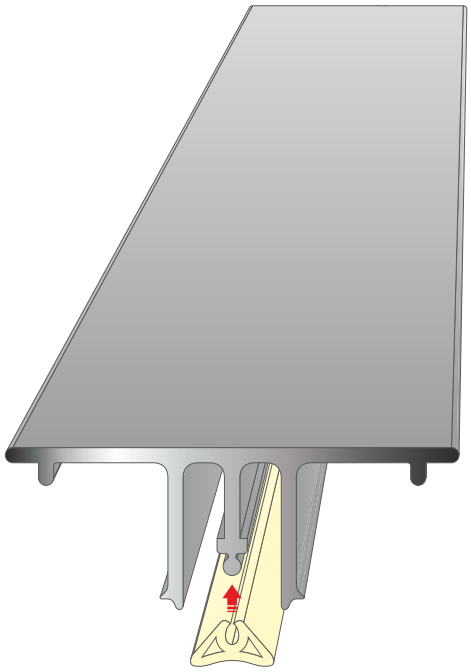
3.36 SP - SITAC

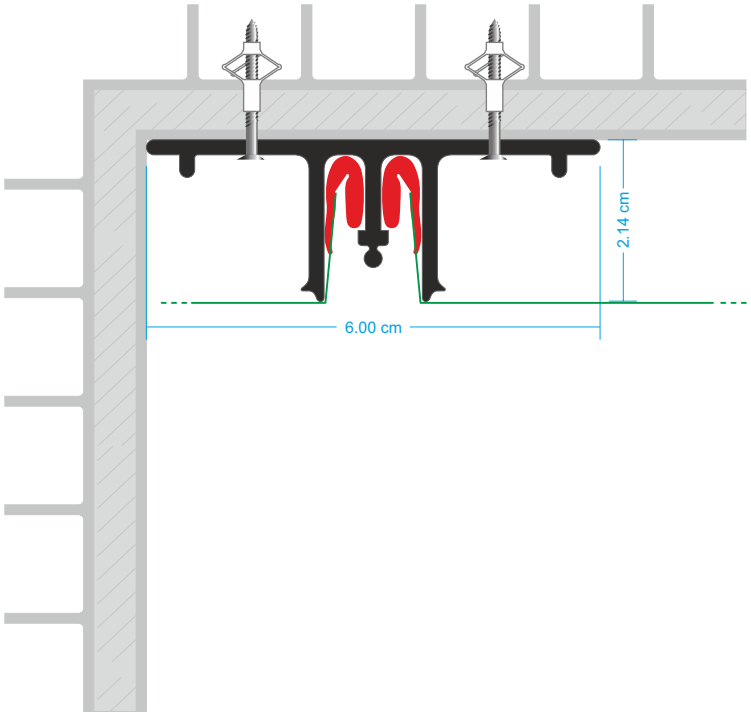
FUNCTIONALITY

Typically used to join the big stretch ceilings, shows a finishing featuring a visible space between canvas with 1,72 cm and also a inferior frieze in anodized aluminium with 4,1 mm large.

CHARACTERISTICS

Profile in anodized aluminium with direct fixing to the slab.
After fitting, both sections of stretch ceiling remains suspended at minimum 2,07 cm from the slab.
To get a better finishing, this profile can use an integrated system to become totaly invisible through one bite in PVC.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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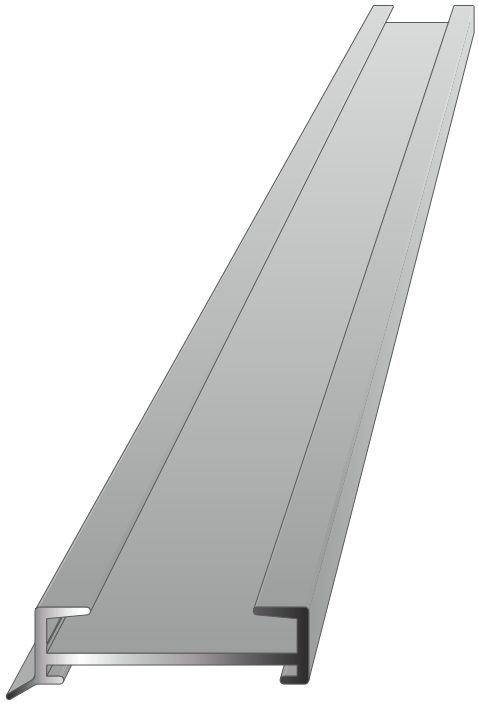
3.37 S - SP

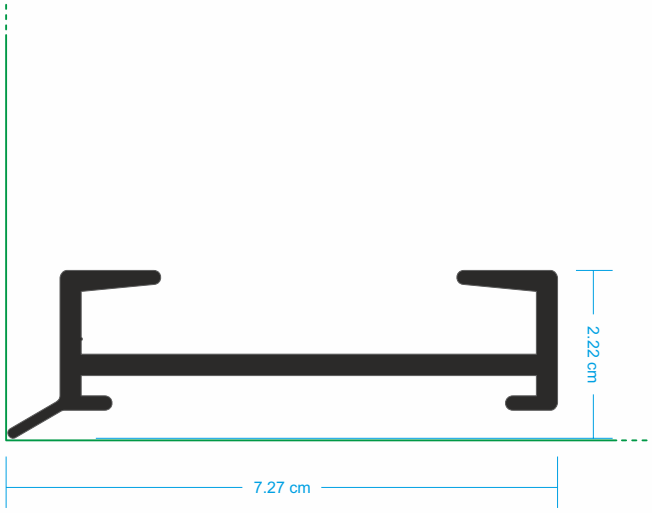
FUNCTIONALITY

Typically used in the criation of fixed points to the separating, in the case of too much gap between the stretch ceiling and the slab. It has the same features of the QVA profile, but stronger.

CHARACTERISTICS

Profile in anodized aluminium to suspension fixed by props. Laterally it is fixed by cupboard.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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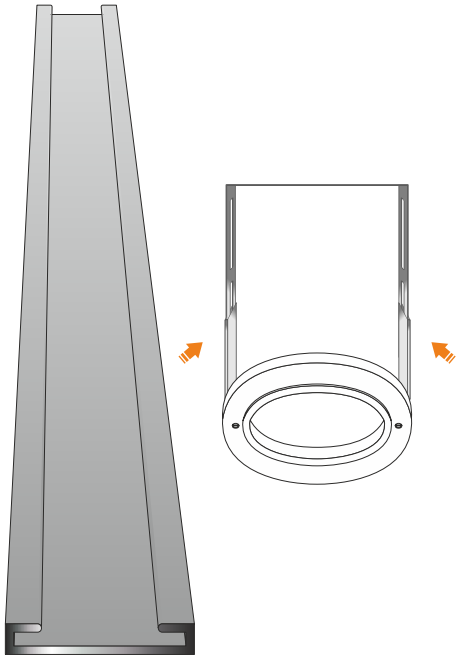
3.38 STR

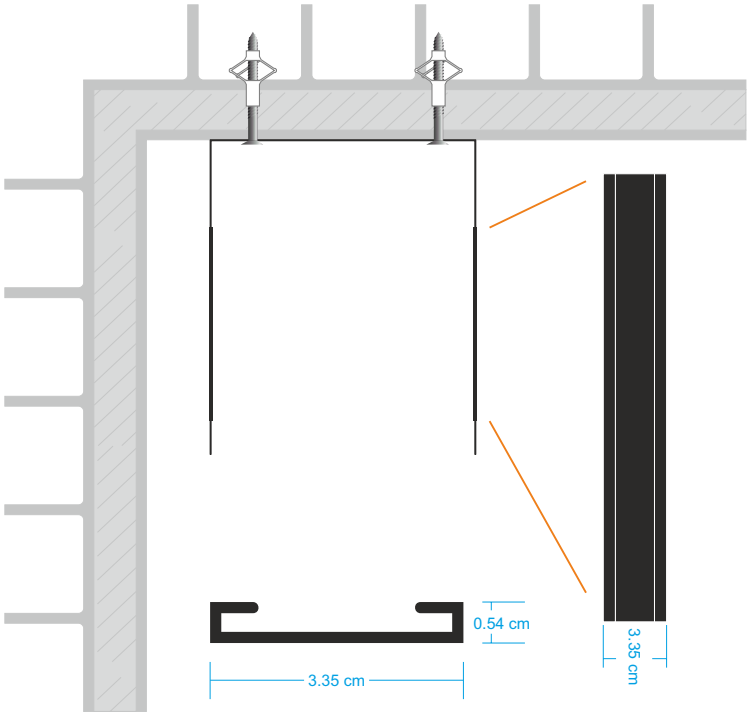
FUNCTIONALITY

Typically used in the support estructures to reinforce their resistence, when the gap between the stretch ceiling and the slab is over 40 cm.
It allows the regulation of the support structures.

CHARACTERISTICS

Profile in anodized aluminium in “U” form.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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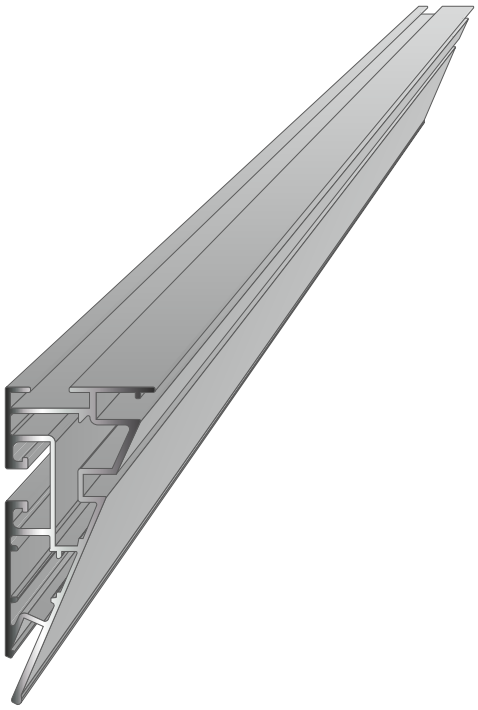
3.39 TUBULAR LUZ

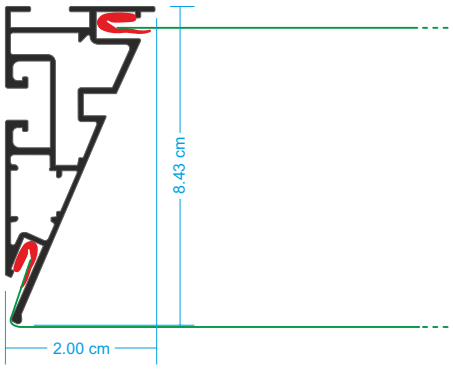
FUNCTIONALITY

Tipicamente utilizado nas aplicações onde não é desejável a sua visibilidade. Este perfil tem a particularidade de ser amovível. Tem ainda a vantagem de evitar sombras devido à forma em «cunha». Também permite a aplicação de duas telas em simultâneo.

CHARACTERISTICS

Perfil em alumínio anodizado com bastante resistência. Sistema de fixação suspensa e amovível, não havendo necessidade de o fixar à parede ou placa. Perfil com acabamento invisível.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:2

NOTES

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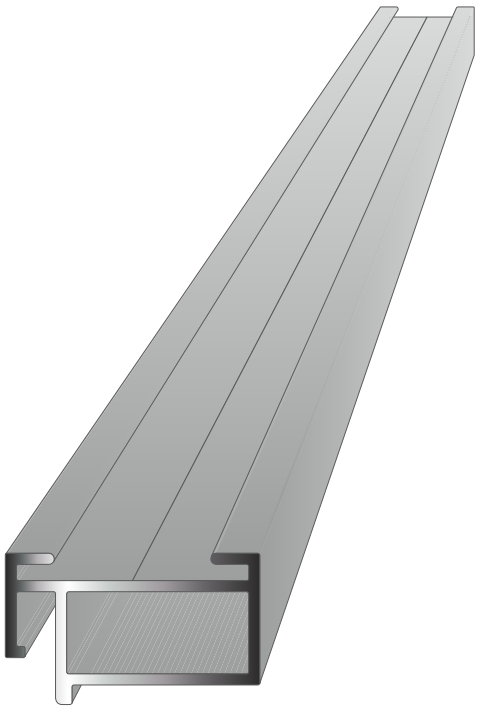
3.40 TBL

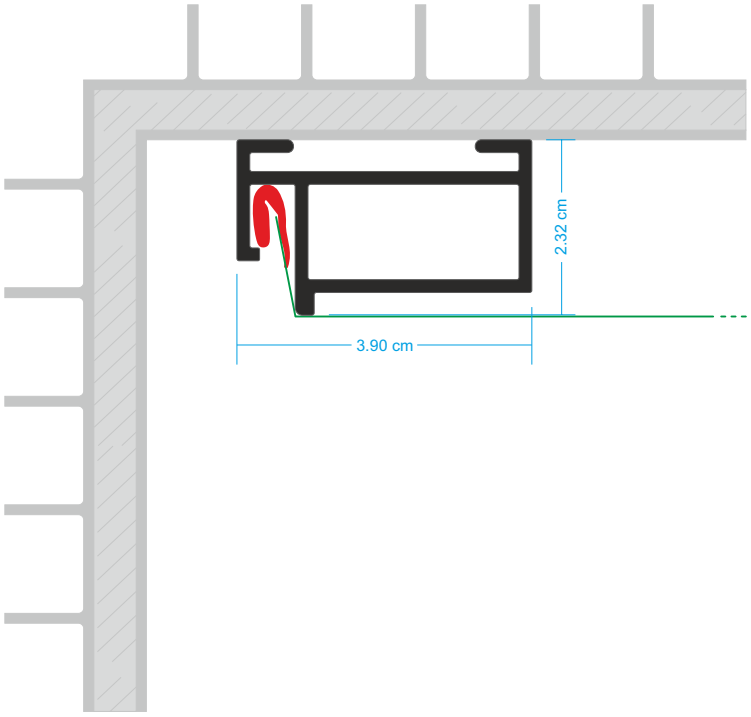
FUNCTIONALITY

Typically used in the elaboration of stronger openings 90º angles ans also very useful in the criation of new strustures, when direct fixation to the slab is not possible.

CHARACTERISTICS

Profile in anodized aluminium to suspension fixed by props.





MATERIAL	STATUS	LEGEND	SCALE
Aluminum	In use	FIXATION PROFILE PVC HARPOON PVC MEMBRANE MEASURES	1:1

NOTES

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APPLICATION TECHNIQUE

POE PROGRAMA OPERACIONAL DA ECONOMIA
UNIÃO EUROPEIA FEDER
apcer ISO 9001 IQNet
CERTIFICADO Nº 02/CEP.1804

APPLICATION TECHNIQUE

PROCEDURE

- Levantamento do espaço

It is necessary to do a survey of the area where the tension ceiling will be applied: angles (defined points), lateral and diagonal dimensions. Note some rules:

1º Area reading and dimension registering is always done clock-wise.

2º Each corner (to walls) is an angle that should be attributed a name. At any point A is designated and B, C, D... Z are named in accordance. If needed, continue with A1, B1, C1... etc

3º Between angles, the lateral dimensions are registered beginning with the angle A being AB, BC, CD ... etc. (Fig. 2)

Note: interior curved walls with a perimeter untill 60cm must have an intermediate point determined and named (letter) in sequence to that prior. With more than 60cm it is divided into spaces of 50cm plus the remaining area, equally attributing all points a name. Concerning exterior curved walls, the same procedure applies, but the distance between the start and end points of the curve must be determined in addition (Fig. 1 and 1A)

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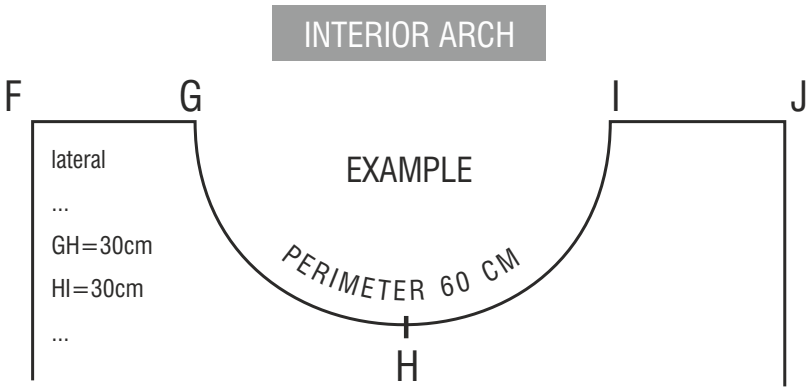
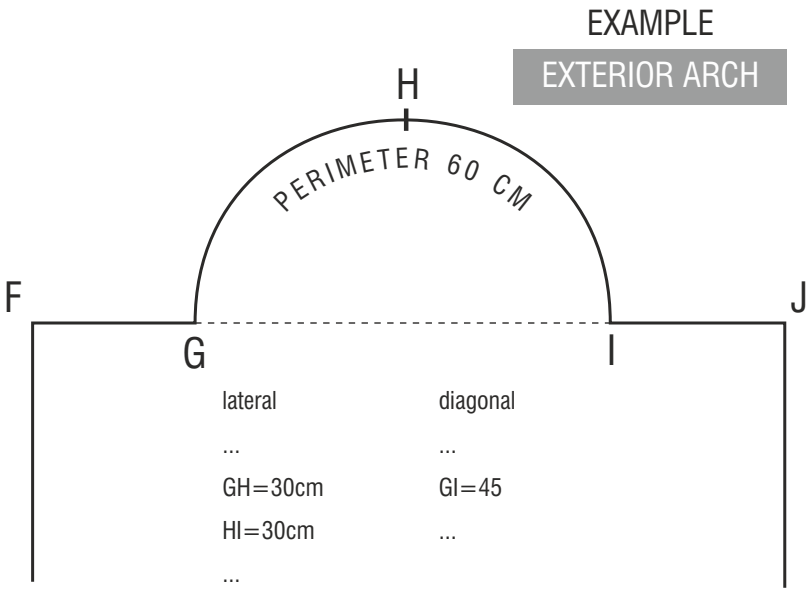
APPLICATION TECHNIQUE

PROCEDURE

Fig. 1





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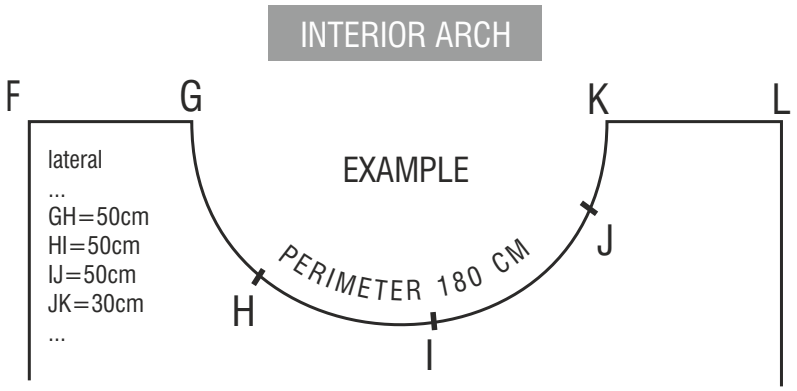
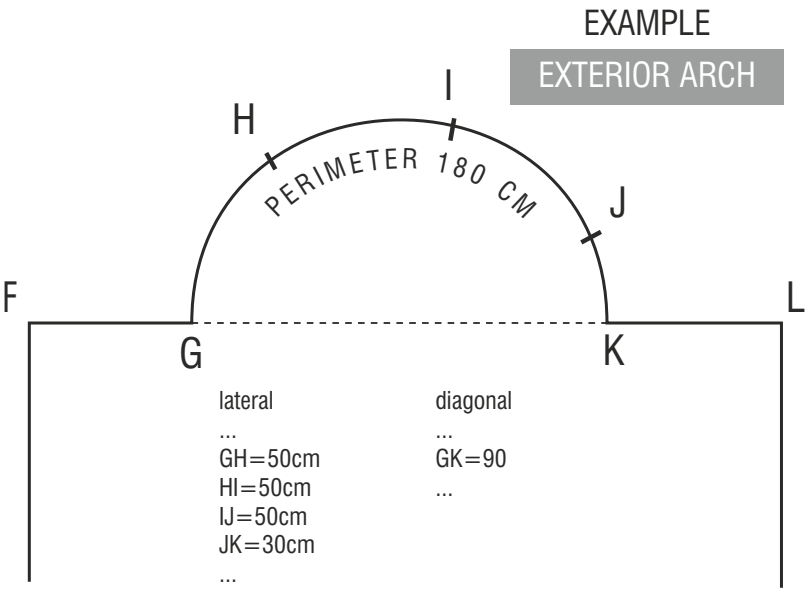
APPLICATION TECHNIQUE

PROCEDURE

Fig. 1A





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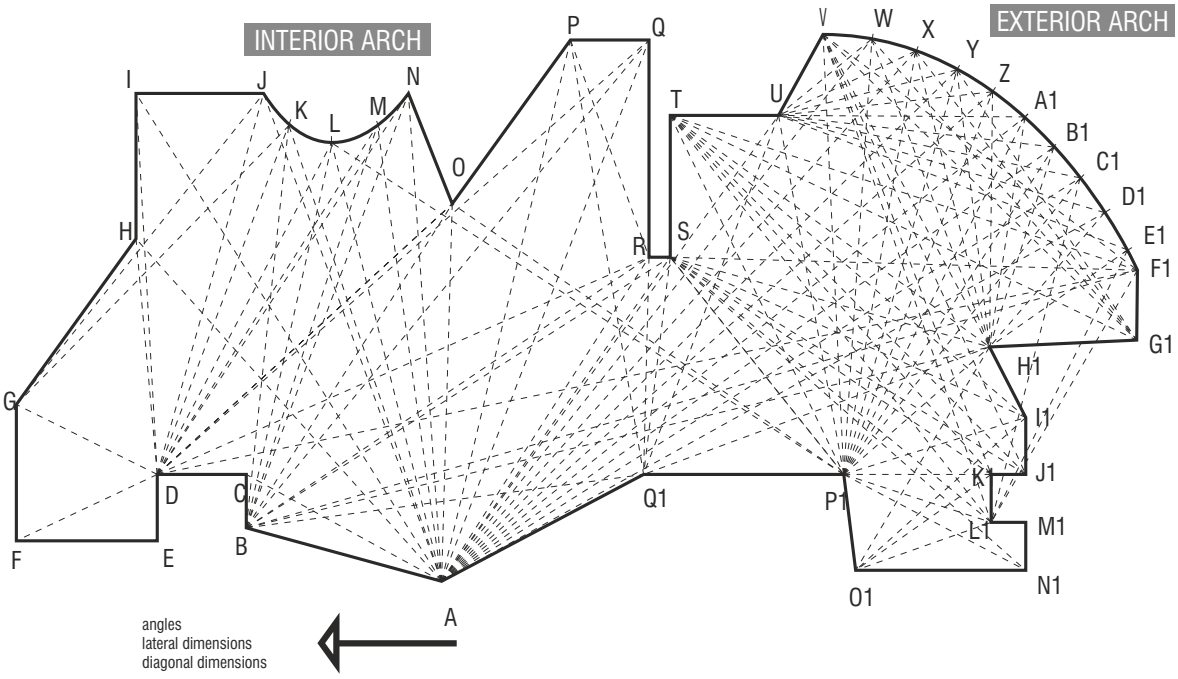
APPLICATION TECHNIQUE

PROCEDURE

4º The visible diagonals between angles are registered with A, B, C, sucessively. The final result is as seem in the example bellow:

Fig. 2



AREA SURVEY - DIMENSIONS REGISTER

LATERAL DIMENSIONS
AB=250
BC=50
CD=95
DE=60
EF=230
...
Q1A=263

DIAGONAL DIMENSIONS
AC=270
AH=580
AI=620
AJ=600
AK=573
...
AD1=800

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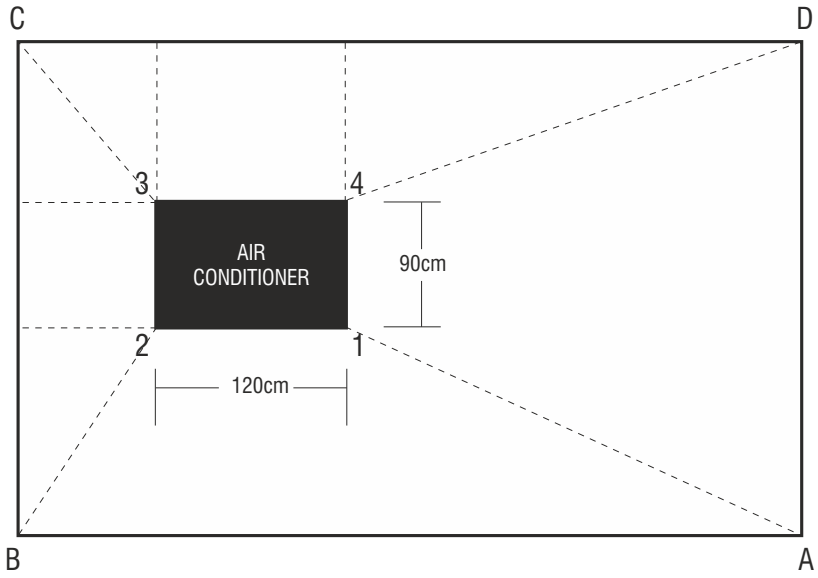
APPLICATION TECHNIQUE

PROCEDURE

5º With the existence of air conditioner boxes and/or circulation passages the position of such (lateral, diagonal, perpendicular) in relation to the walls and closest angles should be included in the survey. Therefore:



Survey of the air conditioner's position dimensions register

LATERAL WALLS DIMENSIONS	DIAGONAL DIMENSIONS TO AIR CONDITIONER	CLOSEST PERPENDICULAR DIMENSIONS
DA=300 CD=460 BC=300 AB=460	A1=310 B2=135 C3=120 D4=295	WALL CD AIR CONDITIONER 100cm WALL BC AR CONDITIONER 85cm

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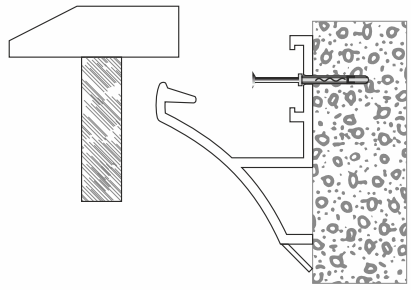
APPLICATION TECHNIQUE

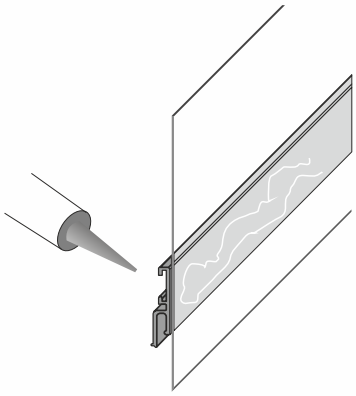
PROCEDURE

- Profile assembly

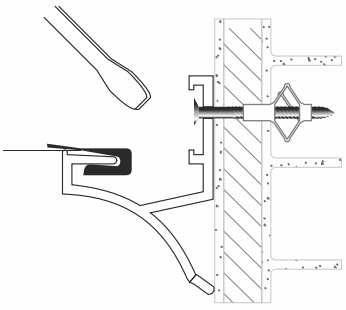
1º Demarcations are made for the wall or ceiling profile assembly. The profile's fixation depends on the materials used for constructing the wall or ceiling:
Over plastered brick screws and wads are used, only screws on wood, Tapite is used on concrete, over glass, tile, marble, etc., special glue is used.



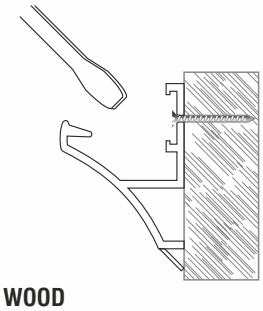
CONCRETE
ATTACHED WITH TAPITE



GLASS
ATTACHED WITH SPECIAL GLUE



PLASTER
ATTACHED WITH WADS AND SCREWS



WOOD
ATTACHED WITH SCREWS

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APPLICATION TECHNIQUE

PROCEDURE

- Assembly of support structures

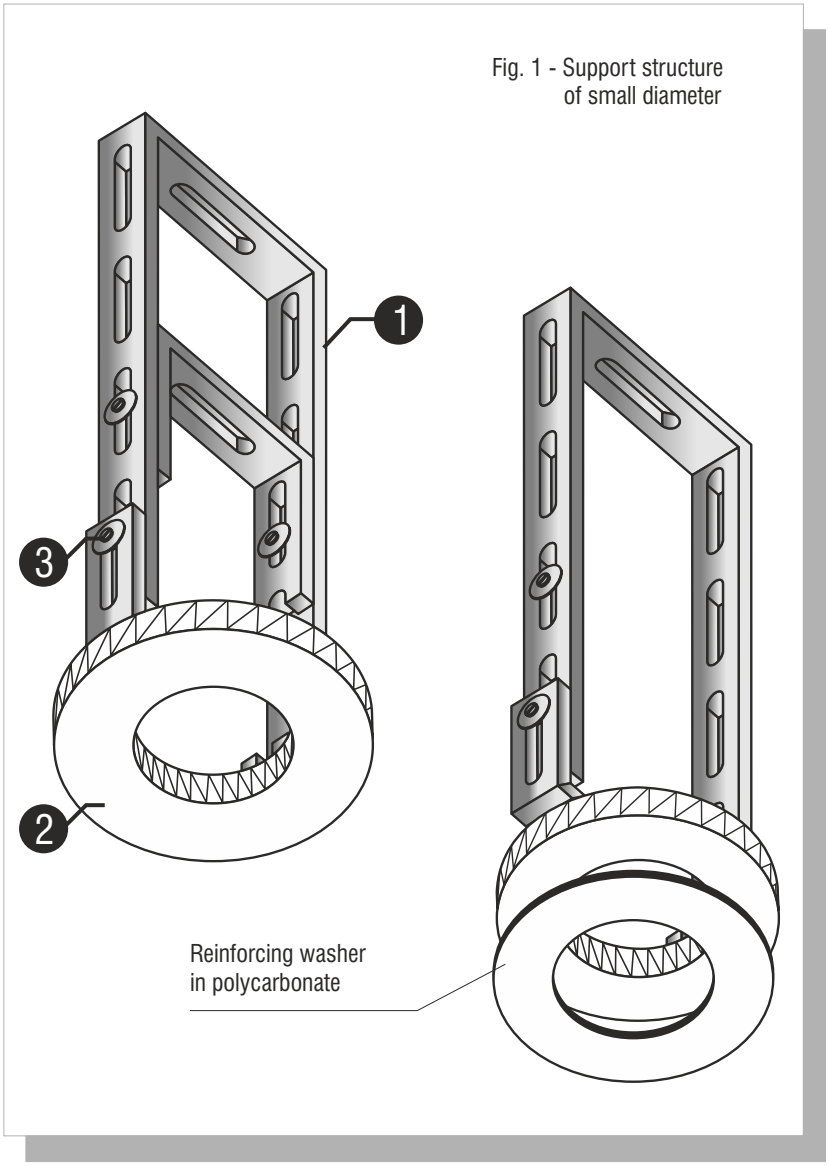

Fig. 1 - Support structure of small diameter

1. perforated aluminum bar or galvanized angle
2. PVC base expanded with an M1 classification
3. screw for level adjustment

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APPLICATION TECHNIQUE

PROCEDURE

- Assembly of support structures

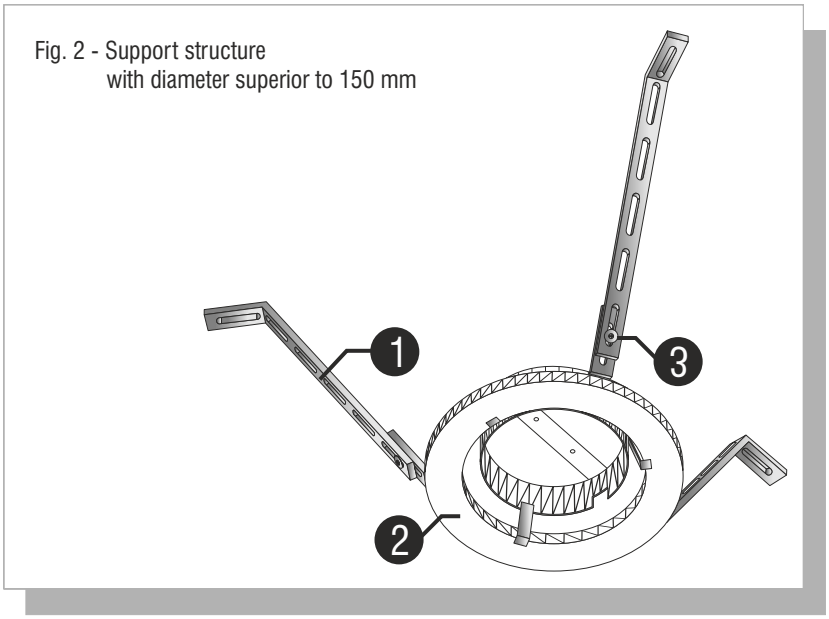

Fig. 2 - Support structure with diameter superior to 150 mm

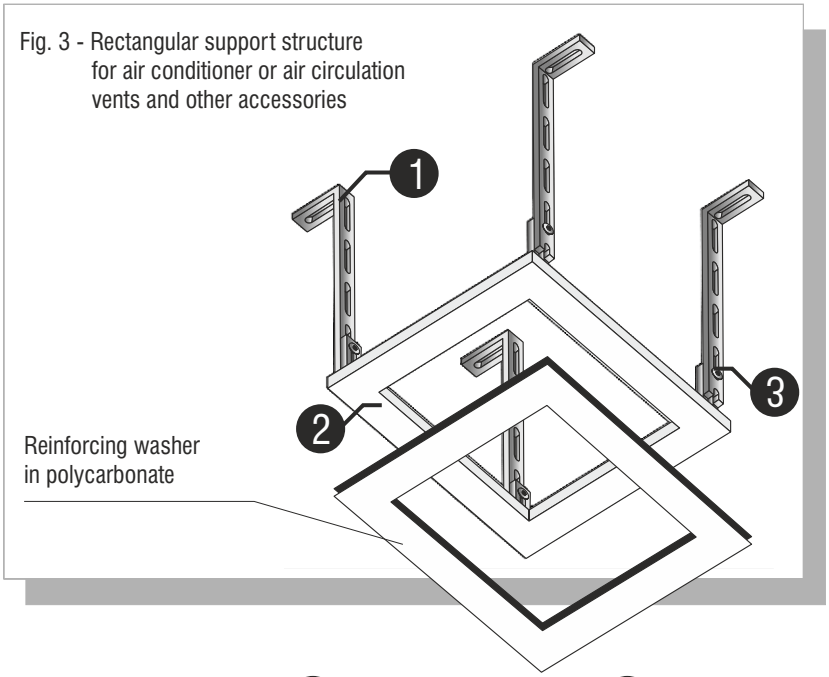

Fig. 3 - Rectangular support structure for air conditioner or air circulation vents and other accessories

1 perforated aluminum bar or galvanized angle

2 PVC base expanded with an M1 classification

3 screw for level adjustment

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APPLICATION TECHNIQUE

PROCEDURE

- Tension ceiling clipping

1º After the profiles and support structures have been applied the next procedure is clipping, (tensio ceiling assembly).

2º The tension ceiling is unpacked and laid out for pre-heating.

3º After, the angles are fixed with the auxiliary clips (Fig. 1) untill the desired elasticity is reached through heating.

4º Those angles are clipped (Fig. 2) and afterwards the middle of the lateral ones.

5º To conclude this process (clipping) the entire ceiling is clipped (Fig. 4)

The tension ceiling requires a period of stabilization, cooling (approximately 20 min.). After stabilizing, openings are made by welding the reinforcement washers to the tension ceiling so as to apply the accessories.

Fig. 1 - Auxiliary clip

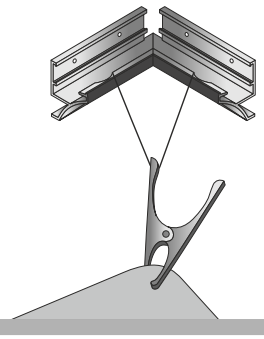


Fig. 2 - The angles are clipped

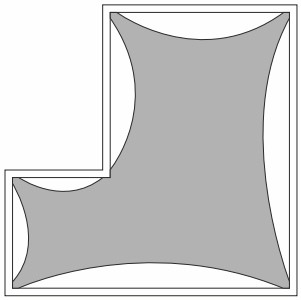


Fig. 3 - The center of the laterals are clipped

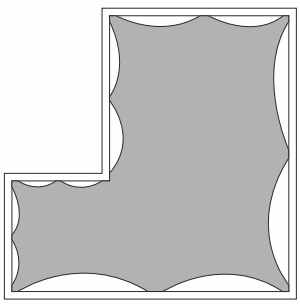
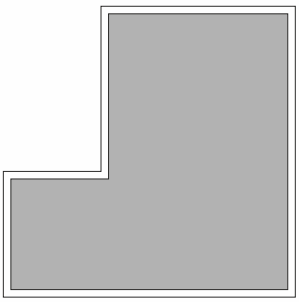


Fig. 4 -The ceiling is clipped integrally



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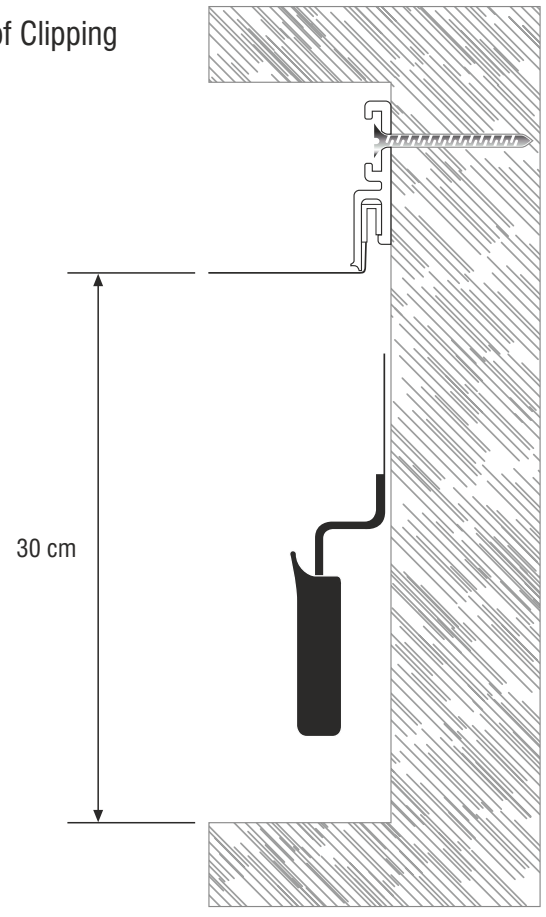
APPLICATION TECHNIQUE

PROCEDURE

- Important notes

Fig. 1 illustrates the use of a spatula in the clipping of tension ceilings. For its utilization, a helpful space of 30 cm between the ceiling's clipping profile area and any object that interferes in that space is needed.

Fig. 1 - Spatula of Clipping



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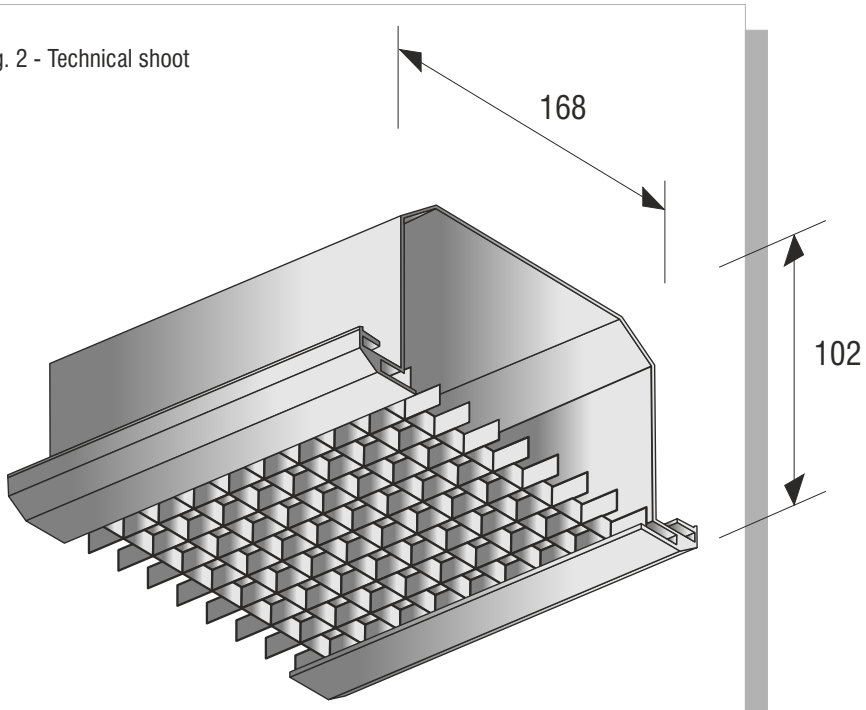
APPLICATION TECHNIQUE

PROCEDURE

- Important notes

Fig. 2 illustrates a technical shoot.
Made of aluminum, this accessory assumes diverse functions:
It allows for the creation of points for light fixtures. Since the division of the ceiling must be made in embrasures with 6m maximum so the tension ceiling does not bend, it is also possible to fix air conditioner spouts and sprinklers thereby reducing costs.
The shoot's finishing touch is of gridded metal or opalineacrylic.

Fig. 2 - Technical shoot



BIO - PRUF
GAMUT

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BIO - PRUF GAMUT

BIO-PRUF

FUTURE ALTERNATIVE

- Alternative Future

O BIO - PRUF is a brand registered and patented by the Morton Internacional Society (U.S.A.).

What is BIO - PRUF - Unlike common surface treatments whose action is time limited, BIO - PRUF reacts during the treated product's life span by permanently diffusing all of its principle active agents. BIO - Pruf is an anti-microbial and anti-fungal source integrated in the prime material of tension ceilings .

BIO - PRUF's action - Since it is integrated in the prime material itself, BIO - PRUF creates an area of inhibition thereby avoiding contamination and risk of infection, keeping away "*Actinomycetes*" fungi and "*Gram+*" and "*Gram-*" bacteria, golden "*Stafilococci*" or *"Klebsiella Pneumonia*" in particular.

BIO - PRUF's increased values:
Economy - Its permanent action allows for easy maintenance of the tension ceiling. Simply cleaning with a well-diluted disinfectant and germicide is sufficient considering BIO - PRUF's characteristics.

Auto-deodorizer - Due to the prime material's composition, BIO - PRUF TENSION CEILINGS automatically eliminate bad odors provoked by microorganismes' actions.

Duration - The BIO - PRUF treatment eliminates all of the TENSION CEILINGS degradation processes. The fact of maintaining permanent action allows for the conservation of their original characteristics.

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BIO - PRUF GAMUT

BIO-PRUF FUTURE ALTERNATIVE

- Application Domain

Hospitals
White rooms
Pharmaceutical and agronomic industries
Laboratories
Industrial and collective kitchens
All spaces that require anti-microbial and fungicide protection

REPORT OF BACTERIOLOGICAL ACTIVITY TESTS Nº 92-221
1 - QUALITATIVE MEASUREMENTS
2 - QUANTITATIVE MEASUREMENTS
3 - SAMPLE RESULTS
Objective: determine bacteriological activity on the plastic sheet surface.

1 - VISUAL EXAM - QUALITATIVE METHOD
The samples are placed in a nutritive environment with inoculated
Staphilococcus aureus - ATCC 6538
Klebsiella pneumoniae - ATCC 4352
After 24 hours of incubation at 37° C, the anti-bacterial activity is calculated by measuring the clear non-invaded area (inhibition zone is around each sample).

Bacterial invasion is defined according to the following scale:
There is no invasion in the contact zone:
N.G.C.A. (No Growth Contact Area): it is a designation that indicates the absence of bacterial colonies in the entire sample.

Invasion in the contact zone:
G.C.A. (growth contact area): bacteria colonize the sample in contact with the nutritive substance.

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BIO - PRUF GAMUT

BIO-PRUF FUTURE ALTERNATIVE

2 - TESTS IN NEW YORK STATE Nº 1006 - 1977: QUANTITATIVE MEASUREMENTS

0.2ml of diluted bacteria cultures (10 organisms) are placed in direct contact with the previously sterilized sample.

After 24 hours of incubation at 37° C and 100% relative humidity, the sample is placed in a sterile nutritive solution.

The number of surviving organisms are counted by a stard counting system.

The percentage of surviving bacteria is calculated in relation to the number of bacteria obtained in the non-treated sample.

The material is considered to be resistent if the following conditions are complied with:
- the golden "*stafilococci*" survival rate is inferior to 2%
- the "*klebsiella Pneumonia*" survival rate is inferior to 17%

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BIO - PRUF GAMUT

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3 - SAMPLE TRIAL RESULTS

Stan derm Trev #1

Nº A: - with BIO-PRUF treatment
Nº B: - with BIO-PRUF treatment

Drap Hopital #2

Nº A - with BIO-PRUF treatment
Nº B - without BIO-PRUF treatment

Qualitative results (bacteria resistance):

Samples	AREAS OF INHIBITION/INVASION IN THE CONTACT ZONE			
	Golden "Estafilococo"		"Klebsiella Pneumonia"	
	Lado 1	Lado 2	Lado 1	Lado 2
#1 - A	4/NGCA	3/NGCA	4/NGCA	3/NGCA
#1 - B	4/NGCA	2/NGCA	4/NGCA	2/NGCA
#2 - A	6/NGCA	4/NGCA	5/NGCA	3/NGCA

NY Quantitative results - Nº 1006 - 1977:

Samples	0% SURVIVING ORGANISMS	
	Golden "Estafilococo"	"Klebsiella Pneumonia"
#1 - A	‹ 1%	‹ 1%
#1 - B	‹ 1%	‹ 1%
#2 - A	‹ 1%	16.4%
#2 - B	10%	31.2%

Conclusions:

#1 - A : conforms
#2 - B : conforms
#3 - A : conforms
#4 - B : does not conform

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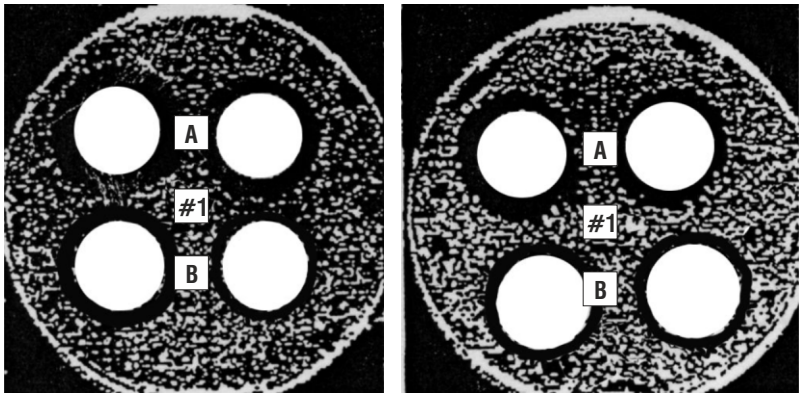
BIO - PRUF GAMUT

BIO-PRUF FUTURE ALTERNATIVE

SAMPLE #1

Nº A and B with BIO-PRUF treatment
There is no invasion of the inhibition zone in whatever side that is in contact with the bacteria.

Teste nº 92 - 221 Golden "*Estafilococo*"		Teste nº 92 - 221 *"Klebsiella Pneumonia"*	
Front view	Back view	Front view	Back view



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BIO - PRUF GAMUT

BIO-PRUF

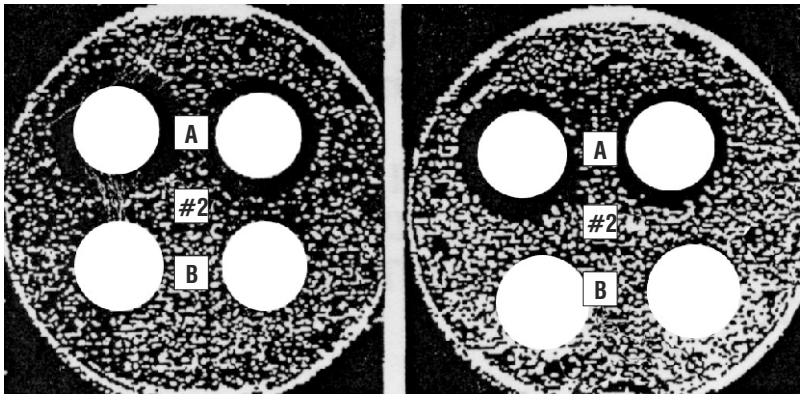
FUTURE ALTERNATIVE

SAMPLE #2

Nº A with BIO-PRUF treatment
Nº B without BIO-PRUF treatment

Both samples A present static bacterial activity (strong inhibition zone).
Sample B is submitted to a colonization of two bacteria (strong inhibition zone).

Teste nº 92 - 221 Golden "*Estafilococo*"		Teste nº 92 - 221 *"Klebsiella Pneumonia"*	
Front view	Back view	Front view	Back view



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BIO - PRUF GAMUT

BIO-PRUF

FUTURE ALTERNATIVE

BIO - PRUF is a strong anti-microbial and anti-fungal agent integrated in the prime material of tension ceilings.
For this reason, BIO - PRUF creates an inhibition zone thereby avoiding contamination and risk of infection, keeping away "*actinomycetes*" fungi and "*gram+*" and "*gram-*" bacteria, golden "*stafilococci*" and "*klebsiella Pneumonia*" in particular.

BIO 100.142 Quarteira

ADVANTAGES

- EASY MAINTENANCE
- AUTO-DEODORIZING
- MORE DURABLE

APPLICATION DOMAINS

- HOSPITALS
- WHITE ROOMS
- PHARMACEUTICAL AND AGRONOMIC INDUSTRIES
- LABORATORIES
- INDUSTRIAL AND COLLECTIVE KITCHENS
- ALL SPACES THAT REQUIRE ANTI-MICROBIAL AND FUNGICIDE PROTECTION

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