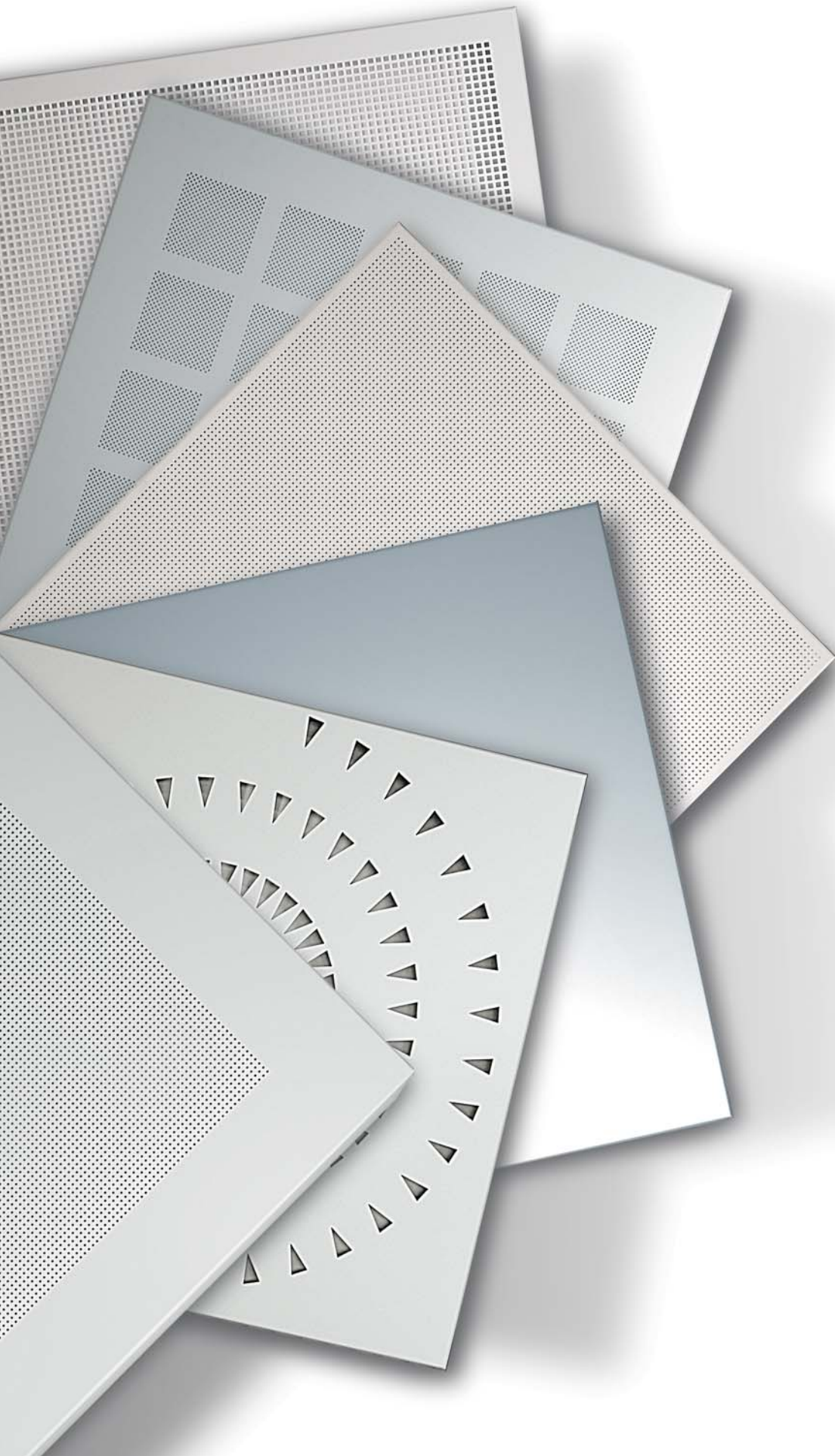


Panouri cu  
**Structura ascunsa**



*Panels with concealed structure*

**PLAFON METALIC SUSPENDAT CASETAT**  
FALSE CEILINGS WITH PANELS



# Panouri **PROMETAL**<sup>®</sup>

## *PSN System*

### **STRUCTURA ASCUNSA**      **CONCEALED STRUCTURE**

PROMETAL<sup>®</sup> PSN este un sistem de plafon metalic fals casetat format din panouri de 600x600 montate prin clipsare de structura de sustinere. Panourile perforate combinate cu un filtru fonic confera o absorbtie marita a sunetului asigurand in acest fel o acustica ambientala optima.

Este un plafon indicat pentru orice tip de locatie.

Fiind simplu de instalat plafonul metalic casetat permite accesul usor la instalatiile tehnice suspendate care se afla deasupra tavanului fals permitand astfel ca orice interventie la acestea sa se efectueze intr-un timp optim.

*PROMETAL<sup>®</sup> PSN is a system of false ceiling consisting of panels, generally in modules 600x600 mm provided in the longitudinal edges with simple notches to be simply clipped into a concealed spring tee.*

*Perforated panels combined with insulating materials are extremely sound-absorbent, which guarantees an excellent acoustic effect.*

*They are particularly suitable for all types of installation and when an economic false ceiling is required.*

*False ceiling with panels are easy to install, and allow access to any overhead services, which means rapid intervention and maintenance.*















**AVANTAJE**

Au un aspect unitar.

Indicat pentru zone unde este necesara utilizarea unui tavan care nu are un finisaj poros pentru a se putea garanta un grad ridicat de igiena.

Plafonele suspendate ascund instalatiile electrice, instalatiile de ventilatie sau orice traseu tehnic ce se afla suspendat deasupra plafonului si permit accesul in orice punct.

**REZISTENTA LA FOC**

Clasa 0

D.M.din 26.06.84 (S.O.G.U.n° 234 din 25.08.84)

D.M.din 14.01.85 (G.U.n° 16 din 19.01.85)

Ata pentru otel cat si pentru aluminiu.

**IZOLARE ACUSTICA (FONICA)**

Pentru a asigura o buna izolare acustica trebuie sa se opteze pentru panouri perforate (vezi tabelul de perforari) care sunt captusite pe interior cu un filtru negru lipit la cald.

**IZOLARE TERMICA**

Izolarea termica se realizeaza cu ajutorul unei saltele din vata minerala de sticla, sau a altui material cu izolare termica similara, asezata deasupra plafonului casetat.

**SERVICII INTEGRATE**

Flexibilitatea sistemului permite montarea foarte usoara a urmatoarelor accesorii:

Corpuri de iluminat printre care se pot enumera canale luminoase, plafoniere, spoturi incastrate, etc;

Sisteme de ventilatie: grile de absorbtie si refulare a aerului, anemostate, ventilatoare etc;

Sisteme de siguranta, cum ar fi, sprinklere, senzori de fum, etc.

**ADVANTAGES**

*Monolithic appearance.*

*Ideal solution in areas where hygienic application is highly demanded.*

*Easy access at any point for maintenance of services installed in the ceiling cavity.*

**FIRE CLASSIFICATION**

*Class "0"*

*D.M. dt 26.06.84 (S.O.G.U. n° 234 dt 25.08.84)*

*D.M. dt 14.01.85 (G.U. n° 16 dt 19.01.85)*

*for steel and for aluminium.*

**SOUNDPROOFING**

*When more efficient sound-absorption is required, we propose the application of non woven fabric sealed by hot gluing on the back of perforated panels (see list of perforation patterns)*

**THERMAL INSULATING**

*Thermal insulation can be achieved with the application of absorbing pads or other insulating materials which can be selected on the market for the specific applications.*

**SERVICES INTEGRATION**

*The system easily accommodates essential facilities such as:*

*Modular light fittings, spotlights;*

*Air diffusers of different shape (linear, square or round);*

*Security devices, water sprinklers and smoke detectors.*

## SISTEMUL DE MONTARE

Sistemul PROMETAL® PSN poate sa fie montat cu ajutorul a doua tipuri de structura in functie de cerinte.

Clipsat pe o structura portanta formata din profile triunghiulare. Aceasta tipologie este prevazuta pentru urmatoarele tipuri de plafon fals:

**PSN**  
**PSN OPENING**  
**PSN CS**

Clipsat pe o structura portanta formata dintr-un tub metalic si cleme de sustinere. Aceasta tipologie este prevazuta pentru urmatoarele tipuri de plafon fals:

**PSN TC**  
**PSN TC A TENUTA**

## MANIPULARE SI DEPOZITARE

Panourile trebuiesc depozitate in spatii uscate si acoperite.

Panourile se pastreaza in ambalajul propriu pana in momentul instalarii lor.

Cutiile trebuiesc asezate si pozitionate conform indicatiilor existente pe ele.

Pentru a evita deteriorarea produselor este necesara atentie la manipulare si la desfacerea ambalajelor.

## INSTRUCTIUNI DE INTRETINERE

Pentru o intretinere corecta trebuiesc respectate urmatoarele instructiuni:

Panourile pot fi sterse de praf cu o carpa moale si curata.

Eventualele pete de grasime vor fi curatate cu ajutorul unui detergent fin, special pentru acest tip de produs.

A nu se folosi detergenti duri sau carpe dintr-un material abraziv. Curatirea se face prin simpla stergere si in nici un caz prin frecare.

## INSTALLATION SYSTEM

*PROMETAL® PSN system can be installed on specific supportine structures suitable for the different applications:*

*Clipped onto triangular profiles (spring "T") for following models:*

**PSN**  
**PSN OPENING**  
**PSN CS**

*Clipped onto a suspension system consisting of tube and springs for following models:*

**PSN TC**  
**PSN TC AIRTIGHT**

## STORAGE AND HANDLING

*Ceiling components must be stored in a dry interior location.*

*They must remain in original packing until installation.*

*Cartons must be stored and oriented as per instructions.*

*Special care must be used during handling and opening of boxes to avoid damages.*

## CLEANING








*For a correct cleaning:*

*Dust should be removed from the surface by wiping with a clean soft cloth;*

*Grease and fingerprints should be removed with a mild household cleaner suitable for this use;*

*Don't use abrasive cleaners or scrub the surface.*

## DIMENSIUNI - SIZES

TIPUL Type	DIMENSIUNI Sizes (mm)	GROSIME MATERIAL Thickness (mm)		BORDI Edge details	
		ALUMINIU Aluminium	OTEL Steel	TESIT Bevel	UNGHI DREPT Square
<b>PSN</b>	300X300	0.5 0.6	0.5		
	300X600	0.5 0.6	0.5		
	300X1200	0.5 0.6	0.5		
	600X600	0.5 0.6	0.5		
	600X1200	0.5 0.6	0.5		
<b>PSN/CS</b>	600x600	0.5 0.6	0.5		
<b>PSN OPENING</b>	600x600	0.5 0.6	0.5		
<b>PSN/TC</b>	600x600	0.5 0.6	0.5		
<b>PSN/TC a tenuta</b>	600x600	0.5 0.6	0.5		

**DIMENSIUNI SI GROSIMI SPECIALE SUNT DISPONIBILE LA CERERE.  
SPECIAL DIMENSIONS AND THICKNESS ON REQUEST**

## CULORI

## PREVOPSITE

Alb (similar RAL 9003)  
Argintiu (similar RAL 9006)

## POSTVOPSIT

Garantarea unui foarte bun rezultat estetic al tuturor produselor se datoreaza faptului ca fabrica dispune de un sistem modern de vopsire pe baza de pulberi in camp electrostatic,. Gama foarte mare de culori utilizata garanteaza satisfacerea cerintelor clientului. Produsele vopsite au fost testate si pot sa reziste mai mult de 1200 de ore in ceata salina.

## COLOURS

## PRE-PAINTED











White (similar RAL 9003)  
Silver (similar RAL 9006)

## POST-PAINTED

We have a modern painting plant that uses liquid and polyester powder coatings (minimum thickness 60 micron), which guarantees an excellent aesthetic result for all products.

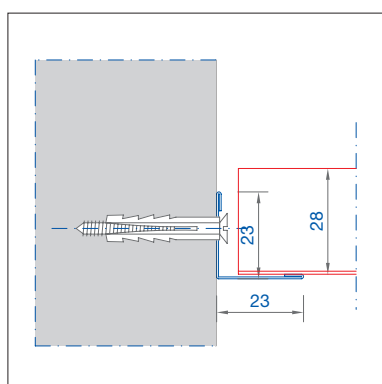
The wide range of colours allows us to meet any possible requirements. Painted products are tested to a resistance of 1200 hours of salt spray.

## PERFORATII - PERFORATION PATTERNS

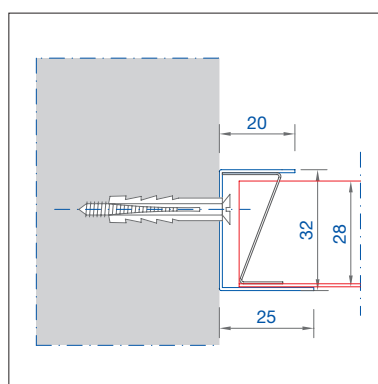
TIPUL Type		Ø perforatiei mm Ø hole mm	SUPRAFATA FORATA Open area
D1522		mm 1,5	22% ca
R1511		mm 1,5	11% ca
D222		mm 2	22% ca
R211		mm 2	11% ca
D316		mm 3	16% ca
R308		mm 3	8% ca
R2516		mm 2,5	16% ca
R316		mm 3	16% ca
Q540		mm 5	40% ca
Q1045		mm 10	45% ca

**PERFORARI SPECIALE SUNT DISPONIBILE LA CERERE  
SPECIAL PERFORATIONS ON REQUEST**

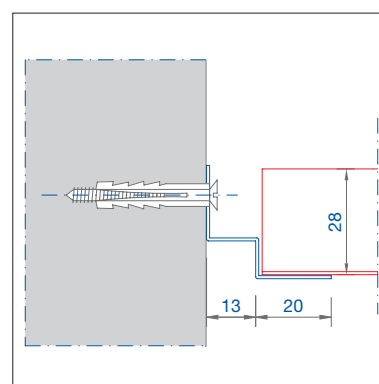
## PROFILE PERIMETRALE - EDGE PROFILES



PROFIL "L"  
"L" SHAPED PROFILE



PROFIL "C"  
"C" SHAPED PROFILE



PROFIL "DUBLU L"  
"DOUBLE L" SHAPED PROFILE

# PSN

Tavanul suspendat PSN se utilizeaza in cazurile in care se doreste realizarea unui tavan economic dar totusi de un nivel calitativ ridicat.

Panourile prevazute cu un profil special sunt montate prin clipsare, pe o structura portanta primara formata dintr-un profil triunghiular.

Designul particular al profilului permite o pozitionare foarte usoara a panoului in lacasul lui dar, cu ajutorul unei unelte speciale, disponibile la cerere, tot la fel de usor se poate extrage panoul afara.

Tavanul este furnizat standard cu o structura simpla, formata doar din profilul portant si tiranti.

In cazul in care este necesara o rigidizare si o compactare mai mare a plafonului casetat se poate furniza o structura dubla care contine in plus fata de cea standard profile C speciale, racorduri de suspensie si lamele de fixare.

*PROMETAL® PSN ceiling has been designed to offer a system using high quality material yet is economical to install.*

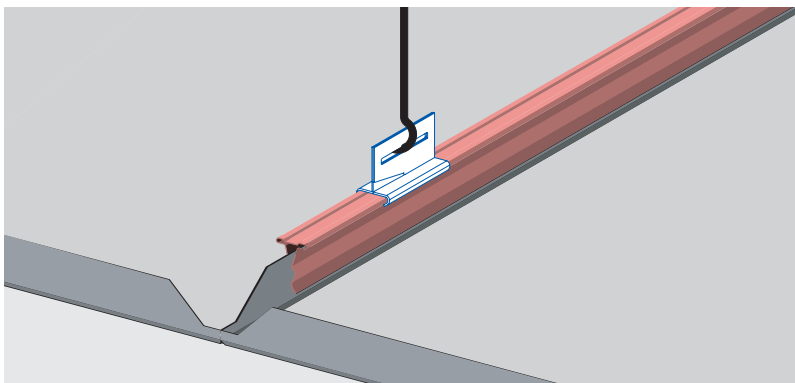
*Panels are produced with side stamped, which guarantees correct positioning of the ceiling panel when clipped to the spring tee.*

*The particular design of the spring tee allows rapid installation of the ceiling yet allows for the easy removal of any individual ceiling tile. A special tool is available to make disassembly even easier.*

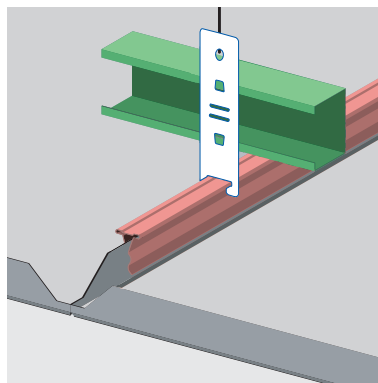
*The false ceiling is supplied with primary structure, a spring tee which forms a parallel linear grid system into which tiles are clipped.*

*Should a double structure be required, PROMETAL® can produce two different variations of their tried trusted "C" section with either a clip plate a twist spring fitting method.*

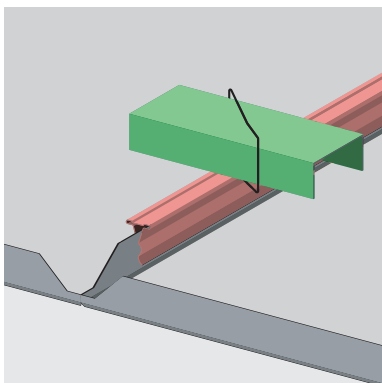
**STRUCTURA SIMPLA**  
**SIMPLE STRUCTURE**



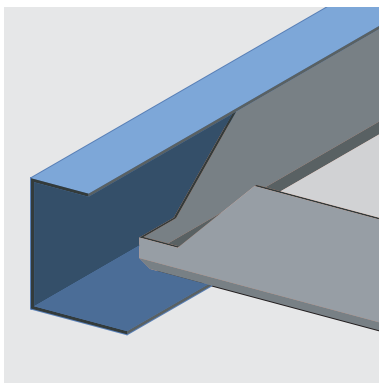
**STRUCTURA DUBLA**  
**DOUBLE STRUCTURE**



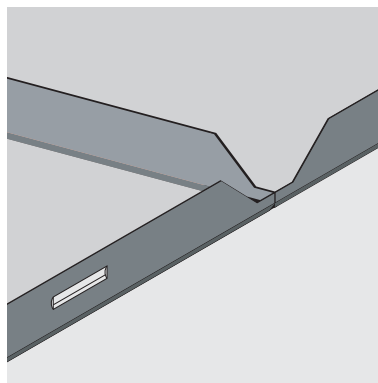
**STRUCTURA DUBLA**  
**DOUBLE STRUCTURE**



**DETALIU PERIMETRAL**  
**PERIMETER DETAIL**



**APROPIERE**  
**EDGE DETAIL**



## PSN OPENING

Tavanul metalic casetat PSN OPENING mentine toate caracteristicile sistemului PSN standard raspunzand cererii unui produs economic si de calitate chiar si in situatii de manipulare excesiva.

Designul particular al marginilor permite bascularea lui in jos, el ramanand totusi prins de profilul in forma de trunghi fara a mai fi neccsara demontarea completa a panoului pentru a se executa o interventie la instalatiile tehnice suspendate deasupra tavanului, astfel reducanduse timpul de interventie asupra acestor instalatii.

Tavanul este furnizat standard cu o structura simpla, formata doar din profilul portant si tiranti.

In cazul in care este necesara o rigidizare si o compactare mai mare a plafonului casetat se poate furniza o structura dubla care contine in plus fata de cea standard profile C speciale, racorduri de suspensie si lamele de fixare.

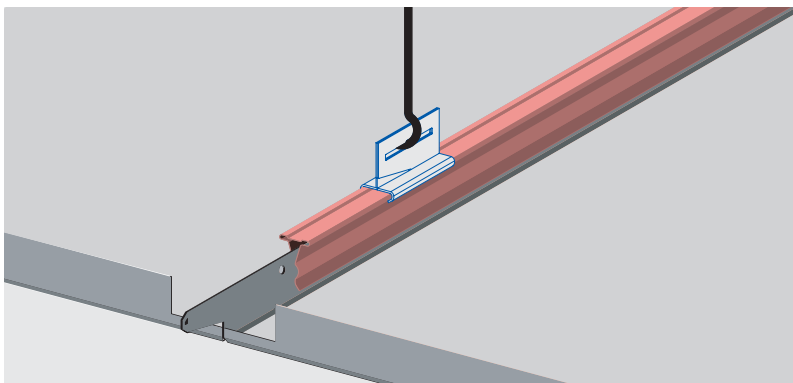
*PROMETAL® PSN OPENING offers all the characteristics of standard PSN system, maintaining its high quality standard also in situations of frequent maintenance.*

*A special design with a jut-out hinge in two sides allows the panels to pivot and slide within the spring tee profile; panels can swing-down during access to cavity reducing time for maintenance and temporary handling and storage.*

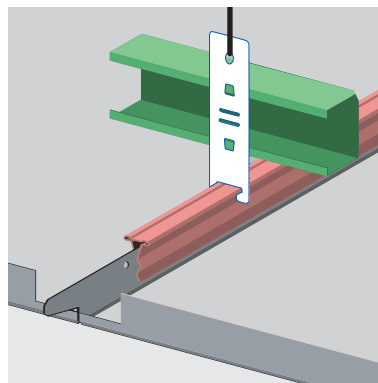
*The false ceiling is supplied with primary structure, a spring tee which forms a parallel linear grid system into which tiles are clipped.*

*Should a double structure be required, PROMETAL® can produce two different variations of their tried trusted "C" section with either a clip plate a twist spring fitting method.*

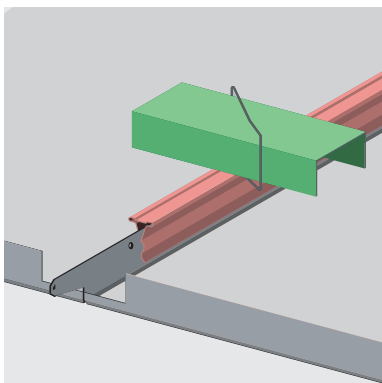
**STRUCTURA SIMPLA**  
**SIMPLE STRUCTURE**



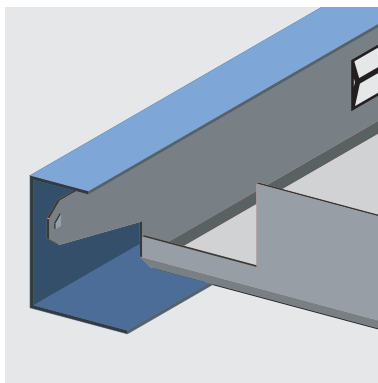
**STRUCTURA DUBLA**  
**DOUBLE STRUCTURE**



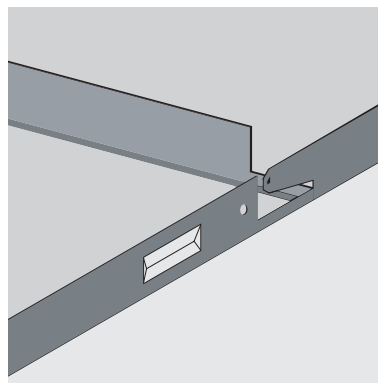
**DOPPIA STRUTTURA**  
**DOUBLE STRUCTURE**



**DETALIU PERIMETRAL**  
**PERIMETER DETAIL**



**APROPIERE**  
**EDGE DETAIL**



## PSN TC

Tavanul metalic casetat PSN TC permite o mai mare adaptare a sistemului in cazul montarii in spatii externe sau in cazul montarii unor panouri de dimensiuni sau grosimi mari.

Panourile au marginile profilate in asa fel incat sa poata fi fixate in clipsuri speciale care la randul lor sunt sustinute de un tub rotund din metal cu diametru de 22mm.

Panourile pot fi demontate individual ceea ce permite un acces foarte usor la spatiul tehnic de deasupra tavanului casetat.

Tavanul casetat este furnizat standard cu o structura simpla formata din tuburi de metal cu diametru de 22mm si cleme de sustinere.

In cazul in care este necesara o rigidizare si o compactare mai mare a tavanului casetat se poate furniza si o structura dubla care contine fata de cea standard profile C speciale, racorduri de suspensie si lamele de fixare.

*PROMETAL® PSN TC system offers high flexible external ceiling system available from a wide range of materials and in a wide range of modulations.*

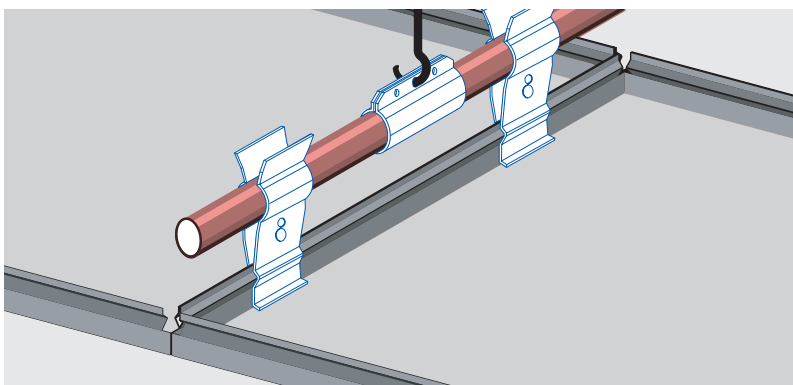
*Tiles are produced stamped on all four sides, which guarantees correct positioning of the panel when clipped to the spring clips.*

*Panels are individually removable for easy access to ceiling cavity.*

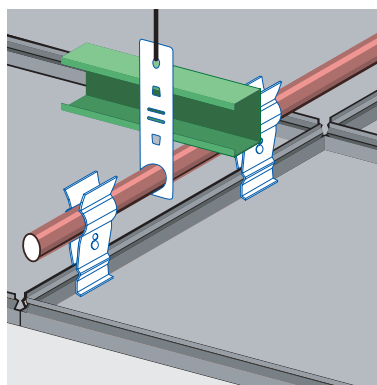
*In the case of PROMETAL® PSN TC system, the spring clip is fixed back to a primary structure consisting of a 22 mm diameter tube.*

*Should a double structure be required, PROMETAL® can produce two different variations of their tried trusted "C" section with either a clip plate a twist spring fitting method.*

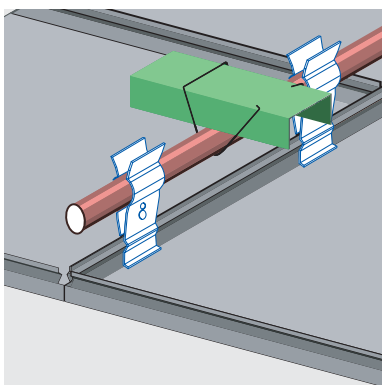
**STRUCTURA SIMPLA**  
**SIMPLE STRUCTURE**



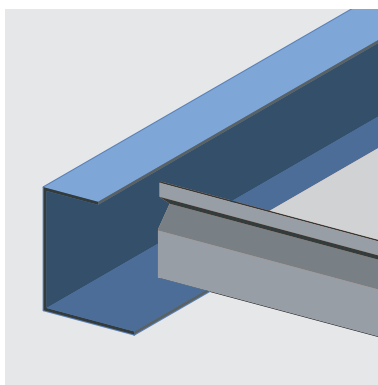
**STRUCTURA DUBLA**  
**DOUBLE STRUCTURE**



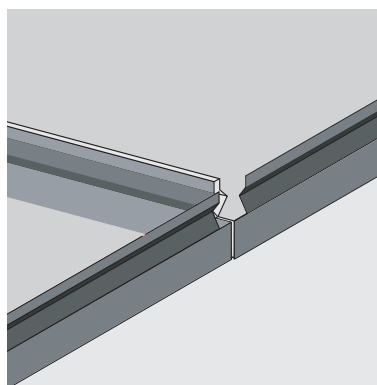
**STRUCTURA DUBLA**  
**DOUBLE STRUCTURE**



**DETALIU PERIMETRAL**  
**PERIMETER DETAIL**



**APROPIERE**  
**EDGE DETAIL**





# PSN TC

## TC ETANS

Tavanul casetat PSN TC ETANS mentine caracteristicile tavanului PSN TC dar asigura si un optim grad de izolare impotriva prafului.

Aceasta caracteristica il face sa fie ideal pentru utilizarea lui in spatii unde este necesar un control riguros asupra igienei ambientale.

Izolarea impotriva prafului este obtinuta prin inserarea unor garnituri intre panouri si intre panouri si perimetral. Pentru a mentine caracteristica de izolare impotriva prafului este obligatorie a nu se utiliza panouri perforate. Tavanul casetat este furnizat standard cu o structura simpla formata din tuburi de metal cu diametru de 22mm si cleme de sustinere.

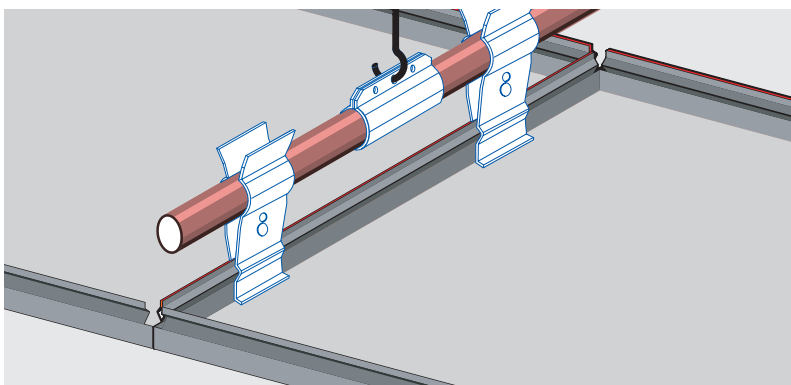
In cazul in care este necesara o rigidizare si o compactare mai mare a tavanului casetat se poate furniza si o structura dubla care contine fata de cea standard profile C speciale, racorduri de suspensie si lamele de fixare.

## AIRTIGHT

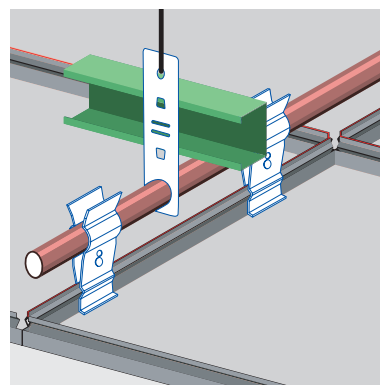
PROMETAL® PSN TC AIRTIGHT system offers all the characteristics and advantages of the standard PSN TC system, but in this case it comes complete with a self adhesive gasket which is fixed to the edges of the panels and to the accessories (edge profiles) etc during installation.

This seals the panel to panel joint as well as the panel to accessory joint (edge profiles). This give an air tight joint which makes the ceiling ideal for areas such as clean rooms or where hygiene is paramount, as in hospital theatres, food processing hall etc. The false ceiling is supplied with primary structure, a tube diam. 22 mm, which forms a parallel linear grid system and spring-clips clasped to the profile, into which tiles are clipped. Should a double structure be required, PROMETAL® can produce two different variations of their tried trusted "C" section with either a clip plate or a twist spring fitting method.

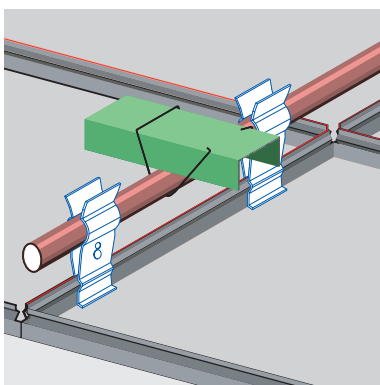
STRUCTURA SIMPLA  
SIMPLE STRUCTURE



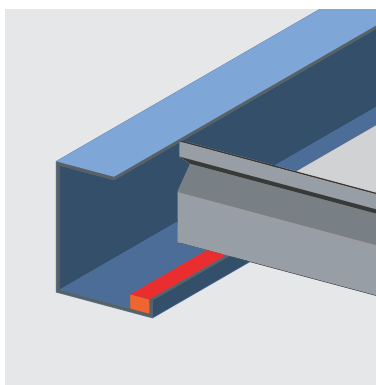
STRUCTURA DUBLA  
DOUBLE STRUCTURE



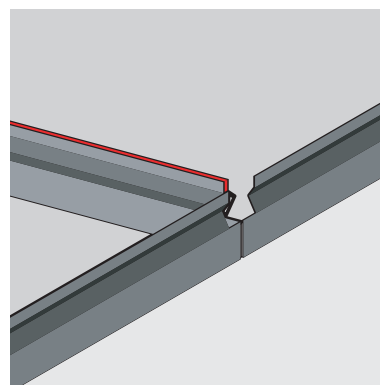
STRUCTURA DUBLA  
DOUBLE STRUCTURE



DETALIU PERIMETRAL  
PERIMETER DETAIL

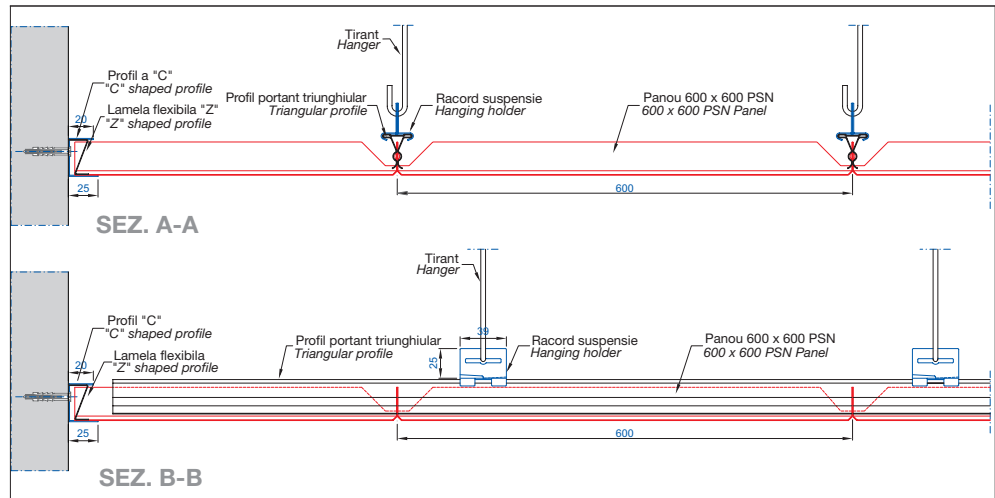
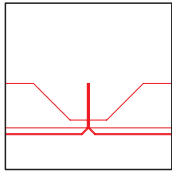
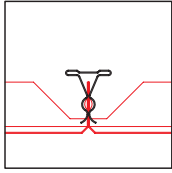


APROPIERE  
EDGE DETAIL

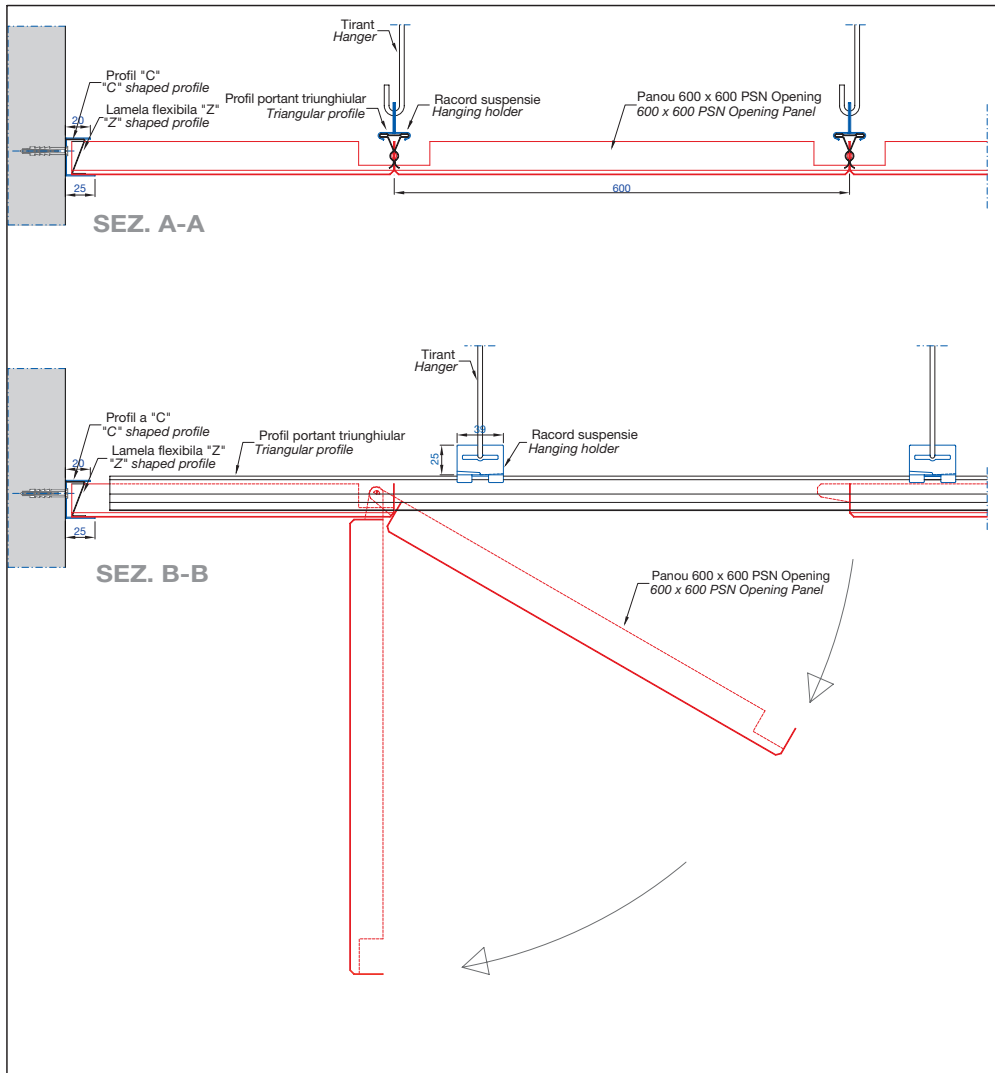
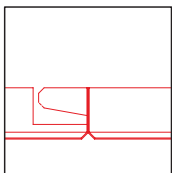
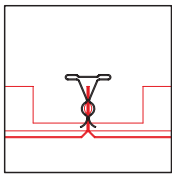


## DETALII TEHNICE - TECHNICAL DETAILS

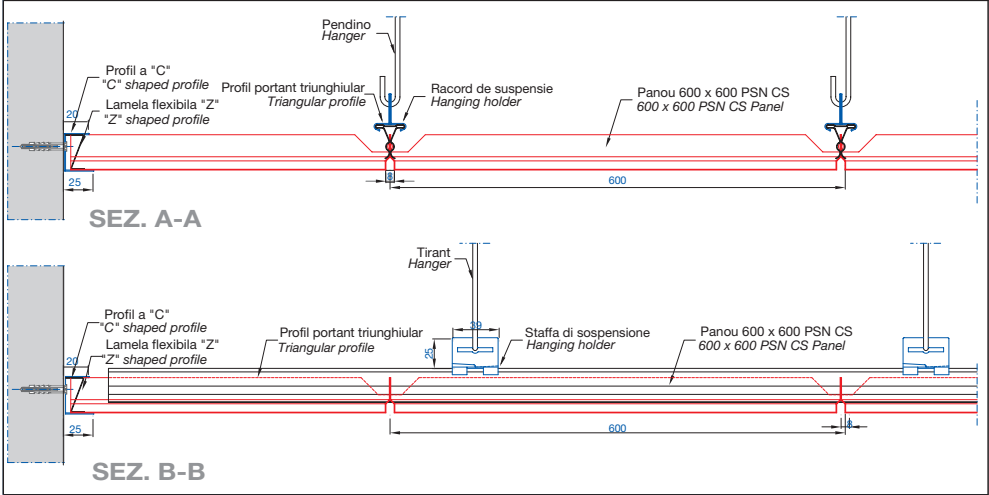
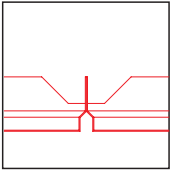
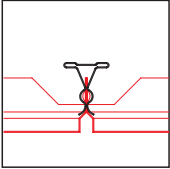
### PSN



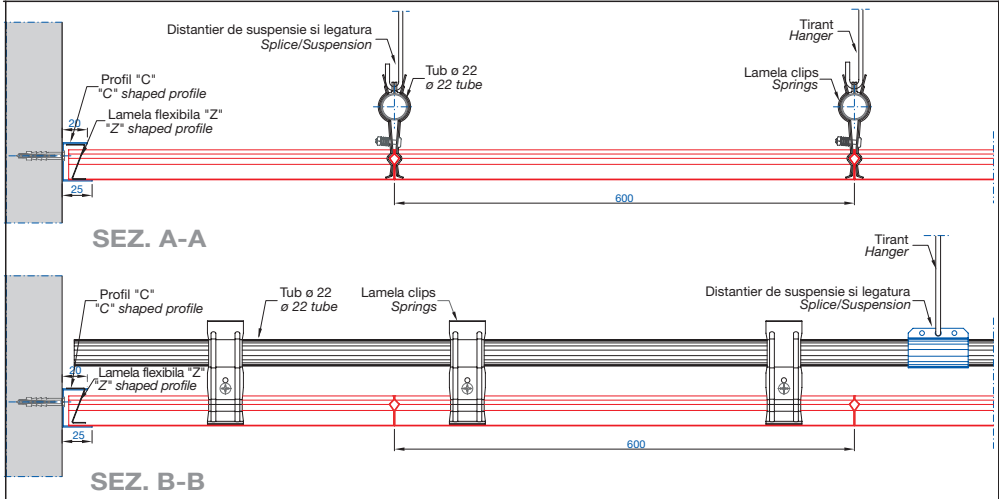
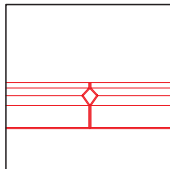
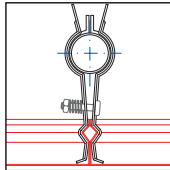
### PSN OPENING



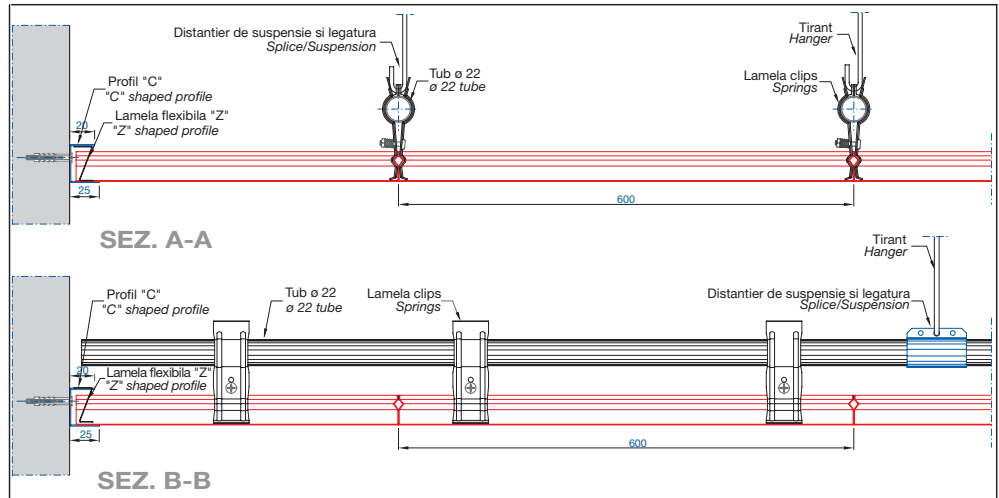
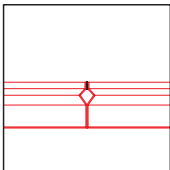
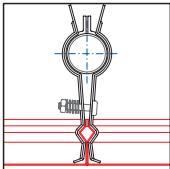
PSN CS



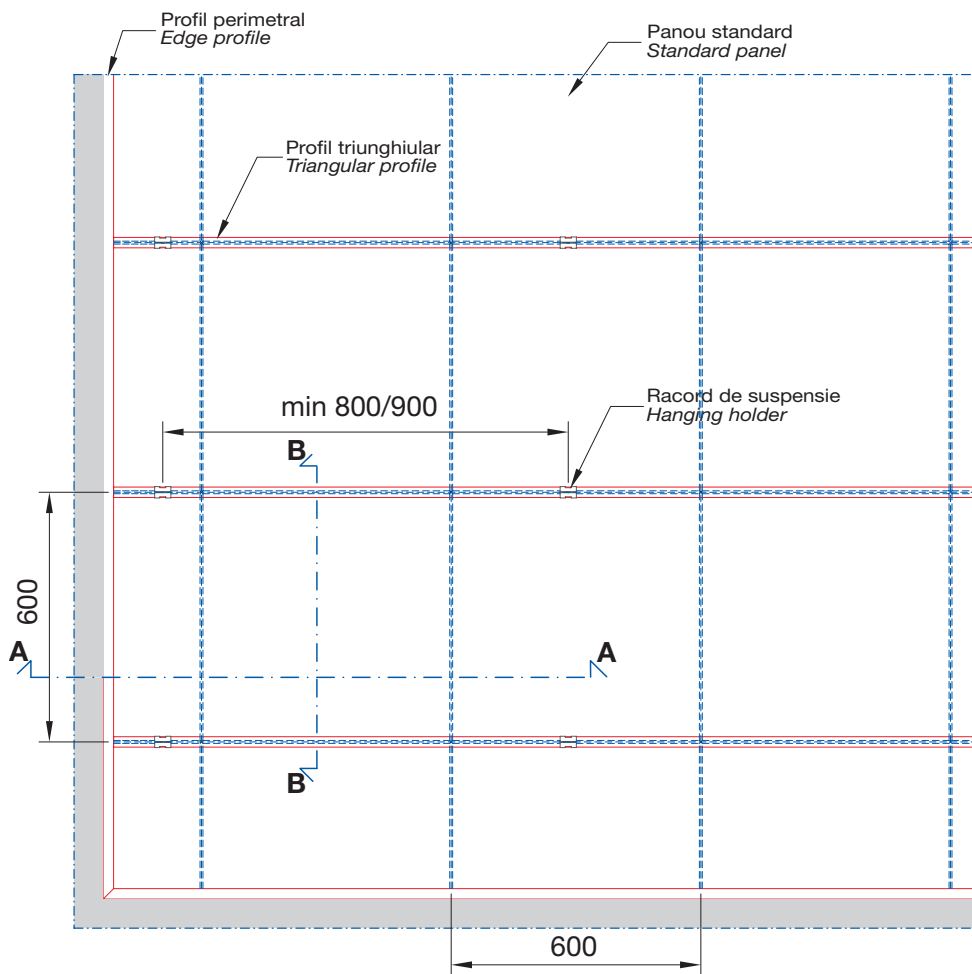
PSN TC



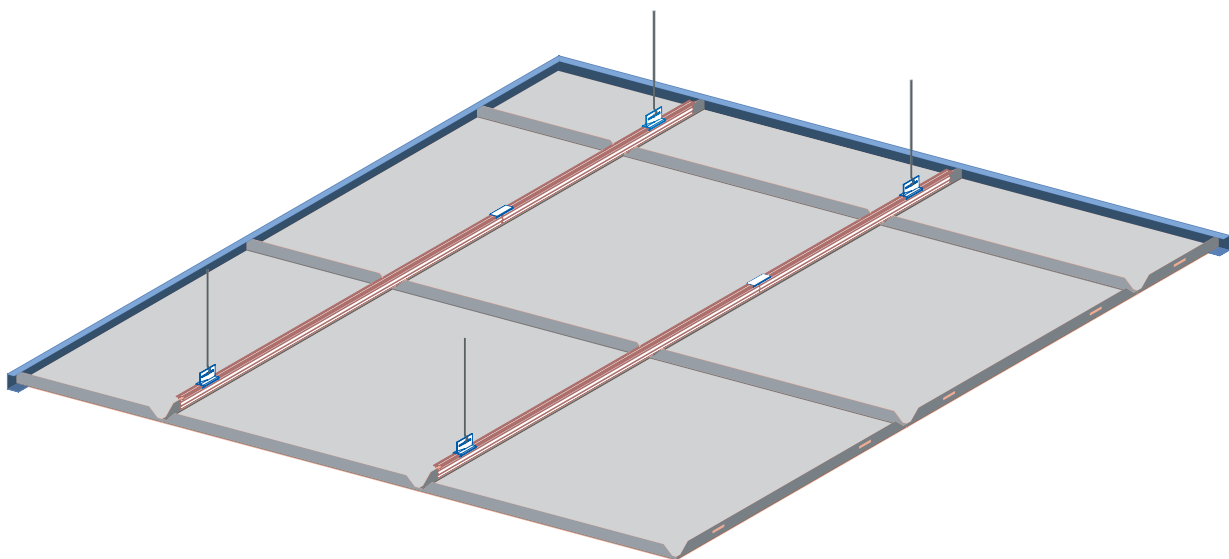
PSN TC A TENUTA



**PLANIMETRIE - PLAN**



**AXONOMETRIE - AXONOMETRIC PROJECTION**



## GHID DE SPECIFICATII      GUIDE TO SPECIFICATIONS

### • PROMETAL® PSN

Furnizarea de plafon metalic casetat PRO-METAL® PSV format din panouri montate prin clipsare pe o structura ascunsa:

- PSN
- PSN OPENING
- PSN CS
- PSN TC
- PSN TC A TENUITA

Realizat din otel zincat sau aluminiu

Grosime

- Prevopsit ALB
- Postvopsit conform cartelei de culori RAL

Finisajul panourilor:

- Compact
- Perforat in procent de

.....open area  
Tipologia de perforare.....according  
conform tabelului de perforatii atasat.

Dimensiuni.....x.....mm

Panourile pot fi livrate cu o captureala dintr-un filtru certificat SOUNDTEX® lipit la cald pe intradosul panoului si/sau cu o saltea termoizolanta. Panourile sunt montate prin clipsare pe o structura ascunsa formata din: Profil portant cu sectiunea in forma de triunghiular (PSN, PSN OPENING, PSN CS) Tuburi si lamele de clipsare (PSN TC, e TC a TENUITA)

Struttura:

- Simpla formata dintr-un profil triunghiular sau un tub Ø 22
- Dubla: realizata dintr-o structura simpla incrusisata cu o structura secundara formata dintr-un profil C si racorduri de suspensie
- Dubla: realizata dintr-o structura simpla incrusisata cu o structura secundara formata dintr-un profil C

Suspendarea este realizata cu ajutorul unor tiranti rigizi din otel zincat si a unor lamele flexibile.

Perimetral tavanul casetat va fi finisatcu un profil adecvat de tipul:

- "L"cu dimensiuni de 24x24mm sau 24x19mm
- "C"cu dimensiuni 20x32x25mm si cu lamele de presare din otel zincat de forma Z pentru blocarea panourilor de perimetral.
- Dubla "L" cu dimensiuni de 20x13x13x20 mm

Reactia la foc : clasa 0 conform D.M. din 26.06.84 (S.O.G.U.n° 234 din 25.08.84) si urmata de D.M. din 14.01.85 (G.U. n°16 din 19.01.85)

### • PROMETAL® PSN

Supply of modular false ceiling PROMETAL® PSN consisting of clip-in panels on concealed structure:

- PSN
- PSN OPENING
- PSN CS
- PSN TC
- PSN TC AIRTIGHT

Made of galvanized steel / aluminium

Thickness

- Standard white pre-painted
- Powder coated according to RAL colour list

Finishing:

- Plain
- Perforated

.....open area  
Type .....according  
to enclosed list of perforation patterns.

Sizes.....x.....mm

Perforated panels can be supplied with non woven fabric certified SOUNDTEX® sealed by hot gluing on the back of panels and/or mineral wool.

Panels are installed clip-in on concealed structure consisting of:

Spring tee (for the types PSN, PSN OPENING, PSN CS)

Tube and springs (PSN TC and PSN TC AIRTIGHT)

Structure:

- Single primary structure consisting of triangular profile or tube
- Double cross bracing structure including a secondary structure, consisting of "C" shaped profile and a joint plate to be fasten connected to the tee ro tube profile
- Double cross bracing structure including a secondary structure, consisting of "C" shaped profile and twist spring to be fasten connected to the tee ro tube profile

Hanging system with rigid hangers and adjusting spring.

Edge profiles in matching colours are available in following different shapes:

- "L" with sizes 23x23 mm
- "C" with sizes 20x32x25 mm with edge "Z" shaped elements made of steel to secure the partial elements to the profile
- "double L" with sizes 20x13x13x20 mm

Fire classification: class "0" D.M. dt 26.06.84 (S.O.G.U. n° 234 dt 25.08.84) and D.M. dt 14.01.85 (G.U. n° 16 dt 19.01.85)



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