



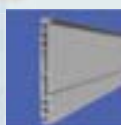
Patented fabric tensioning system

Technical literature

KPPS - KPPS sf & df

Illuminated signs

KPPS



Suited for the construction of simple face lightboxes.
Front tensioning ,
so possibility to fit the lightbox into a niche.
Delivered naked or painted white (RAL)

KPPS^{sf}_{df}



Suited for the construction of simple face
or double face lightboxes.
Side tensioning and "full face" lighting.
Delivered naked or painted white (RAL)



ISERMATIC
SYSTEMES

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www.isermatic.com

SPECIFICATIONS OF THE SYSTEM	ADVANTAGES	PROOFS
Something new	A way to differ	Used by big stores* (see listing below)
It is an adaptable product	Freedom of creation, can be bended	GAMM VERT, KILOUTOU, IBIS, IRISBUS, HOME SALON, VIRGIN..
Easy to use	No special tools are needed	A simple plastic-head hammer is enough
Nice to handle	Only noble components	Aluminium, PVC fabric
A unique support adaptable to many typs of markings	A only one product to handle	The fabric
Lots of applications	Openings to other markets	Architecture, Display
Adaptable on all the flexible supports	A unique system, a unique method	Fabric, metal canvas, tiveck, PVC fabric, etc...
A light and non in the way product	Costs for packaging and transport are lower	Only about 80 kg for a 100 m ² picture against about 800 kg and 8 m ³ for a iron sign
It is a product quickly to install	Saving of labours time at the installation	4 hours are enough for 2 persons to install a more than 50 m ² picture (10x5)
It is a light product	Easy to handle	A person can fit a 4m x 3m frame. No heavy handling means
It is a non voluminous product	Less stocking and handling	Canvas rolls or aluminium bars delivered
The construction can be made with many pre-assembled pieces	Easy to deliver	A light utility vehicle is enough
Product totally made to measure	No rest of fabric and aluminium	Fabric prices are pro m2, the rests of the profils can be reused
Innovative, prescribed and acknowledged	Know-how and quality guarantee	Prescribed by architects and big stores, Product approved by FERRARI
Tension without folds	Easy to fit	Demonstration
Adapted for big format	No more joints, a fabric only in one piece	Lots of realizations over 500 m2
Exceptional attitude for Outdoor	A resistant and secured snap mechanism	A tear-out resistance til 1360 KG/ML (approved by OFFICIAL REPORT)

THANKSO UR CUSTOMERS THE BIG STORES BELIEVEIN CRYSTAL :

* APPLE - AQUILLUS - AUCHAN - AXA - BIERE DE LA LICORNE - BMW - BOUYGUES TELECOM - BRICO MARCHE - BUREAU DES ARCHIS - GRAND PALAIS DE PARIS - CARREFOUR - CISCO SYSTEMES - CITE DES SCIENCES ET DE LOINDUSTRIE - CITROEN - COCA COLA - CONSERVATOIRE DE MUSIQUE DE CLAMART - COURTEPAILLE - CREDIT AGRICOLE - DARTY - ECOMARCHE - EDF - FIAT - FERRARI - FESTIVAL DE CANNES - FINA - FNAC - FRANCE TELECOM - GALERIES LAFAYETTE - GAMM VERT - GAZ DE FRANCE - HOME SALON - HOTEL IBIS - HOTEL LE MERIDIEN - HOTEL MERCURE - HYPER U - IKEA - INTERSPORT - INTERMARCHÉ - IRISBUS - KILOUTOU - LA HALLE AUX CHAUSSURES - LA HALLE AUX VETEMENTS - LA SAMARITAINE - LANCIA - LECLERC - LOUIS VITTON - MAC DONALDSO - MERCEDES - MOBILIER DE FRANCE - MOTOROLA - MUSEE COGNAC-J&J PARIS - MUSEE DE LA SOIRIE LYON - MUSEUM D'HIISTOIRE NATURELLE - NISSAN - PANO BOUTIQUE - PAR ASTERIX - PEUGEOT - PIZZA PAI - PIZZA PINO - QUICKSILVER - RADIO MONTE CARLO - RENAULT - ROLAND GARROS - SAMSUNG - SFR - TROC DE LILLE - VETI MARCHE - VIRGIN - VOLVO etc...

**Firm
certified
ISO 9001:2000
By**



Simple face & double-sided lightboxes in KPPS

KPPS & KPPS SF : Simple face

Description + assembly instructions 4

Lightbox in one piece 5

Lightbox in several pieces on 1 line 6

Lightbox in several pieces on 2 lines 7

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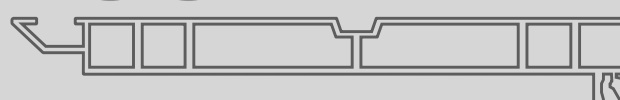
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KPPS *Front tensioning :*



KPPS SF *Side tensioning
& "full face" lighting :*



ISERMATIC

thanks you for having chosen Crystal :
The fabric tensioning system with many advantages.

SIMPLICITY

No making
No eyelets
No ropes
No hems

CONTINUAL TENSION

No clamps
No clips
No screw-system
No strings

ESTHETICALLY SPEAKING

No joint between panels
No plate

LIGHT DESIGN

No heavy,
rigid plate

EASY TO INSTALL

No heavy handling means

SAFETY

Tear proof up to
1360 kg/ml

Those directions for use enable you to make and to assemble lightboxes with right angles.

Nevertheless the flexibility the Crystal system provides, makes many forms possible (please note that the minimum bend-radius is 500mm - see page 9).

The production of these differs slightly from the general assembly instructions described here. We are always at your disposal for these special instructions. Feel free to contact us on

+33/04 74 86 69 90

Tear out
resistance til
1360 Kg/ml
certified
by report

KPPS

The profile KPPS, one profile of the CRYSTAL range, enables you to make simple face lightboxes.

KPPS suited for the construction of lightboxes with a PVC clamping bar in front (the PVC clamping bar can be visible or hidden by an aluminium moulding cover). In that case, the lightbox can be consequently totally fitted into a niche or into a dividing wall.

KPPS SF suited for the construction of lightboxes with a surrounding PVC clamping bar, not visible from the front view. Thanks to the inclination of their channels, this profile offers a «full face» lighting (* see page 10).

This profile KPPS fulfils your requirements with the reliable simplicity of the Crystal tensioning system. The profile KPPS can be supplied naked or painted white RAL. For other colours of the RAL scale, please contact us.

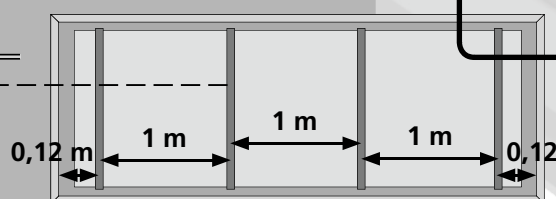
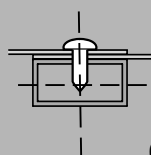
Size : 160 x 22mm Weight : 1.6 kg/ml

Instructions to assemble stiffeners and backwalls

Generally the stiffeners have to reinforce the lightboxes as well as the joints between backwalls. We recommend a maximal axis-distance of 1Meter between each stiffener.



The first stiffener has to be placed on the bracket EQ120, at approx. 0.12Meter from the bordure.

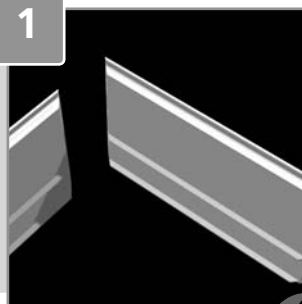


The distance between each stiffener depends both on the neon tubes and the electric components. So, you will valid this distance according to that. (see page 8)...

Description & Assembly plan

**CUT DOWN
THE PROFILES**

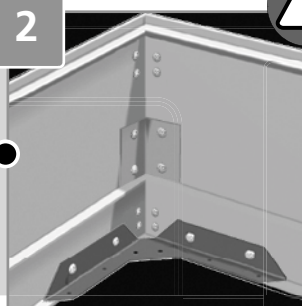
1



Cut down the profiles to the requested size in an angle of 45°

**ASSEMBLE
THE BOX***

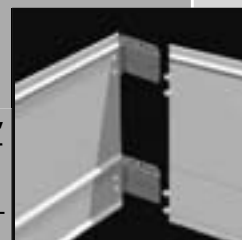
2



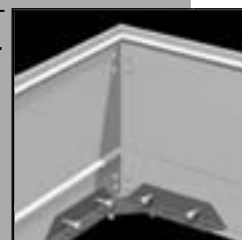
It is important to maintain the square when you fix the screws

Reference to corner construction

Set up the profiles, shove the four corner angles EQABS into the appropriate profile cavity and attach the corner with self-drilling screws.



Fasten the corner reinforcement EQ120 on the bottom with self-drilling screws



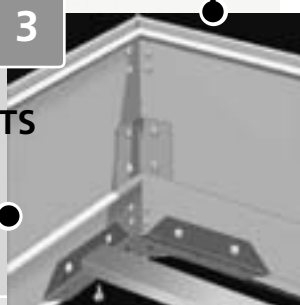
It is important to maintain the square when you fix the screws

Fasten corner reinforcement EQ with self-drilling screws.



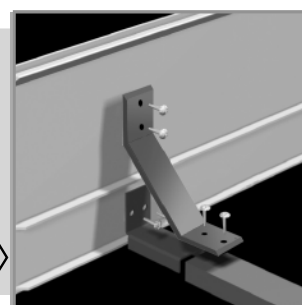
**FIX THE
STIFFENERS
& THE BRACKETS
EQ ERA**

3



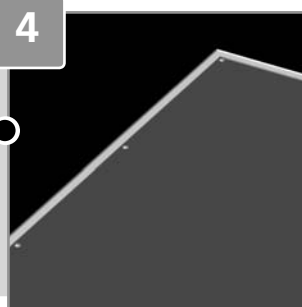
Place a stiffener SX30 on the corner reinforcement EQ120 at each side of the box and fix them then with a screw

Place the central stiffener(s) SX30. Fix them with a joiner EQ RAID. Fix then a bracket EQ ERA on each stiffener SX30 to avoid the profile to curve when the tensioning fabric.



**FIX TH
BACKWALL(S)***

4

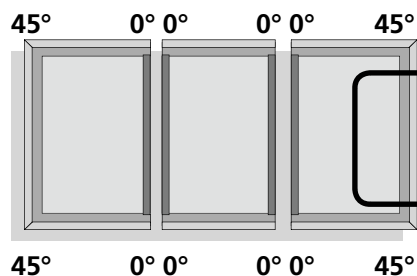


Turn around the box and measure the backwall. Cut the backwall to size with a circular saw. Fix the backwall with self-drilling screws all around and on the stiffeners.

*Specifications regarding the side tensioning KPPS SF profile: see page 10.

Assembly plan on one line

Case consisting of several parts with vertical division. At the end of every component a joiner tube TU is placed to stiffen the join.

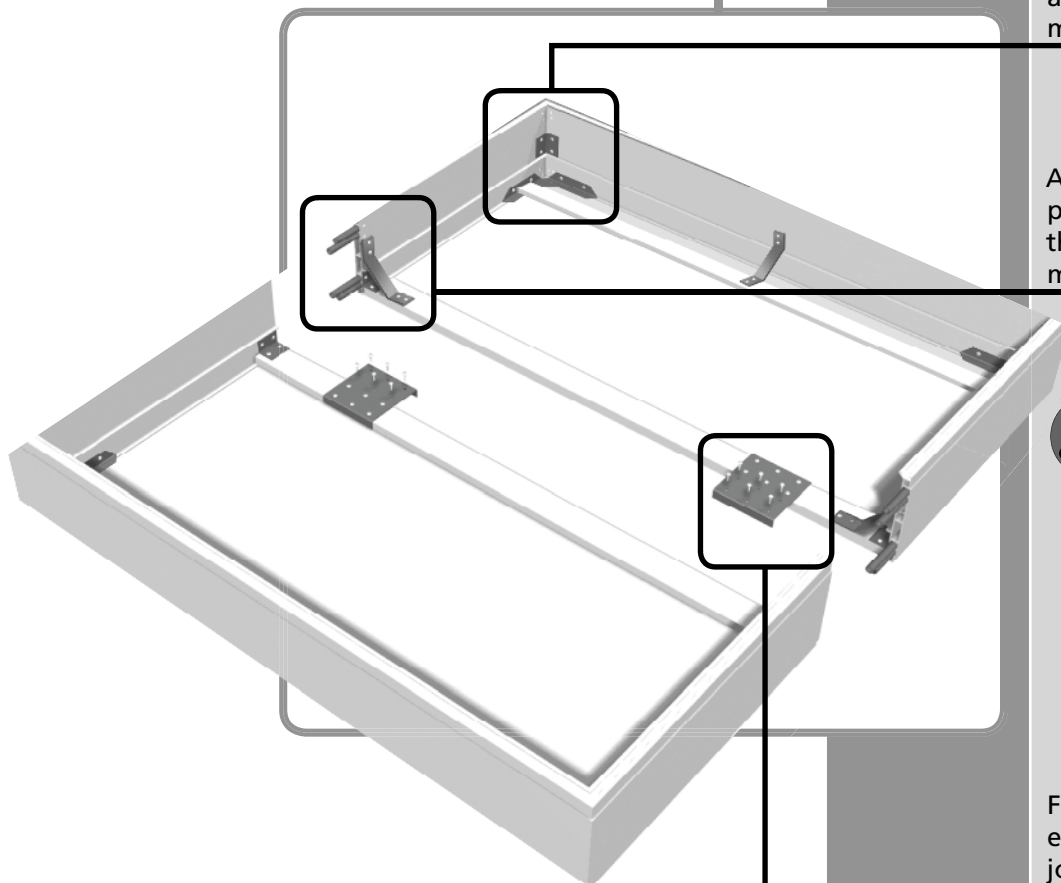


**CUT DOWN
THE PROFILES**

PRE-ASSEMBLE THE PARTS*

Assemble the corners according to instructions mentioned on page 5.

Assemble the separate parts according to the joint instructions mentioned above.



! *The stiffeners SX50 are fixed to the profile KPPS with the corner reinforcement EQ and not with the joiner EQ RAID, special for the stiffener SX30.*

Fix the stiffeners at the end of every part with the joiner FIX50 and prepare the fastening of the joiner plates CAV for the assembly following later on.

**FIX THE STIFFENERS
& THE BRACKETS
EQ ERA**

FIX THE BACKWALL(S)*

7

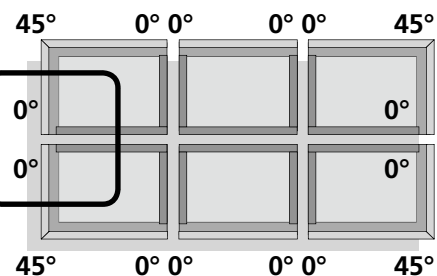
**ASSEMBLE THE
FINAL BOX**



on 2 lines

Assembly plan

Case consisting of several components with vertical and horizontal divisions, joined by the joiner tuber TU.



Pay attention where you have to cut the straight ends and the ends with an angle of 45°.



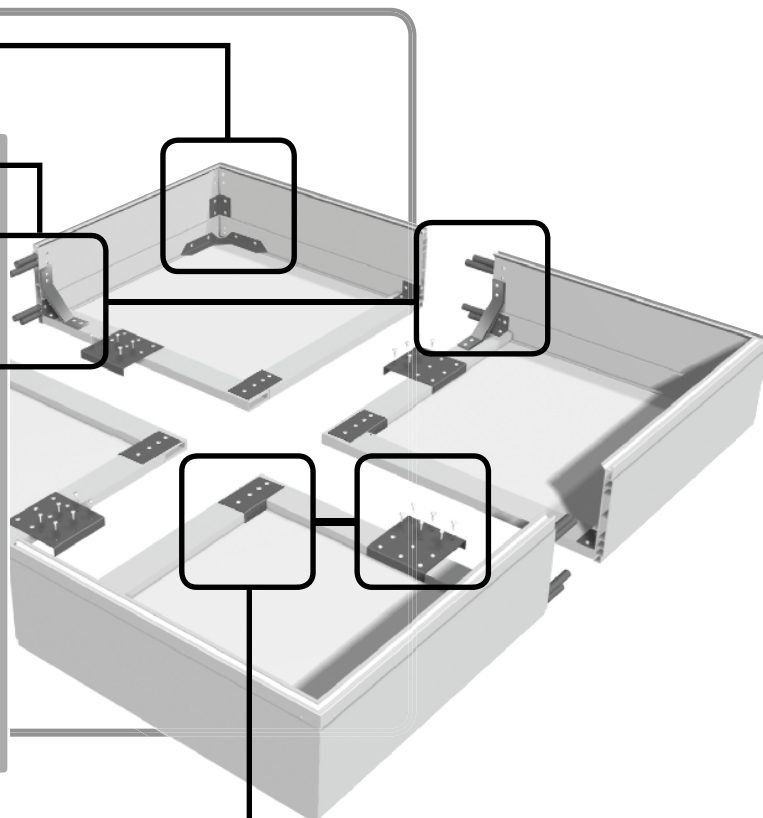
It is important to maintain the square when you fix the screws

Joints

Fix the joiner tube TU on one of the elements each and screw the joiner tubes from the inside.

All sides without KPPS profiles end will be completed with a stiffener SX50.

On the two stiffeners side by side, a only bracket EQ ERA is enough. The other one is fixed with a corner reinforcement EQ.



1

2

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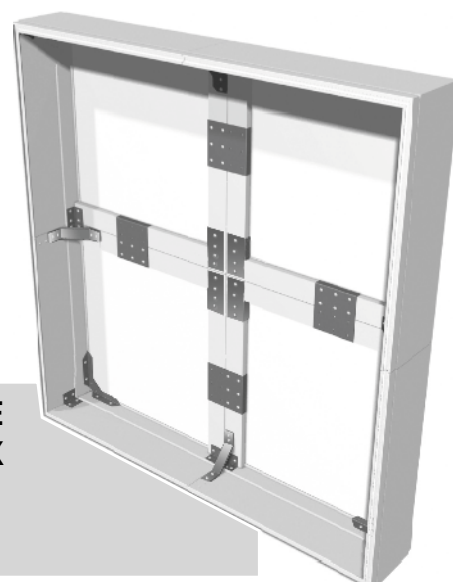
6

7

ASSEMBLE THE FINAL BOX

Except of the stiffeners SX50 «at the end of every part», each element is carried out as like a case consisting of a «only one piece».

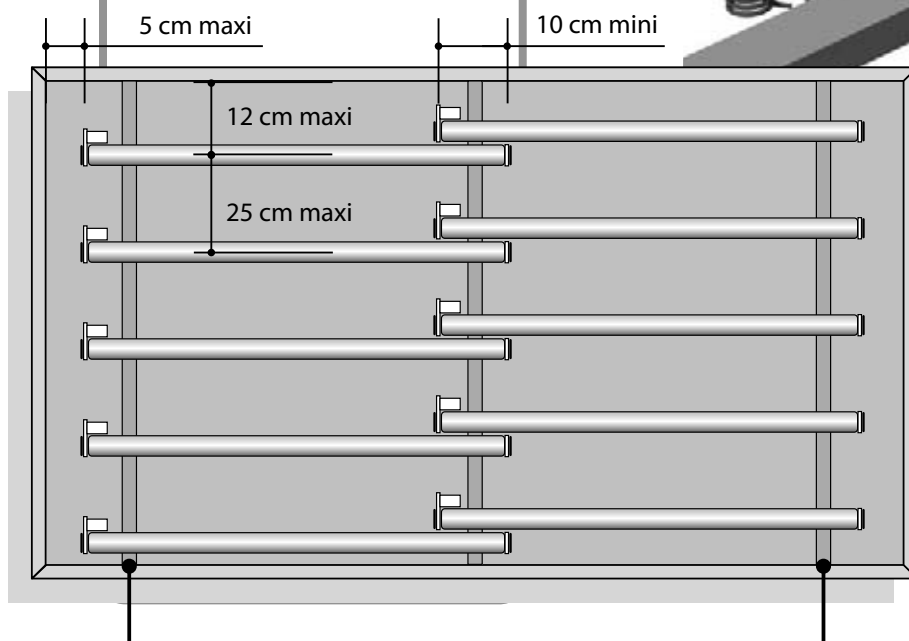
Fix the backwall on every element-part. Make sure that the stiffeners SX50 on elements are covered on parts without KPPS profile.



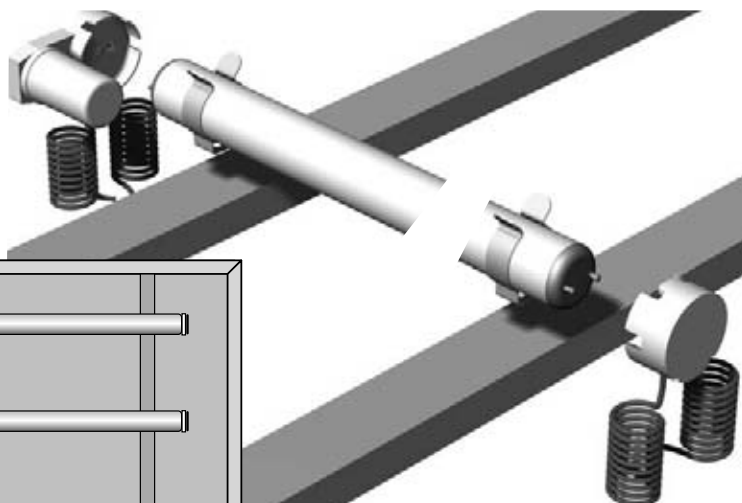
*Specifications regarding the side tensioning KPPS SF profile: see page 10.

Assembly plan

To achieve the best quality of lighting and rigidity of your box in KPPS profile, kindly follow the instructions below regarding the electric installation.



Attention : For the assembly of the installation further stiffeners may be needed.



The ballasts BAL (not illustrated) may either be attached onto the KPPS profile or onto one of the stiffeners.

The neon holders CN attached onto the stiffener with a self drilling screw enable you to clip them on the stiffeners.

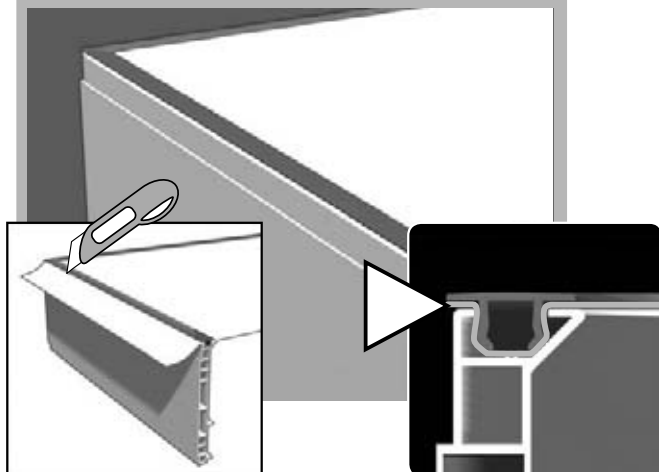
Afterwards the neon tubes are connected to electronic ballast with movable lamp sockets.

The profile KPPS offers two finishing of your box

Classic finishing

The clamping bar remains visible and presents itself as neat conclusion.

Using this solution, you need to cut off the fabric next to the clamping bar.

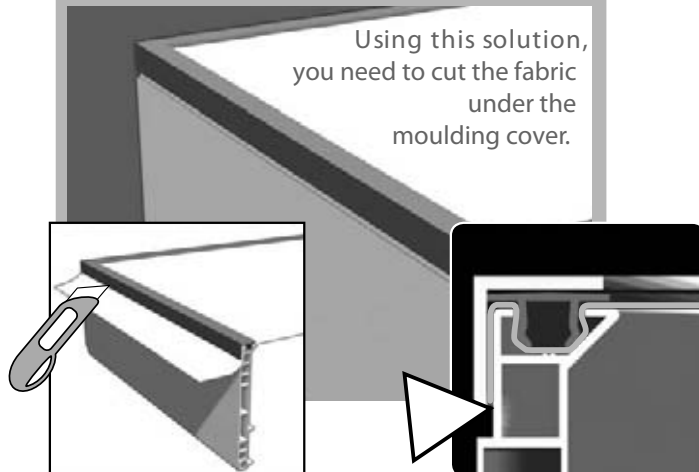


Front tensioning KPPS : finishing*

Finishing with a moulding cover

Due to the installation of a moulding cover L20 all around the box, you achieve the perfect conclusion. On the one hand the moulding cover hides and protects the clamping bar and on the other hand it makes the dismantling and re-use of the fabric easier later on.

Using this solution, you need to cut the fabric under the moulding cover.



* Specifications regarding the side tensioning KPPS SF profile: see page 10.

Construction

The flexibility the Crystal tensioning system provides makes many forms of boxes possible. We would like to introduce some examples here.

The production of these differs slightly from the general assembly instructions described here.

We are always at your disposal for these special constructions. Feel free to contact our technical team.



To meet your needs of creativity, the KPPS profile can be bended. Attention : minimum bend-radius is 50cm.



Very large-sized lightboxes

To prevent the fabric touching the neon tubes (in case of an external lightbox open to wind) or touching the structure of the lightbox, we recommend the use of distance plates AR. These are fixed to the stiffeners with self-drilling screws.



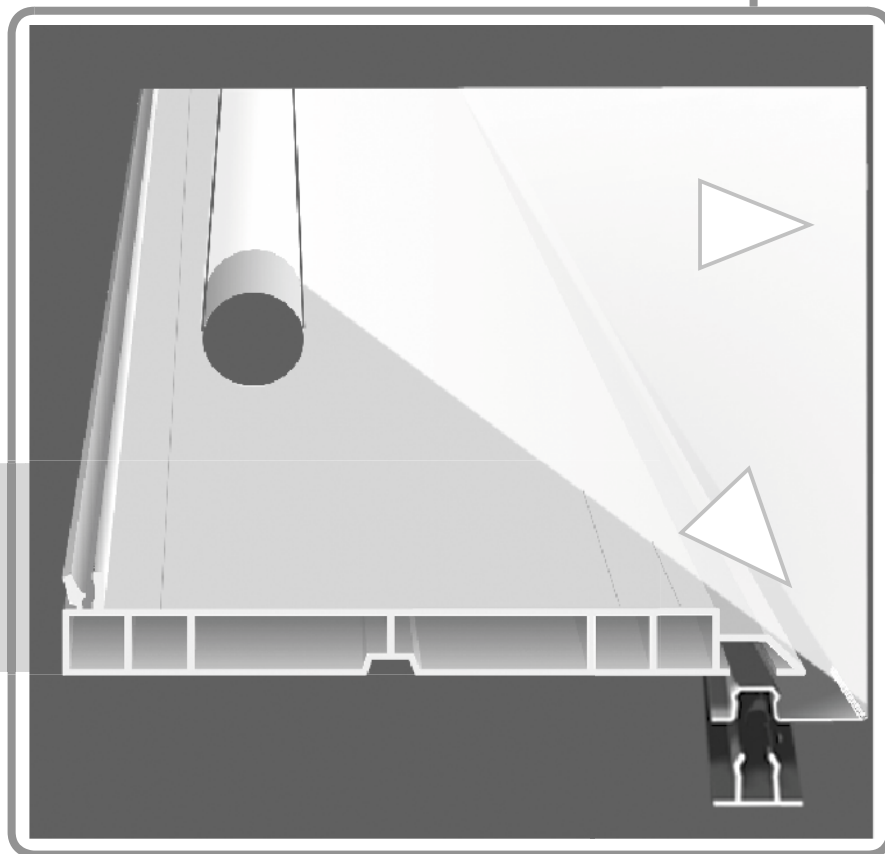
«full face» lighting

One of the main advantage of the **KPPS SF** is to obtain a «full face» lighting, avoiding shadows all around the box, thanks to the inclination of the channel (see picture below).

Note

The assembly plan for the construction of a lightbox described on previous pages is similar for KPPS and KPPS SF.

«FULL FACE» LIGHTING



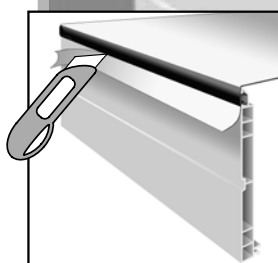
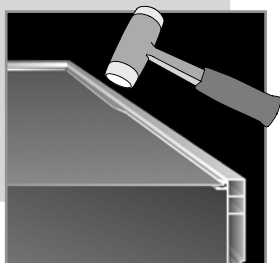
KPPS SF : FIXING OF THE BACKWALLS

On the back of the KPPS SF profile you have a groove «to slide» the backwall» of the lightbox.

During the construction of the lightbox (see page 4 and page 5), assemble just 3 sides and assemble the last one after fixation of the backwall.

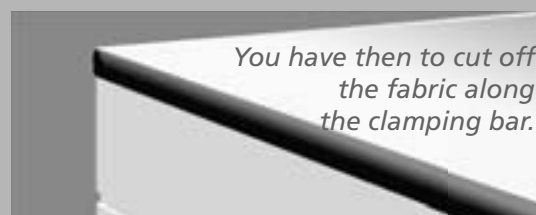
Cut first the backwall(s) down and fix it (them) in the groove. Assemble then the last side of the lightbox and flange then the part at regular intervals with the hammer to clip the backwall(s).

Then screw on the stiffeners.



Side tensioning KPPS SF & DF : finishing

The clamping bar is very discreet given it is on the side of the lightbox. Not visible from the front view (invisible when both clamping bar and profile have the same colour...).



You have then to cut off the fabric along the clamping bar.

lightboxes

Side tensioning
KPPS DF double-sided

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Double-sided lightbox 13

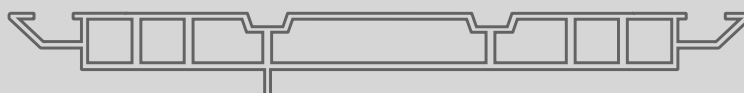
Double-sided lightbox
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Electric installation & finishing 16

The fastening and tensioning of the fabric 17

Components and profiles 18





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thanks you for having chosen Crystal :
The fabric tensioning system with many advantages.

SIMPLICITY

No making
No eyelets
No ropes
No hems

CONTINUAL TENSION

No clamps
No clips
No screw-system
No strings

ESTHETICALLY SPEAKING

No joint between panels
No plate

LIGHT DESIGN

No heavy,
rigid plate

EASY TO INSTALL

No heavy handling means

SAFETY

Tear proof up to
1360 kg/ml

Those directions for use enable you to make and to assemble lightboxes with right angles.

Nevertheless the flexibility the Crystal system provides, makes many forms possible (please note that the minimum bend-radius is 500mm).

The production of these differs slightly from the general assembly instructions described here. We are always at your disposal for these special instructions. Feel free to contact us on

+33/04 74 86 69 90

**Tear out
resistance til
1360 Kg/ml**
certified
by report

KPPS DF

The profile KPPS DF, one profile of the CRYSTAL range, enables you to make double face lightboxes.

KPPS DF, suited for the construction of lightboxes with PVC surrounding clamping bar. The two clamping bars are quasi not visible from the front view.

*KPPS DF offers a «full face» lighting thanks to the inclination of their channels (*see page 16). Moreover, its large depth offers a full lighting on each side avoiding shadows.*

This profile KPPS DF fulfils your requirements with the reliable simplicity of the Crystal tensioning system.

The profile KPPS DF can be supplied naked or painted white (RAL). For other colours of the RAL scale, please contact us.

Size : 190x22mm

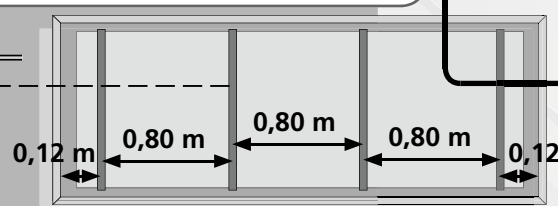
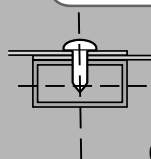
Weight : 1.8kg/ml

Instructions to assemble stiffeners and backwalls

Generally the stiffeners have to reinforce the lightboxes. Given the double sided lightbox does not have any backwall, we recommend a maximal axis-distance of 80cm between each stiffener.



The first stiffener has to be placed on the bracket EQ 120, at approx. 0.12Meter from the bordure.

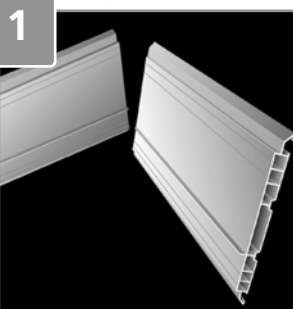


The distance between each stiffener depends both on the neon tubes and the electric components. So, you will valid this distance according to that (see page 16).

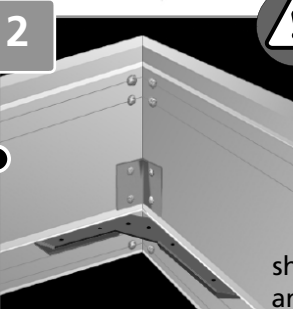
Description & Assembly plan

Remark

For the construction of a double-sided lightbox with several components and divisions joined by joining tubes, please follow the instructions described on the chapter regarding KPPS simple face.

**1
CUT DOWN
THE PROFILES**

Cut down the profiles to the requested size in an angle of 45°

**2
ASSEMBLE
THE BOX**

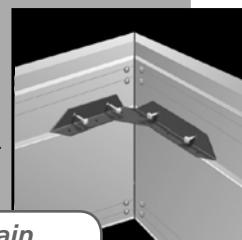
It is important to maintain the square when you fix the screws.

Reference to corner construction

Set up the profiles, shove the four corner angles EQABS into the appropriate profile cavity and attach the corner with self-drilling screws.

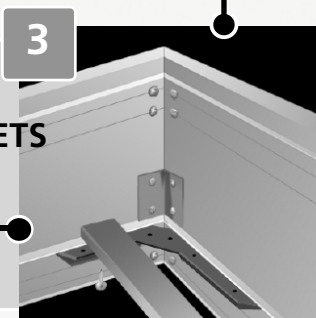


Fasten the corner reinforcement EQ120 on the bottom with self-drilling screws.



It is important to maintain the square when you fix the screws.

Fasten corner reinforcement EQ with self-drilling screws.

**3
FIX THE
STIFFENERS
& THE BRACKETS
EQ ERA**

Place a stiffener SX30 on the corner reinforcement EQ120 at each side of the box and fix them then with a screw

Place the central stiffener(s) SX30. Fix them with a joiner EQ RAID. Fix then a bracket EQ ERA on each stiffener SX30 to avoid the profile to curve when the tensioning fabric.

**RIGIDITY OF
THE LIGHTBOX**

Small format illuminated sign made with KPPS DF profiles are solid when installed.

For big format illuminated sign, the light structure does not enable the lightbox to be solid enough in case of free standing sign. In that case we recommend the construction of a metal structure to fix then the illuminated sign on it.

Construction

Remark :

Case consisting in the construction of a self-supporting lightbox. The lightbox can be fixed onto a pole or onto a wall with wall mounting brackets.

CUT DOWN THE PROFILES

Cut down the profiles to the requested size in an angle of 45°

PERFORATE THE SIGN TO SET UP THE TUBES

Perforate the case with a hole saw (diameter 32mm) as described in the picture.

ASSEMBLE THE LIGHTBOX

See page 5. The assembly plan is the same.

INSTALL THE TUBES 30X3

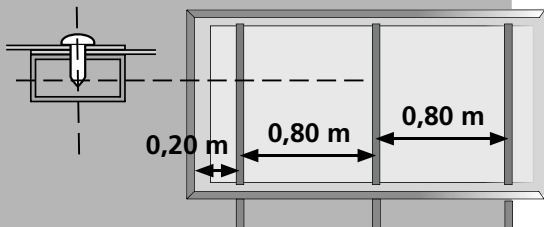
ASSEMBLY PLAN OF THE TUBES 30X3

Wall mounting brackets are extended with tubes of 30x3mm. Those tubes not only reinforce the lightbox as stiffeners but also are the basis to fix the electric material as well as the neon tubes on.

The maximum distance between each tube : 0.80m



The first tube has to be set up at 0.20m maxi from the bordure of the lightbox.



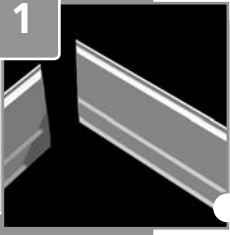
The distance between the tubes depend on the installation of the neon tubes and of the electric material. So the quantity will be define according to the situation (see page 16).

ELECTRIC INSTALLATION PRODUCTION & ASSEMBLY

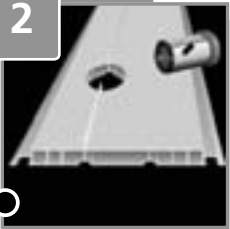
FASTENING OF THE WALL MOUNTING BRACKETS ON THE TUBES

Construction

1



2

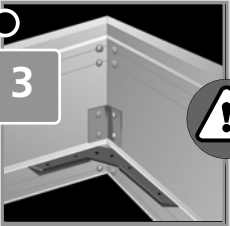
**Remark****Boring**

We recommend to bore from the external part from the profile



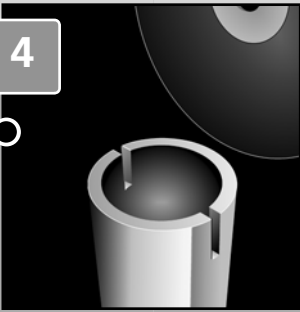
*Respect the distances !
(see page 14 regarding the
assembly instruction of the
tubes 30x3mm).*

3



*It is important to maintain the
square when you fix the screws.*

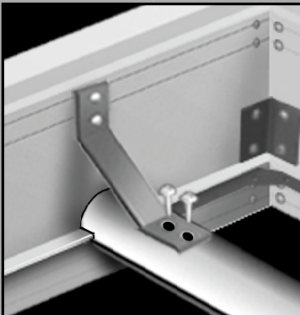
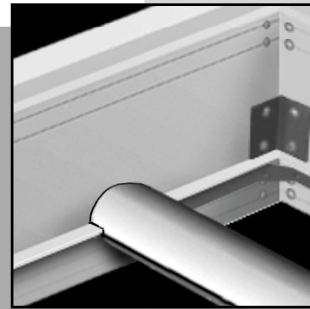
4

**Assembly plan**

First of all, make a section of ca. 10 mm on each side of the tube 30x3mm.



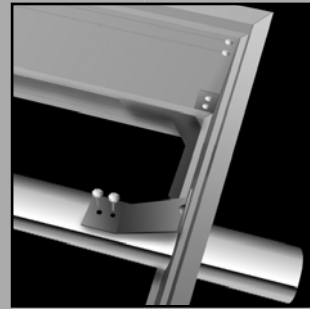
Shove the tube and put the sectioned part into the internal lip of the profile till it stops.



Fasten then brackets EQ ERA to fix the tube onto the profile.



Do the same in the opposite part . Thanks to the brackets the profile can not curve during the fabric tensioning.

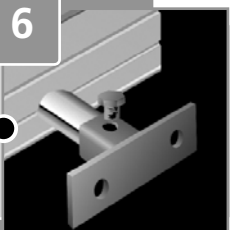


5



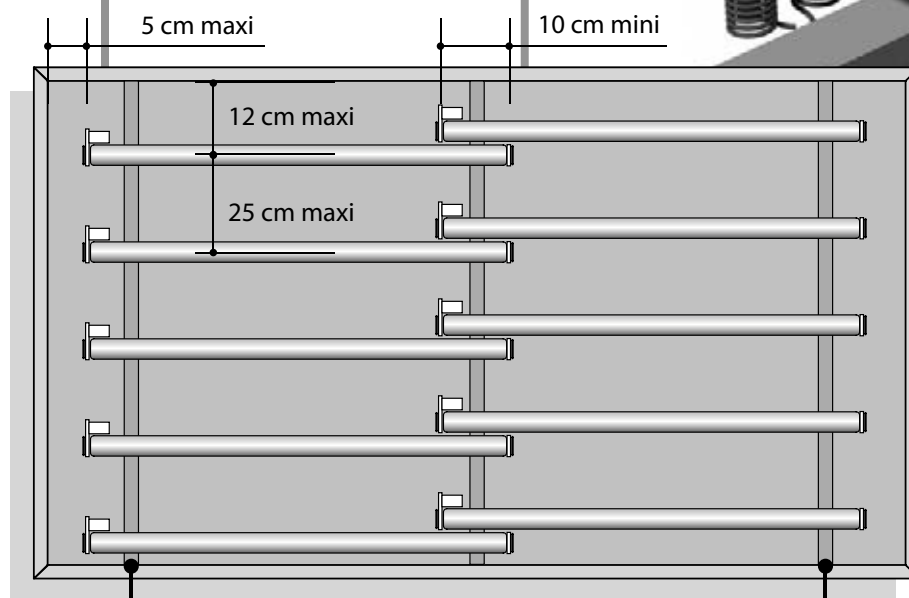
Install the power cable setting a cable hole into the side where the tubes are placed.

6

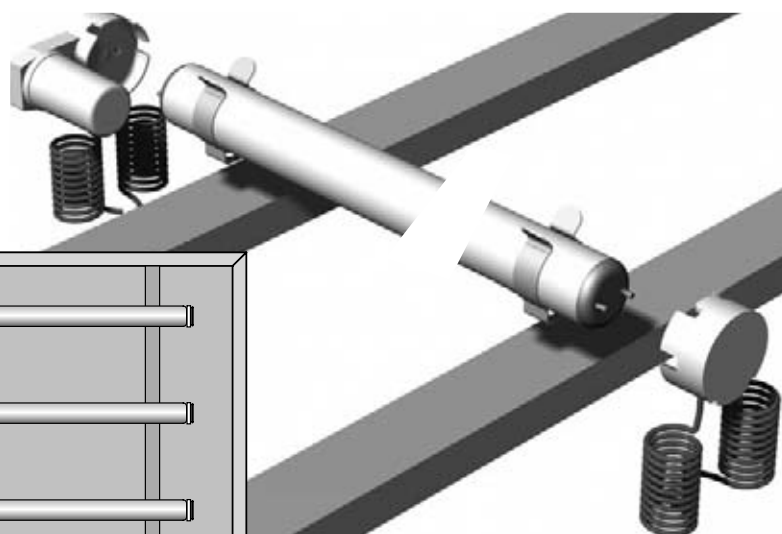


Assembly plan

To achieve the best quality of lighting and the best rigidity of your lightbox made in KPPS DF profile, kindly note the general hints to the electric installation given below.



Attention : according to the place of the electrical part, further stiffening profiles may be needed.



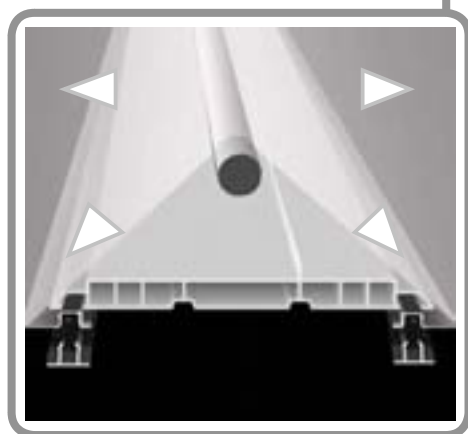
The control gears BAL (not illustrated) may either be attached onto the KPPS profile or onto one of the stiffening profiles. Afterwards the fluorescent lamp-installations are fixed.

The neon holders CP, fixed with a self-drilling screw enable you to clip them on the stiffeners.

The neon tubes are then connected to electronic ballast with movable lamp sockets.

«FULL FACE» LIGHTING

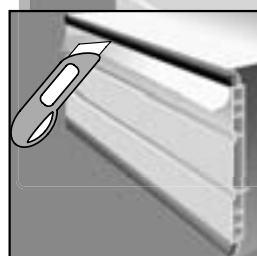
The main advantage of the KPPS DF profile is the fact that it offers a full lighting on each side avoiding shadows, thanks to the inclination of its channel (see picture).



Side tensioning KPPS DF : Finishing

The clamping bar is very discreet given it is on the side of the lightbox. Not visible from the front view (invisible when both clamping bar and profile have the same colour...).

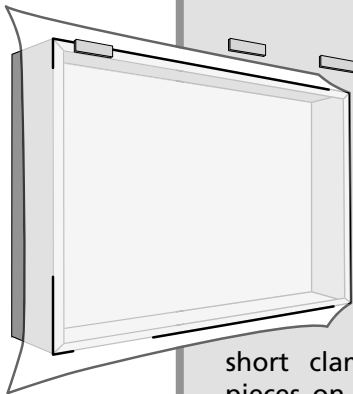
You have then to cut off the fabric along the clamping bar.



Instructions

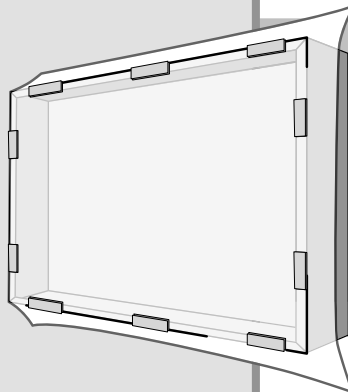
1 CUSTOMIZING OF THE FABRIC

The fabric needs to be approximately 10cm wider than the frame on each side.

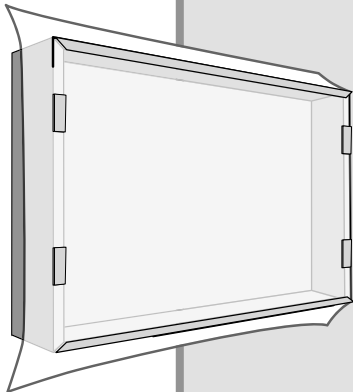


ALIGNING THE FABRIC

Place the short clamping bar pieces on the upper side for positioning and pretensioning.

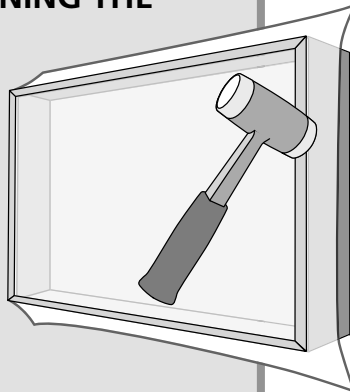


Repeat this step at the lower side and at the sides, gently pulling the fabric.



TENSIONING THE FABRIC

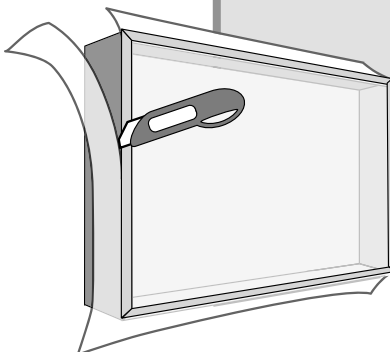
Fasten and stretch the fabric with the clamping bar. Kindly note the position of the profile sections.



4 Remove one profile-section after the other.

CUTTING OFF THE FABRIC

Once the fabric is stretched, the protrusion of the fabric needs to be cut off- (depending on the kind of finishing chosen).



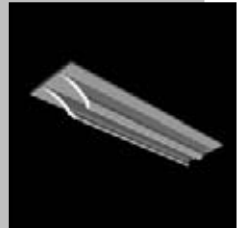
The fastening and tensioning of the fabric form the conclusion of the CRYSTAL system. Please exactly follow the installation instructions and only use the tools recommended by ISERMATIC.



Attention : To stretch the fabric, always use a non rebound plastic-head hammer.

CLAMPING PROFILE SECTIONS

The profile-sections are remnant pieces with a length of approximately 10 to 30cm.



CHOICE OF CLAMPING BAR

JN



JR



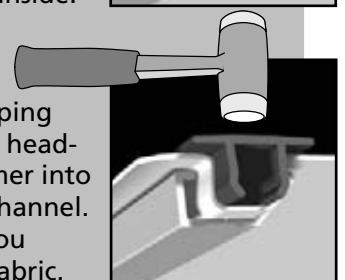
For lightboxes used inside, please choose the standard clamping bar JN. For lightboxes used outside, please choose the reinforced clamping bar JR. The standard colour is white (different colours available).

FASTENING OF THE CLAMPING BAR

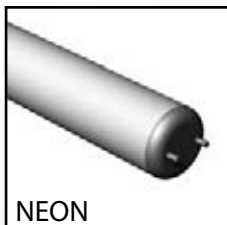
Clamp the fabric by first of all shoving the bar from the exterior edge to the inside.



Hit the clamping bar with the head-plastic hammer into the profile channel. Doing this you stretch the fabric.



CRYSTAL®
Patented tensioning system



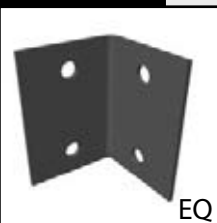
NEON

Components & profiles

Lightboxes
in KPPS
profile



EQ ABS



EQ



EQ 120



EQ ERA



EQ RAID



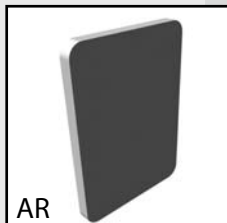
FIX 50



CN

ELECTRONIC
BALLAST

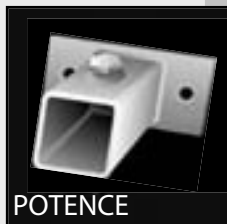
TU



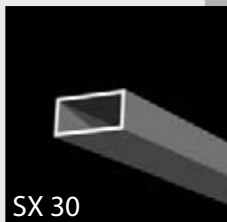
AR



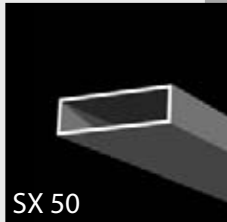
TUBE 30x3



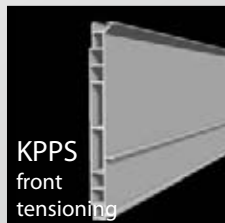
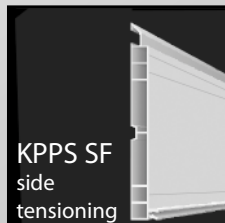
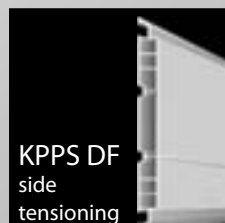
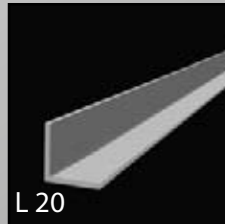
POTENCE



SX 30



SX 50

KPPS
front
tensioningKPPS SF
side
tensioningKPPS DF
side
tensioning

L 20



JN



JR



VisAFTR3.5x13



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email : commercial@isermatic.com

Extract from REPORT

File Nr. 745701 - Inquiry Nr. 2975 - dd November 25th, 2002

Subject : Pull-out tests on the whole
"CRYSTAL" system aluminium profil - fabric

1- Items supplied by the requester :

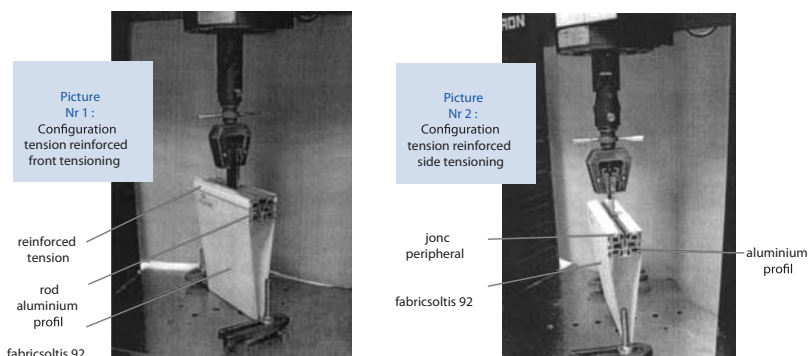
All the fabrics have the trademark "Ferrari"

- profil KT + / tension reinforced tension rod in front / Fabric 502 - Mark CETIM 1 (picture Nr1)
- profil KT + / tension reinforced tension rod in front / Fabric Defender 7760 - Mark CETIM 2 (picture Nr1)
- profil KT + / tension reinforced tension rod in front / Fabric Precontraint 371 - Mark CETIM 3 (picture Nr1)
- profil KT + / tension reinforced tension rod in front / Fabric Precontraint 1302 - Mark CETIM 4 (picture Nr1)
- profil KT + / tension reinforced tension rod in front / Fabric Soltis 92 - Mark CETIM 5 (picture Nr1)
- profil KT + / tension reinforced tension rod in side / Fabric Soltis 92 - Mark CETIM 6 (picture Nr2)
- profil KT + / tension reinforced tension rod in side / Fabric Precontraint 502 - Mark CETIM 7 (picture Nr2)
- profil KT + / tension reinforced tension rod in side / Fabric Defender 7760 - Mark CETIM 8 (picture Nr2)

2 - Tests performed :

Tests performed with Sirs ANTOINE and JACQUET of the firm ISERMATIC SYSTEMES.

- You can find hereunder the pictures explaining the configuration of the 2 different set-ups for the test.
- The pull-out test was performed on the Instron 1116 tensile testing machine.
- The speed of the load is 1 cm/minute.



3 - Results :

Mark CETIM	Resistant of the fabri c	Last load * daN	Resistan ce daN /m
1	2 x 25 cm	490	980
2		550	1100
3		550	1100
4		350	700
5		480	960
6	2 x 25 cm	650	1300
7		660	1320
8		680	1360

* the last load at which the tension rod pulled out from the aluminium profil's groove

Metallurgy Technician
Michel CELLE

Metallurgy Department Manager
Bernard GAGNAIRE

P.O. *Duval Pectini*
jechini

Gagnaire





Patented fabric tensioning system

Innovate on new markets with the Crystal system

Efficient: Tear-proof tested
No limit of format



Simple: Easy and fast to install



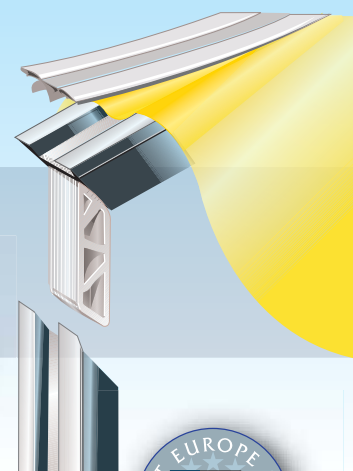
Aesthetic: No plates, no joints (fabric in a only one piece)



-Approved by-



Firm
certified
ISO 9001:2000
By



ISERMATIC®
SYSTEMES

BP 128 - 38551 St MAURICE L'EXIL cedex - FRANCE - Tél. (+33) 04.74.866.990 - fax (+33) 04.74.86.34.40

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