

Various applications

Page
5

Crystal system's benefits and security

Page
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Installation guide: Front tensioning

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37

- Frames & structures

KT

Page
7

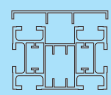
- Thin large format frames
- **2 channels for tensioning**
- Installation on rigid surfaces
- Self-supporting structures (indoor only)



KT+

Page
9

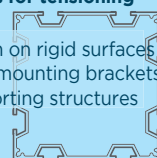
- Large format frames
- **6 channels for tensioning**
- Installation on rigid surfaces
- Self-supporting structures



P100

Page
11

- Large format frames
- **8 channels for tensioning**
- Installation on rigid surfaces
- With wall mounting brackets
- Self-supporting structures

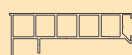


- Lightboxes single-sided

KPPS SLIM

Page
13

- Thin lightbox single sided**
- Smooth surfaces
 - **83mm depth**
 - **Front tensioning**
 - Built-in
 - Support feet (indoor only)



KPPS

Page
15

- Standard lightboxes single sided**
- Ribbed or smooth surfaces
 - **160mm depth**
 - **Front tensioning**
 - Built-in
 - Support feet (indoor only)



KPPS SF

Page
17

- Ribbed or smooth surfaces
- **160mm depth**
- **Side tensioning**
- Support feet (indoor only)



- Lightboxes double sided

KPPS DF 190

Page
19

- Large lightboxes single or double sided**
- Ribbed surfaces
 - **190mm depth**
 - **Side tensioning**
 - Support feet (indoor only)



KPPS DF 300

Page
19

- Smooth surfaces
- **300mm depth**
- **Front tensioning**
- Installation on rigid surfaces



KTA Bond

Page
21

- **Profiles to stick!**
- **Vehicles cladding & smooth surfaces** which cannot be perforated (refrigerated trucks, trailers, aluminum carpentries, etc.)



- Indoor removable frames

KP

Page
23

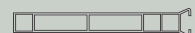
- **Front, back or side tensioning**
- Bearing hanging panels <2000mm in height



KPP

Page
25

- **Side tensioning**
- Bearing hanging panels >3500mm in height



KL+

Page
27

- **Back inclined tensioning**
- Bearing wall or hanging frames <2500mm x 1500mm



- Indoor architecture

KTA

Page
29

- **Light profile for indoor**
- **Front tensioning**
- To recover flat or bended surfaces



KTN

Page
31

- **Light profile for indoor**
- **Front, back or side tensioning**
- To recover flat or bended surfaces



C

Page
33

- Profile to use in combination with:
- **KTN for a salient angle**
 - **KPPS for a lightbox double sided with front tensioning**

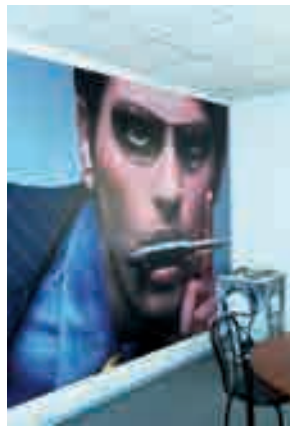


INDOOR/OUTDOOR

INDOOR ONLY

GALLERY of our clients' realizations





► SECURITY:

Tear proof up:
1 360kg/ml

Page
34
Page
35

► SIMPLICITY:

Fast and easy
to install

Page
37
Page
39

► AESTHETIC:

No plates, no joints

Lightboxes from the Crystal range - Indoor and Outdoor

Product details:

Profiles	Area of use	Dimensions	Nuts for tensioning	Weight	Bending	Page
 KPPS Slim	- Lightboxes single sided possible to built-in - To fit onto a wall or with feet	83x29mm	front tensioning	1.35 kg/ml	NO BENDING 	Page 13
 KPPS	- Lightboxes single sided possible to built-in - To fit onto a wall or with feet	160x22mm	front tensioning	1.64 kg/ml	one direction only Minimal diameter: 1000mm	Page 15
 KPPS SF	- Lightboxes single sided "Full face" lighting - To fit onto a wall or with feet	160x22mm	side tensioning	1.65kg/ml	one direction only Minimal diameter: 700mm	Page 17
 KPPS DF	- Lightboxes double sided "Full face" lighting - To fit onto a wall with wall mounting brackets or with feet	190x22mm => 300x22mm =>	side tensioning Front tensioning	1.78kg/ml 3.55kg/ml	one direction only Minimal diameter: 700mm (DF190)	Page 19

Added information: technical features of lightboxes:

Profiles	Type	Power consumption	Light intensity	Page
 KPPS Slim	LED backlit lightbox	Approx. 70w/sqm	Between 600 and 1200 candelas/sqm	Page 13
 KPPS		Approx. 25w/sqm	Between 350 and 500 candelas/sqm	Page 15
 KPPS SF				Page 17
 KPPS DF 190	LED edge lit lightbox	Approx. 20w/sqm	Between 200 and 400 candelas/sqm	Page 19
	T5 fluorescent tubes	Approx 100w/sqm	Between 600 and 1000 candelas/sqm	

Solutions for indoor architecture

Product details:

Profiles	Area of use	Dimensions	Nuts for tensioning	Weight	Bending	Page
 KTA	- Indoor architecture - Permanent frames up to 24sqm - Can be used to be fitted on curved supports	27.3x9mm	Front tensioning	0.15kg/ml	Flat, by hands	Page 29
 KTN	- Indoor architecture - Permanent frames up to 24sqm - Can be used to be fitted on curved supports	22x20mm	Front, back or side tensioning according to the fitting	0.25kg/ml	2 directions Minimal diameter: 1000mm	Page 31
 C	- Profile to combine - Examples : - with KTN (to create right angles) - with KPPS (double sided lightboxes)	20x8mm	Front, back or side tensioning according to the fitting	0.12kg/ml	Flat, by hands	Page 33

Large format frames and/or façade cladding

Product details:						
Profiles	Area of use	Dimensions	Nuts for tensioning	Weight	Bending	Page
 KT	- Big format frames to fix onto rigid supports	60.5x24mm	2 nuts Front tensioning	1.05 kg/ml	Flat Minimal diameter: 1000mm	Page 7
 KT+	- Big format frames to fix onto walls, self supporting frames to hang or frames to fix onto rigid supports	64x36.5mm	6 nuts Front or side tensioning	1.43 kg/ml	Flat Minimal diameter: 1000mm	Page 9
 P100	- Big format frames to fix onto walls or at a certain distance from the wall with wall mounting brackets or self-supporting frames	100x100mm	8 nuts Front or side tensioning	3.10kg/ml	NO BENDING 	Page 11
 KTA Bond	- Profile to stick! - Used to stretch banners onto supports which cannot be perforated.	27.3 x 9mm	Front, back or side tensioning according to the fitting	0.15 kg/ml	Flat, by hands	Page 21

Removable frames for outdoor or indoor use

Product details:						
Profiles	Area of use	Dimensions	Nuts for tensioning	Weight	Bending	Page
 KT	- Partitions or screen walls double-sided - Indoor use only - Suspended panels	60.5 x 24mm	2 nuts Front, back or side tensioning	1.05 kg/ml	Flat Minimal diameter: 1000mm	Page 7
 KT+	- Partitions or screen walls double-sided - Palisades, exhibition stands - Large format suspended panels	64x36.5mm	6 nuts Front, back or side tensioning	1.43 kg/ml	Flat Minimal diameter: 1000mm	Page 9
 P100	- Frames, partitions single or double-sided - Palisades and exhibition stands	100x100mm	8 nuts Front or side tensioning	3.10 kg/ml	NO BENDING 	Page 11

Removable frames for indoor use only

Product details:						
Profiles	Area of use	Dimensions	Nuts for tensioning	Weight	Bending	Page
 KP	Hanging frames or frames to fix: - Small format frames - Wall panels - Suspended ceiling panels - Long panels up to 2000mm	34 x 20mm	Front, back or side tensioning	0.31 kg/ml	2 directions Minimal diameter: 1000mm	Page 23
 KPP	Hanging frames or frames to fix: - Large format frames - Sliding screen walls - Wall panels - Backlit frames - Long panels up to 3500mm	125 x 20mm	Side or front tensioning	1.17 kg/ml	Flat Minimal diameter: 1000mm	Page 25
 KL+	Hanging frames or frames to fix: - Thin wall panels - Suspended ceiling panels	49.15 x 20.16mm	Back tensioning	0.36 kg/ml	NO BENDING 	Page 27

Examples of realizations:

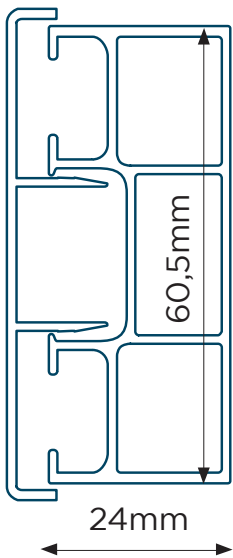


Technical characteristics of the fabric tensioning system

KT

► suited for thin large format frames

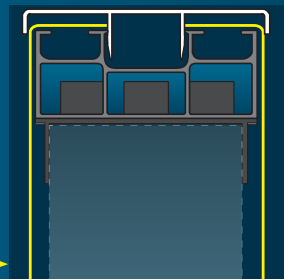
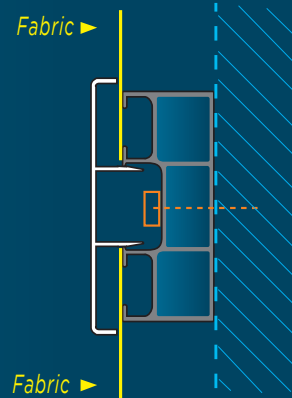
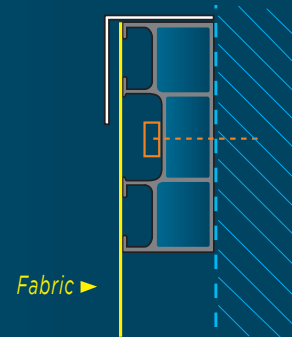
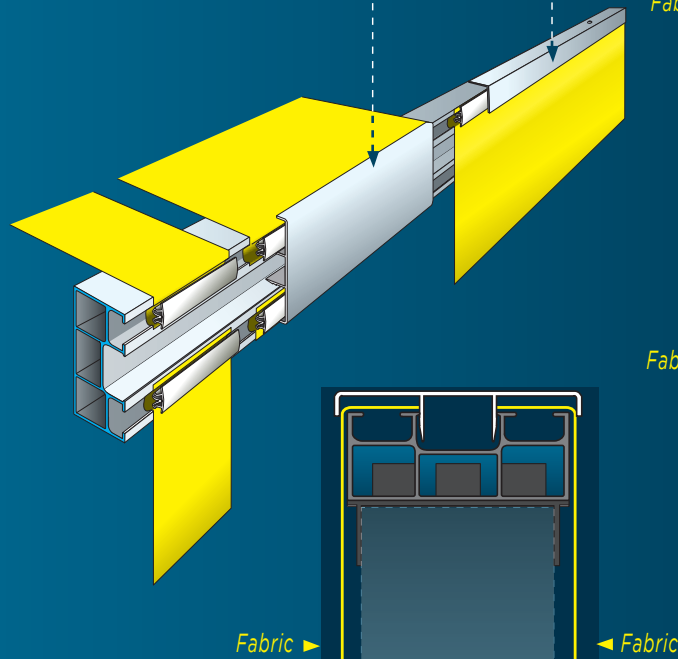
- 2 channels for tensioning
- Smooth surface on the back and on the side.
- Possible finishing with a moulding cover.



Possible fittings:

- Fixed onto a wall
- or for self-supporting frames
- Fixing accessories hidden by the fabric.

Possibility to use a moulding cover**



Fabric tensioning system



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

FLAT ONTO A WALL
or
SELF-SUPPORTING
FRAMES

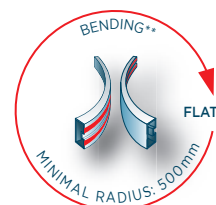


FORMAT :
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LENGTH:

**3,50m.
& 5,00m.**
Other length on request

ISO 9001
BUREAU VERITAS
Certification



*Except for
self-supporting frames

**With moulding cover:
impossible to bend the
moulding cover

Examples of realizations:



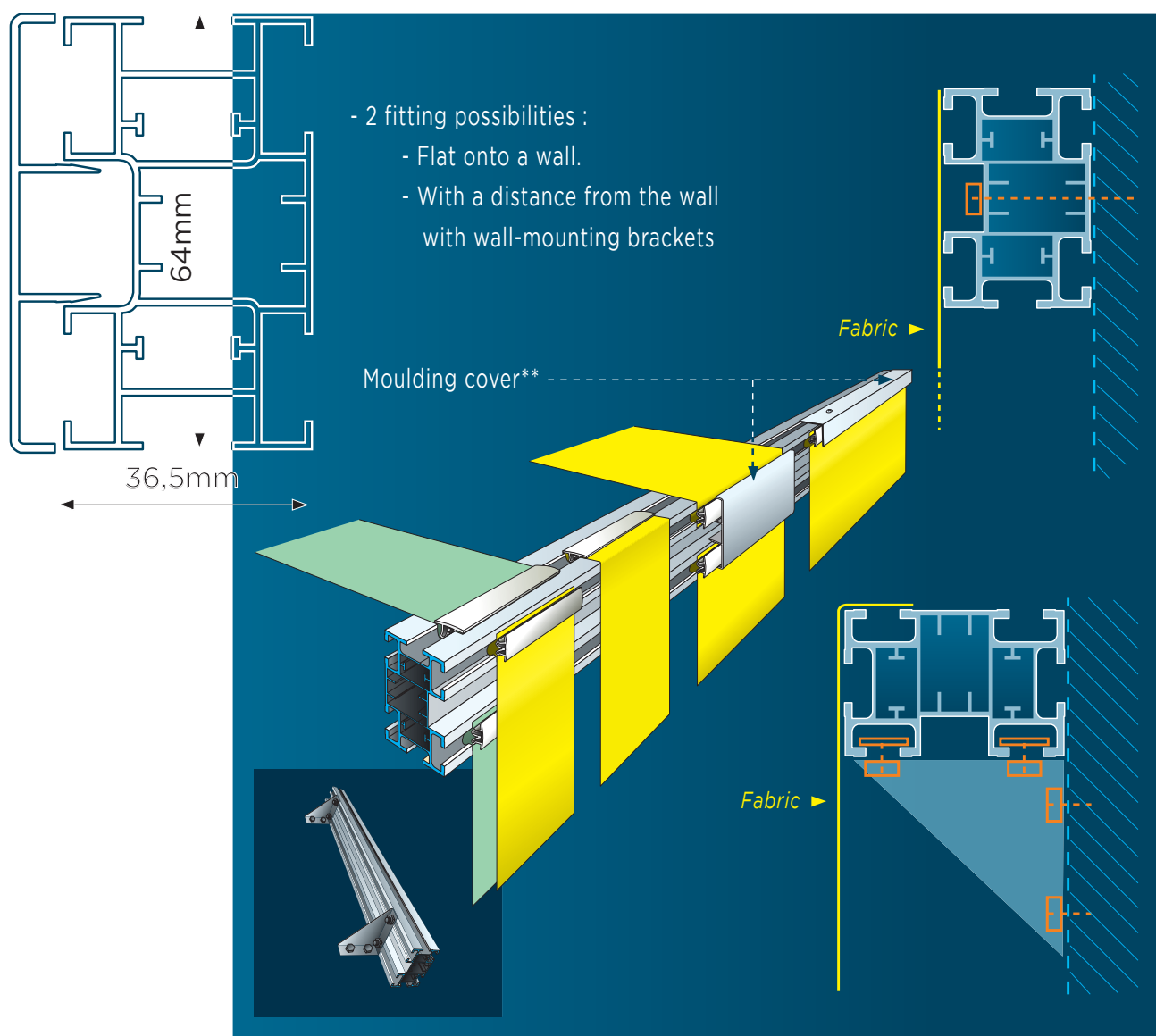
Technical characteristics of the fabric tensioning system

KT+

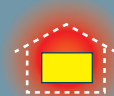
► Large format advertising

Building wrap

- 6 channels: side or front tensioning
- Possibility to stretch one fabric onto the other one
- Bearing profile: fitted directly onto the wall or with wall mounting brackets



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

FLAT ONTO A WALL
or
SELF-SUPPORTING
FRAMES



FORMAT:

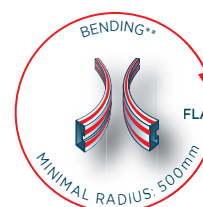
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LIMIT***

LENGTH:

**3,50m.
& 5,00m.**

Other length on request

ISO 9001
BUREAU VERITAS
Certification



*Except for
self-supporting frames

**With moulding cover:
impossible to bend the
moulding cover

Examples of realizations:

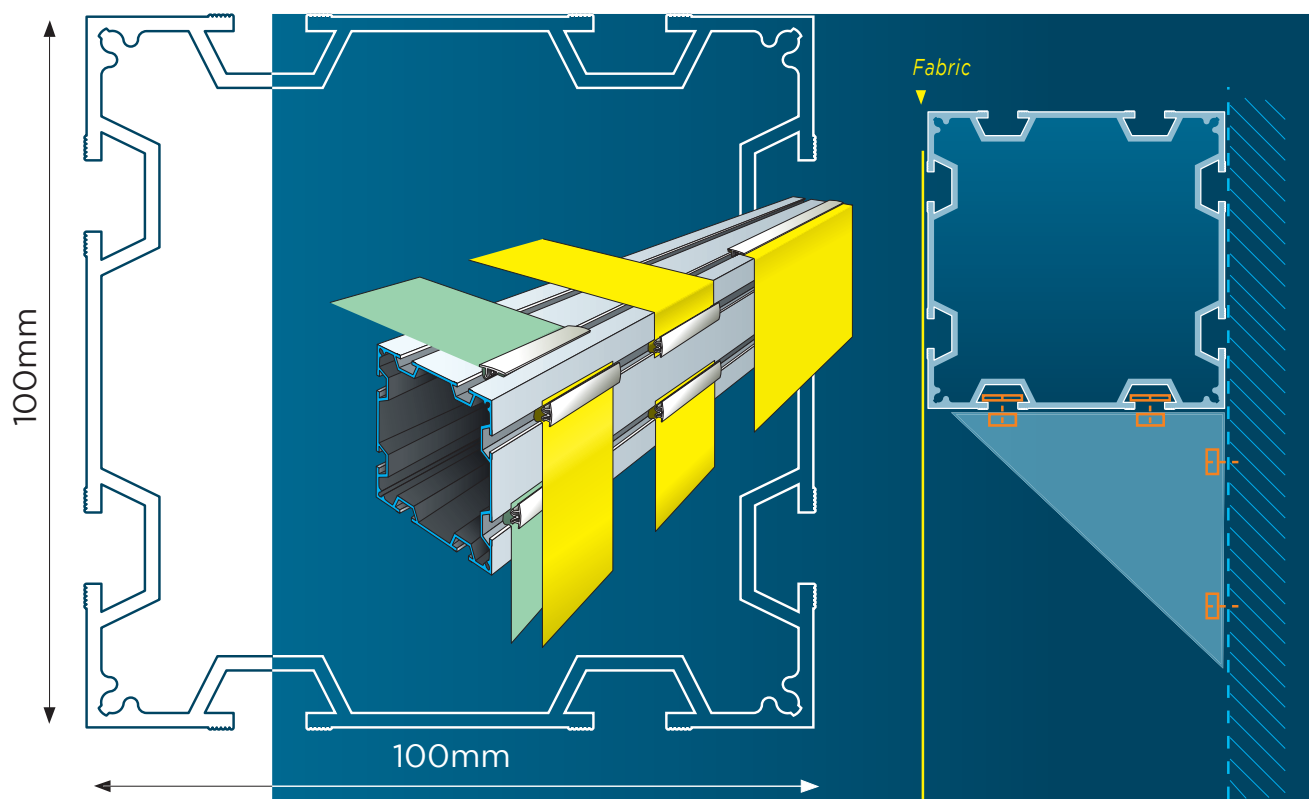


Technical characteristics of the fabric tensioning system

P100

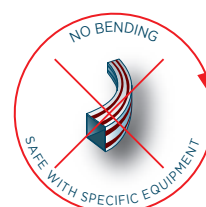
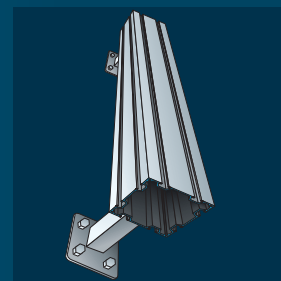
► Bearing frames, Structures, Stands...

- 8 channels : side or front tensioning.
- Possibility to stretch one fabric onto the other one
- Bearing profile : fitted directly onto the wall or with wall mounting brackets

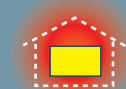


2 fitting possibilities:

- Flat onto a wall with special brackets.
- With a distance from the wall with adjustable wall-mounting brackets



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

FLAT ONTO A WALL
or
SELF-SUPPORTING
FRAMES



FORMAT:

**NO
LIMIT***

LENGTH:

**4,00m.
& 5,00m.**

Other length on request

**Except for self-supporting frames*

Examples of realizations:

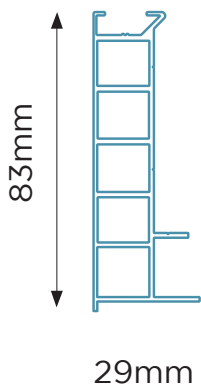


Technical characteristics of the fabric tensioning system

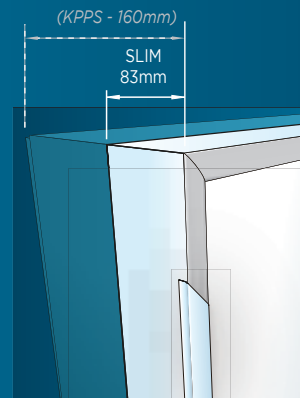
KPPS SLIM

► Fine lightbox - One-sided Front tensioning - Strong luminance

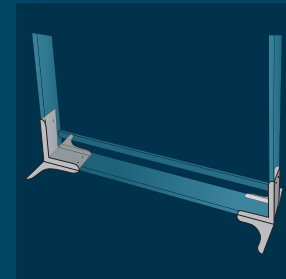
- An only one channel / front tensioning
- Possibility to use a moulding cover to hide the tension rod
- Easy and fast electric maintenance.



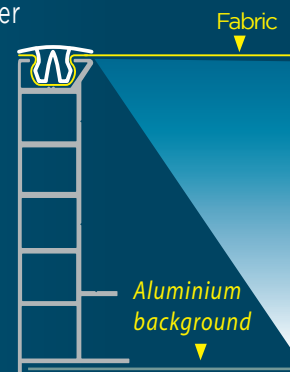
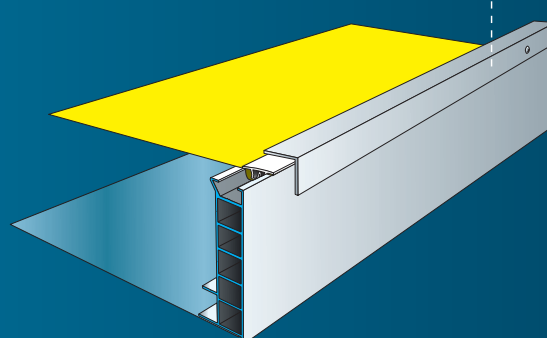
- Lightbox twice as fine as the standard Lightbox



Stand optional:



- Possibility to use an aluminium moulding cover to hide the tension rod.



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

MODULAR
CONSTRUCTION



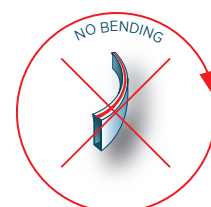
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LENGTH:

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& 7,00m.**

Other length on request

ISO 9001
BUREAU VERITAS
Certification



**Except for
self-supporting frames*

Examples of realizations:

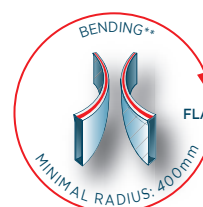
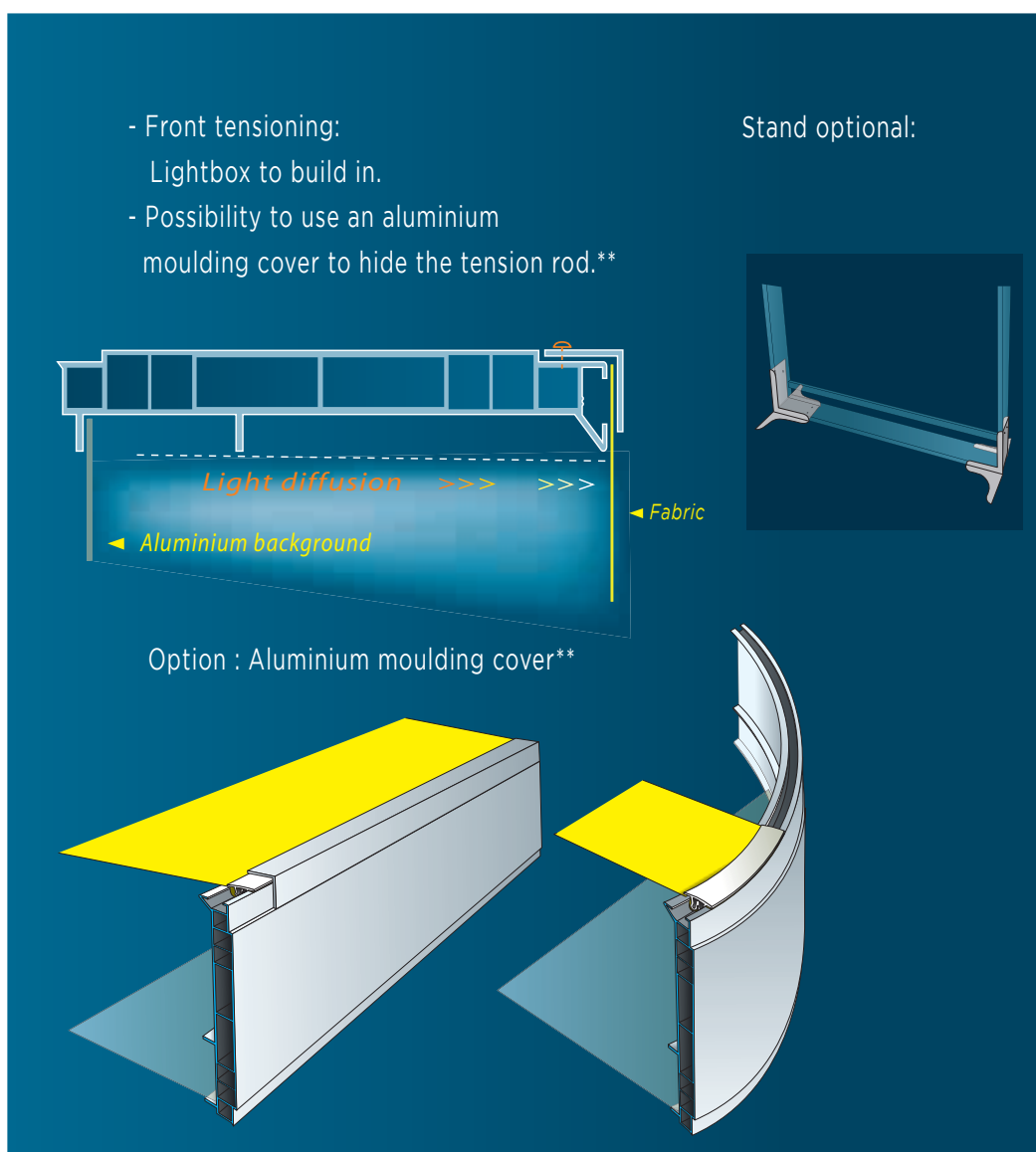
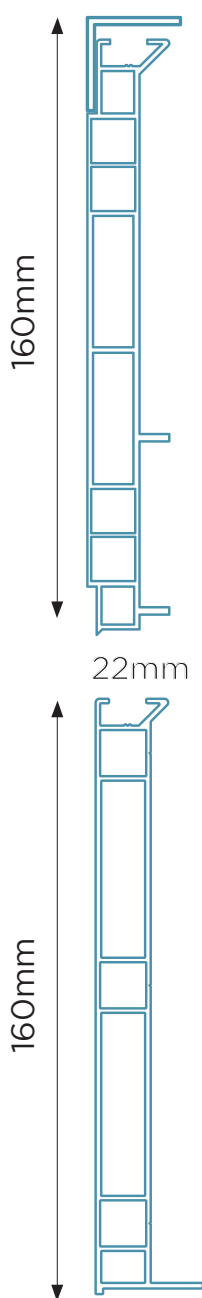


Technical characteristics of the fabric tensioning system

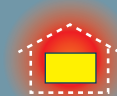
KPPS

► Lightboxes to build in illuminated walls One-sided - Front tensioning

- An only one channel / front tensioning
- Possibility to use a moulding cover to hide the tension rod
- - Easy and fast electric maintenance.



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

MODULAR
CONSTRUCTION



FORMAT:
Width maxi:
4,80 m.*
Length maxi:
NO LIMIT*

LENGTH:

**3,50m.
& 7,00m.**

Other length on request

*Except for
self-supporting frames

**With moulding cover:
impossible to bend the
moulding cover

Examples of realizations:



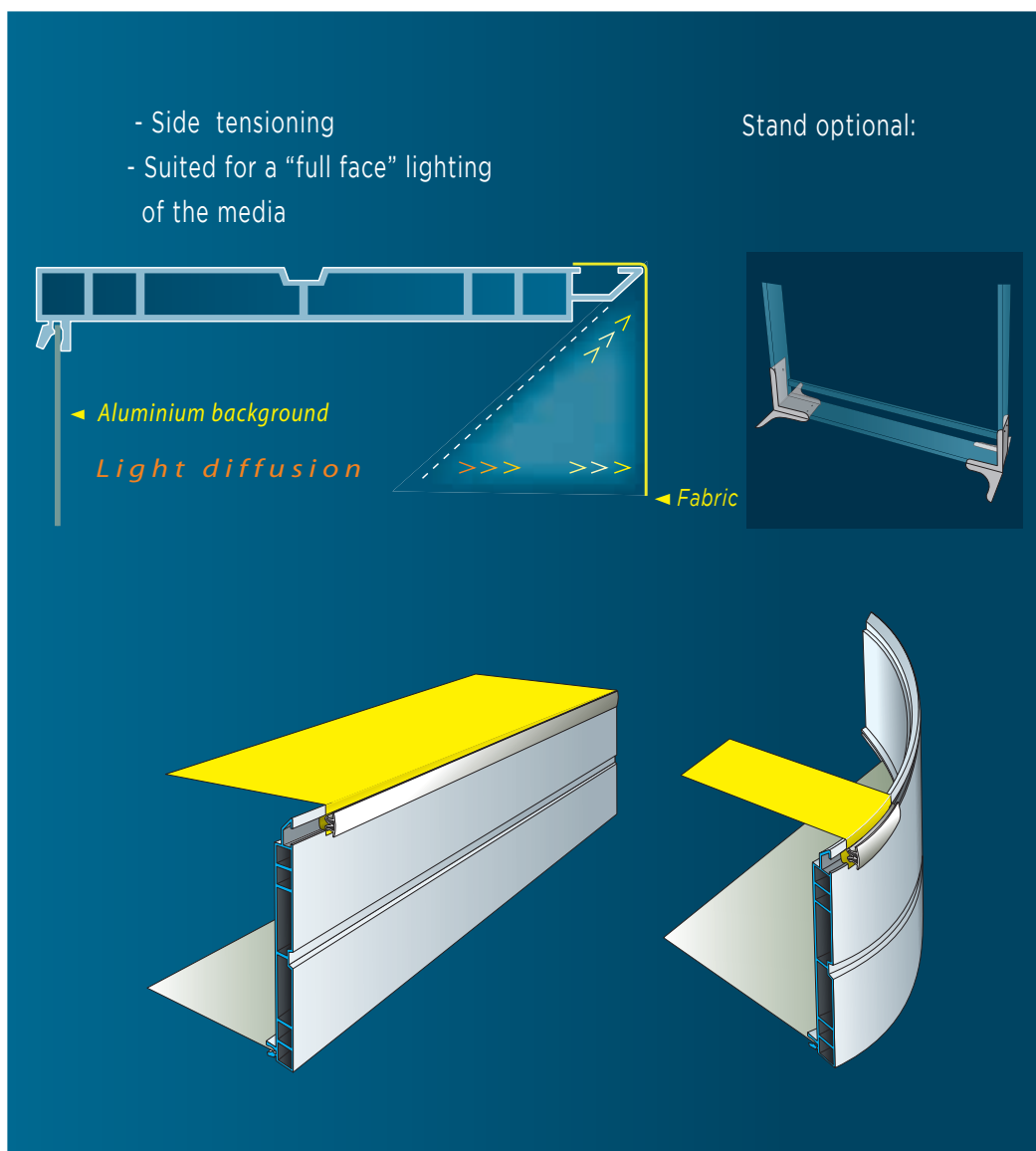
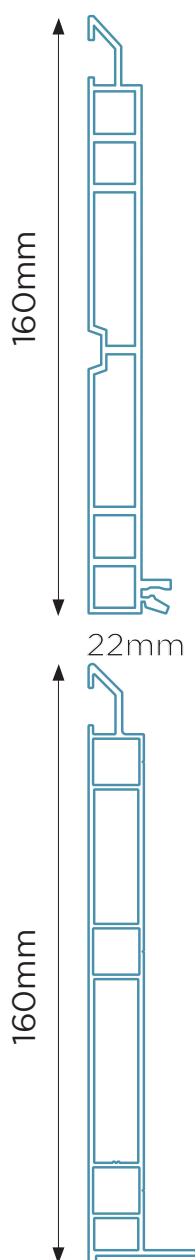
Technical characteristics of the fabric tensioning system

KPPS SF

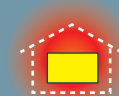
► One-sided lightboxes “Full face lighting”

- An only one channel /side tensioning.
- “Full-face” lighting
- Easy and fast electric maintenance

Fabric tensioning system
KPPS SF



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

MODULAR
CONSTRUCTION



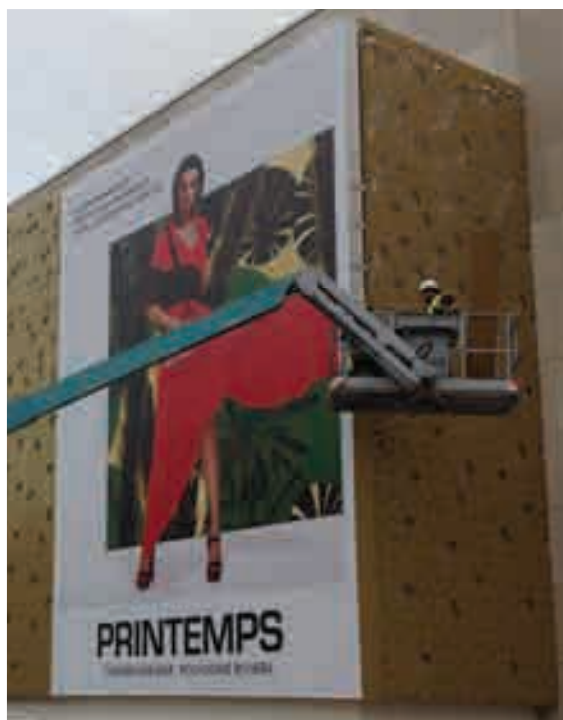
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Other length on request

*Except for
self-supporting frames

Examples of realizations:

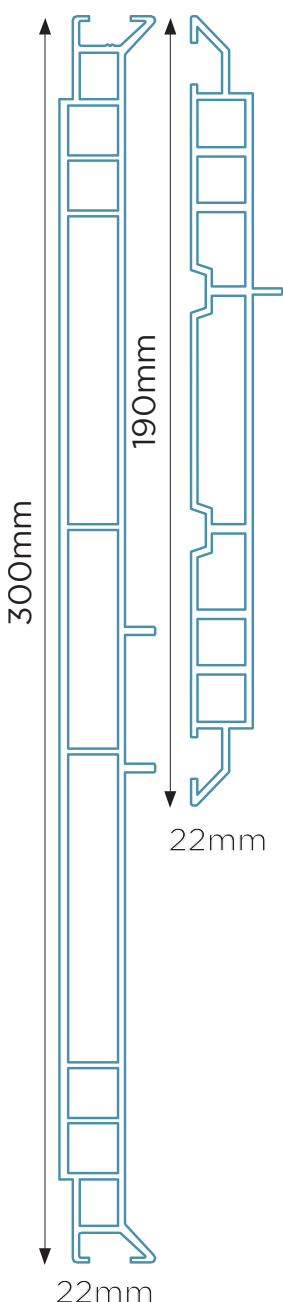


Technical characteristics of the fabric tensioning system

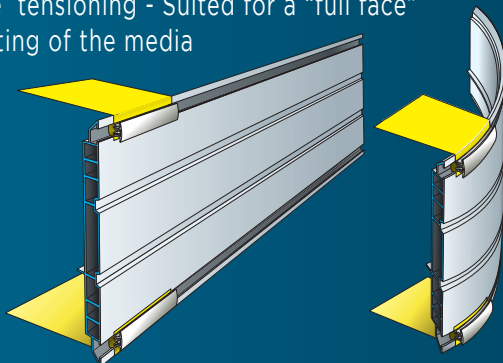
KPPS DF 190 or 300

- Modular illuminated signs
190 = side tensioning - 300 = Front tensioning
- KPPS DF 190 : - Can be fitted with wall-mounting brackets or on stands.
- "Full face" lighting on both sides.
- KPPS DF 300 : Fitted directly onto the wall or with wall mounting brackets
- Easy and fast electric maintenance.

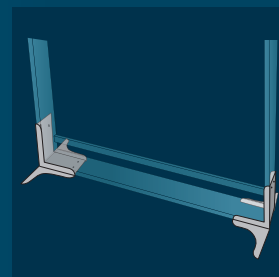
Fabric tensioning system
KPPS DF



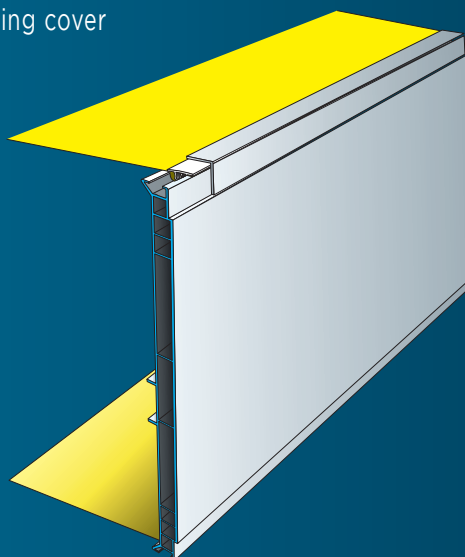
- KPPS 190 :
Side tensioning - Suited for a "full face"
lighting of the media



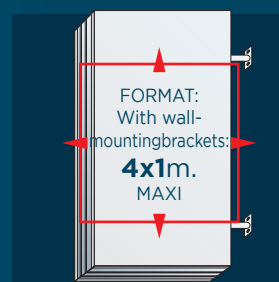
With 190:
Stand optional



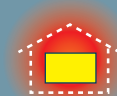
- KPPS 300 :
Front tensioning - Optional aluminium
moulding cover



With 190:
on gallowses



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

MODULAR
CONSTRUCTION

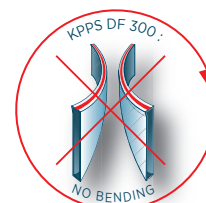


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of length

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& 7,00m.
Other length on request

ISO 9001
BUREAU VERITAS
Certification



*Except for
self-supporting frames

Examples of realizations:

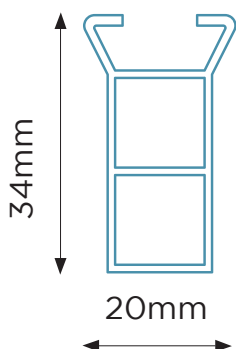


Technical characteristics of the fabric tensioning system

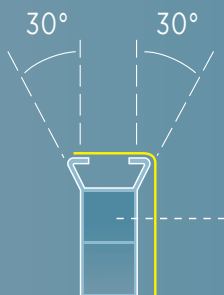
KP

► Hanging frames or frames to fix

- An only one channel / side tensioning.
- Frames with or without stiffeners (depending on the format)
- Hanging ceiling panels

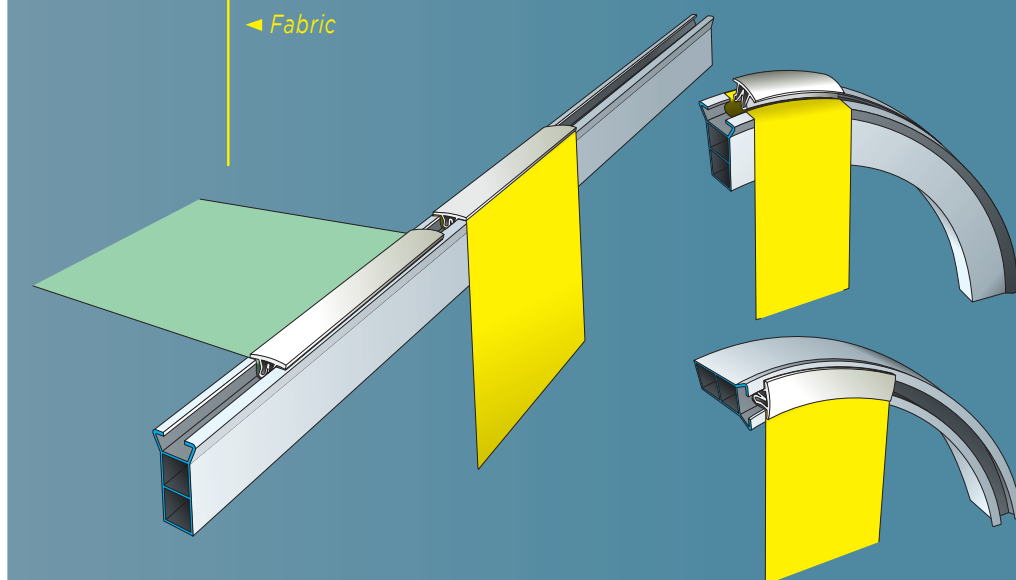
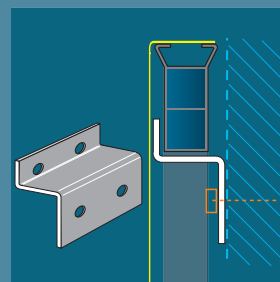


- Hanging frames or frames to fix.
- Channel in the middle of the profile

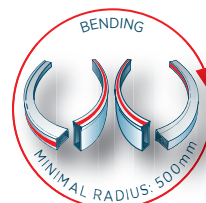


← Fabric

Option:
Fast to mount onto the wall thanks to P-Fix



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Certification



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

FLAT ONTO A WALL
or
SELF-SUPPORTING
FRAMES



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NO LIMIT*
of length

LENGTH:

3,50 m.
& **7,00 m.**

Other length on request

Examples of realizations:

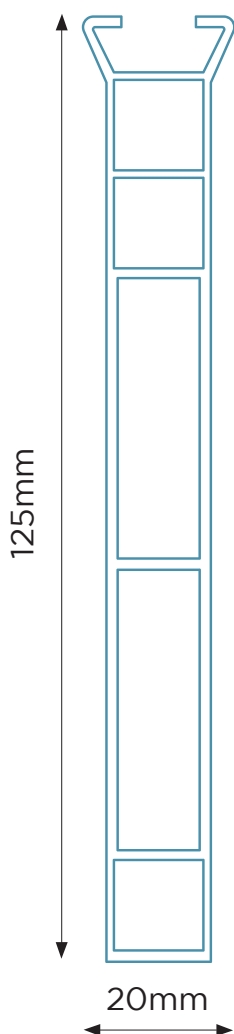


Technical characteristics of the fabric tensioning system

KPP

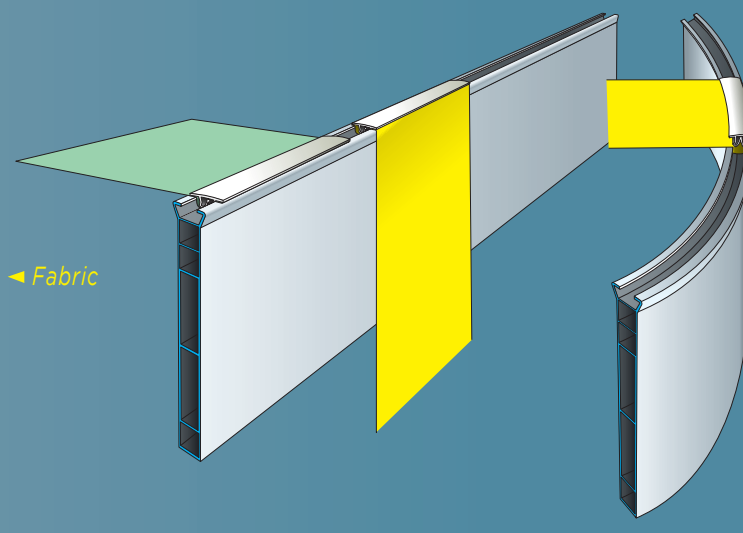
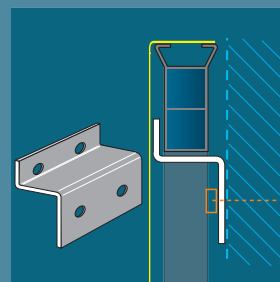
► Hanging frames or frames to fix Backlit frames

- An only one channel / side tensioning.
- Frames with or without stiffeners (depending on the format)
- Backlit frames with opaque banner

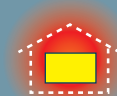


- Hanging frames or frames to fix.
- Channel in the middle of the profile
- Suited for the construction of non-illuminated sign Backlit frames with opaque banner.

Option:
Fast to mount onto the wall thanks to P-Fix



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

SELF-SUPPORTING
FRAMES

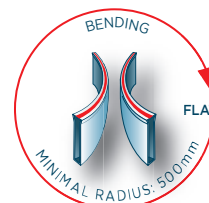


FORMAT:
Width maxi:
3,50 m.
NO LIMIT
of length

LENGTH:

3,50 m.
& **7,00 m.**
Other on request

ISO 9001
BUREAU VERITAS
Certification



Examples of realizations:

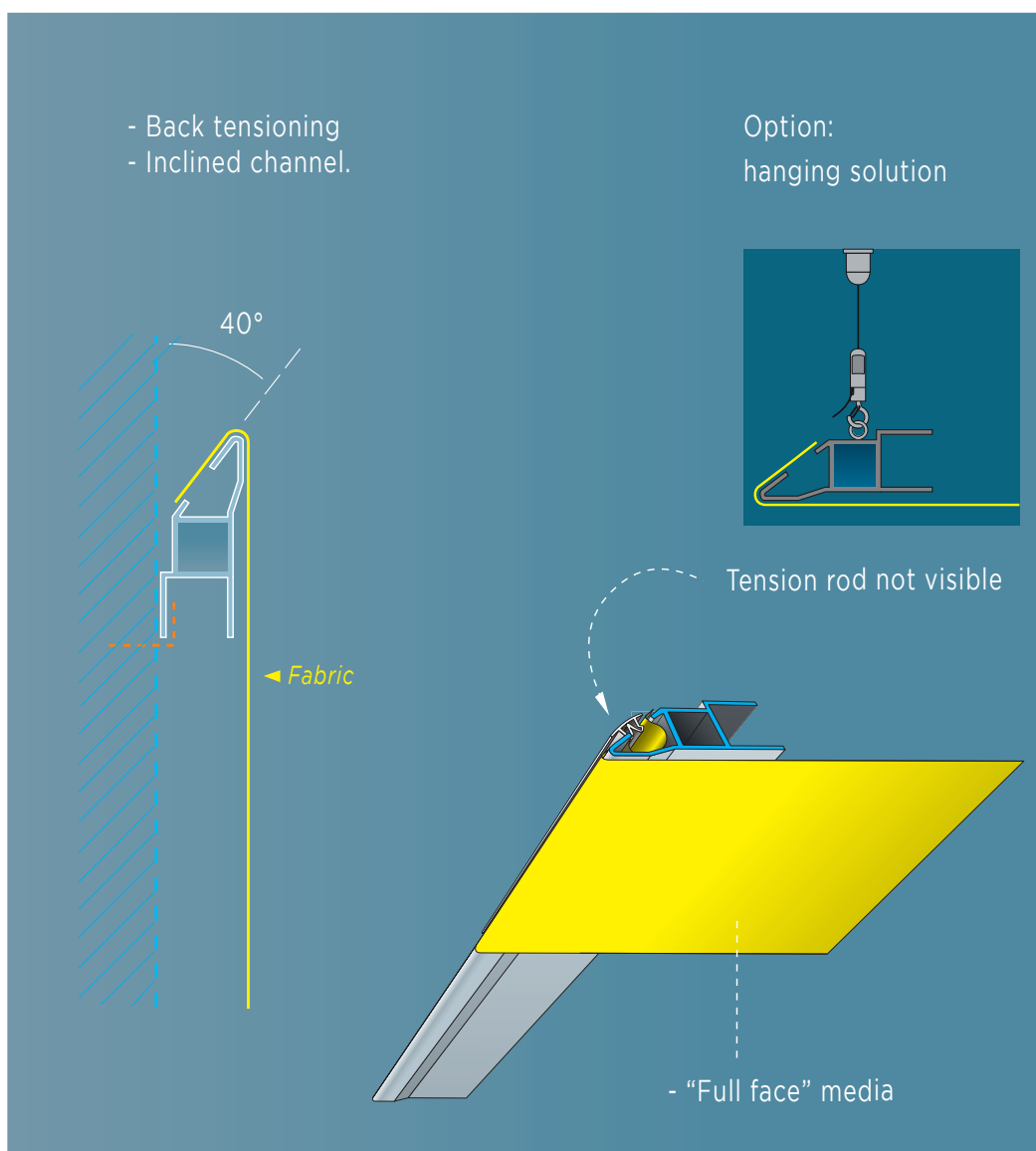
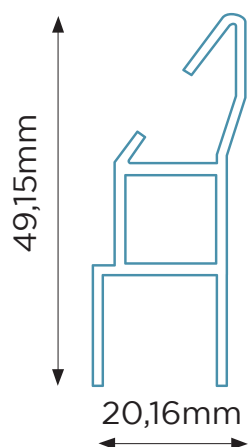


Technical characteristics of the fabric tensioning system

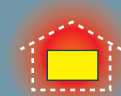
KL+

► Special frames : Picture frames, panels...

- An only one channel / back tensioning (tension rod not visible)
- Removable frames with or without stiffeners (depending on the format)
- Hanging ceiling panels



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

SELF-SUPPORTING
FRAMES

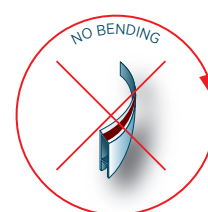


FORMAT:
Width maxi:
2,50 m.
Length maxi:
1,50 m.

LENGTH:

3,50m.
& **7,00m.**

Other length on request



Examples of realizations:

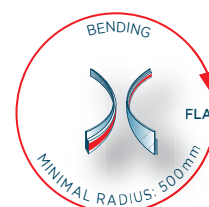
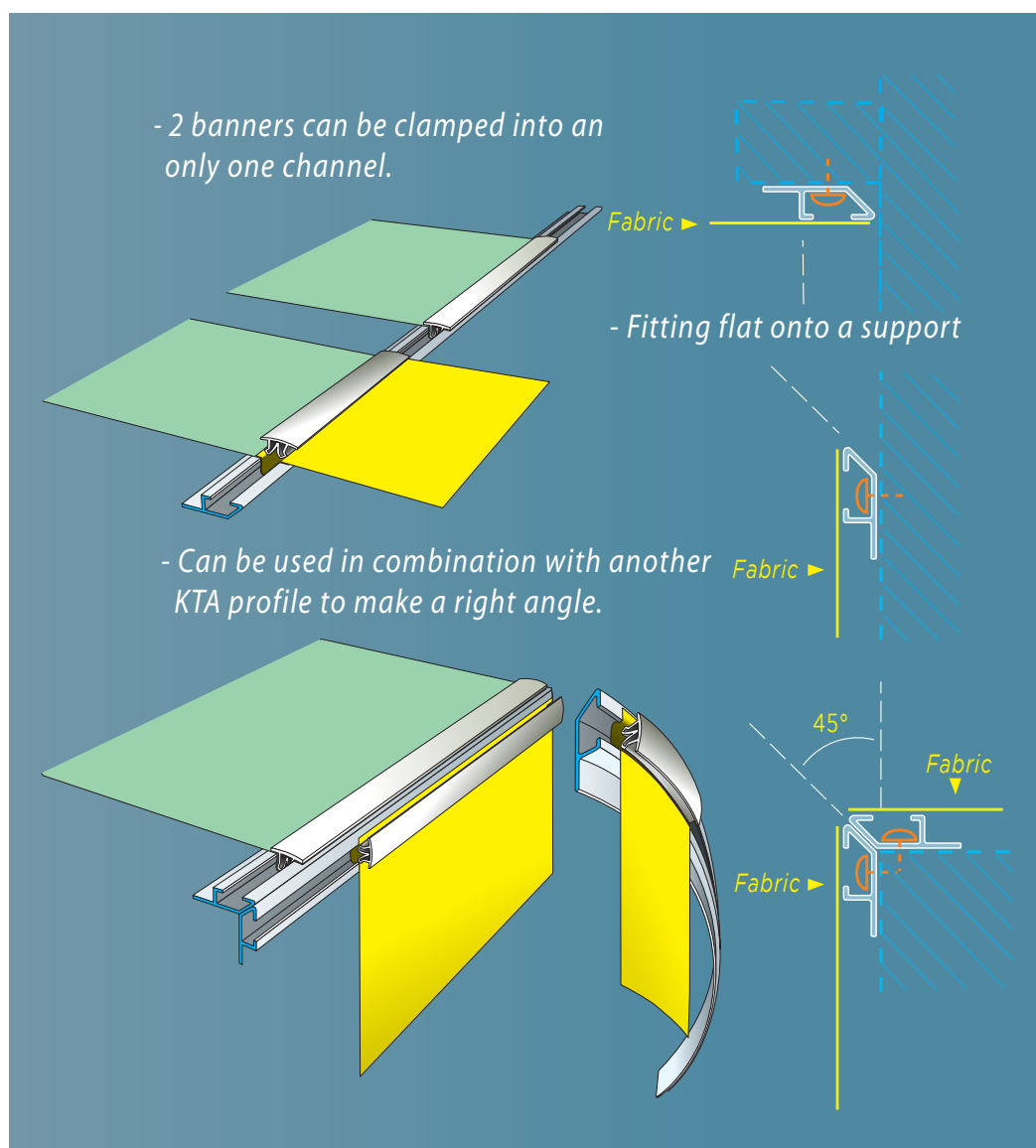


Technical characteristics of the fabric tensioning system

KTA

► Tension walls and every flat or curved supports

- An only one channel / front tensioning.
- Possibility to clamp 2 banners into an only one channel.
- Can be fitted directly onto a wall or onto an existing structure.



AREA OF USE:



AREA OF USE:



FORMAT:
Walls:
NO LIMIT*
Ceilings:
20-25m²
MAXI

LENGTH:

3,50m.

Other length on request

* On regular surfaces

Examples of realizations:

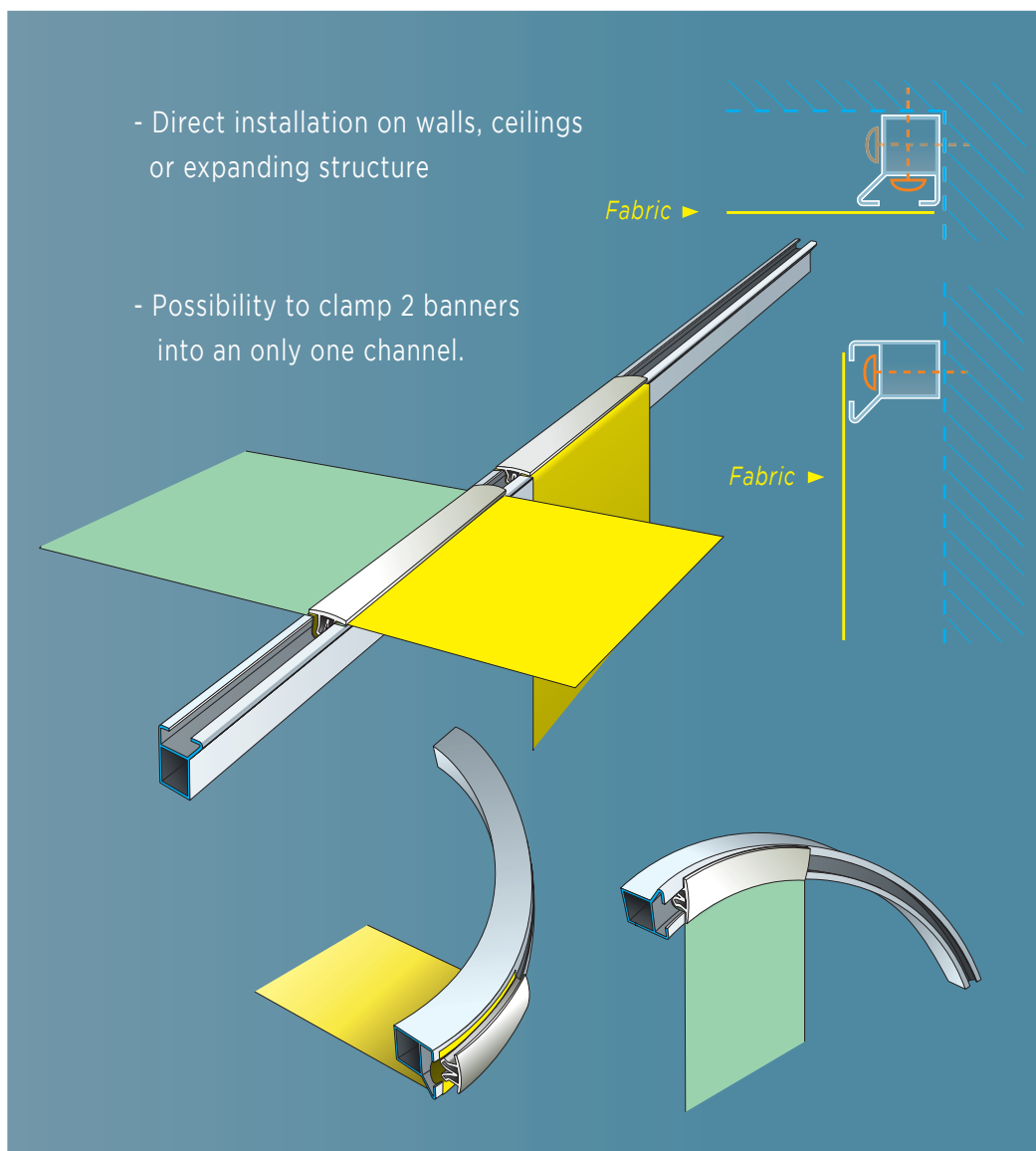
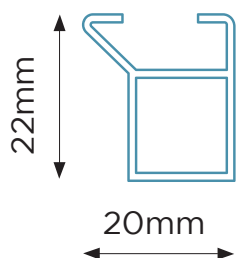


Technical characteristics of the fabric tensioning system

KTN

► Tension walls and Tension ceilings or installation on the expanding structure

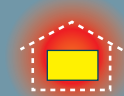
- An only one channel / side or front tensioning.
- Possibility to clamp 2 banners into an only one channel.
- Can be fitted directly onto a wall or onto an existing structure.



Fabric tensioning system

KTN

AREA OF USE:



INDOOR

AREA OF USE:



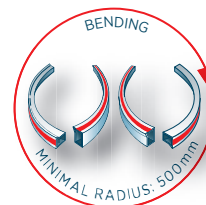
OUTDOOR

FORMAT:
According to
expanding frame
Ceilings:
20-25m²
MAXI

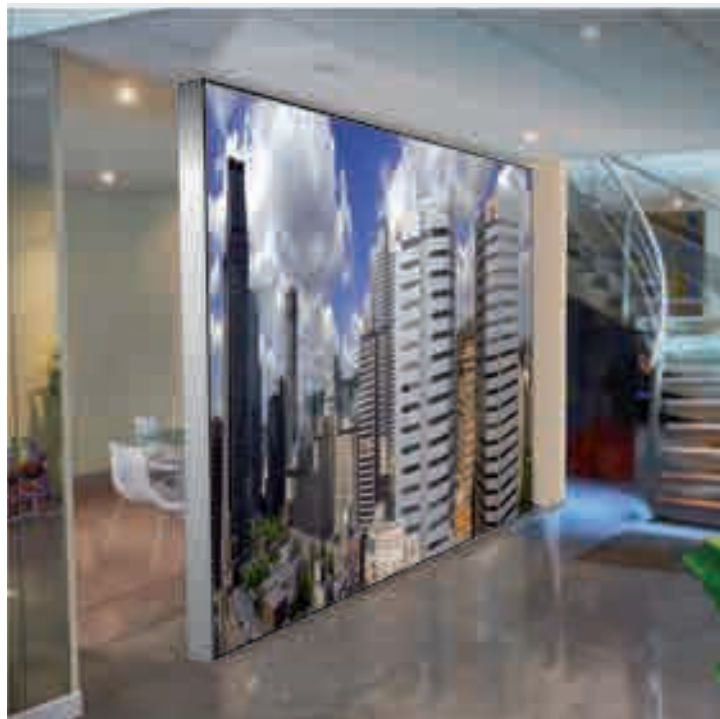
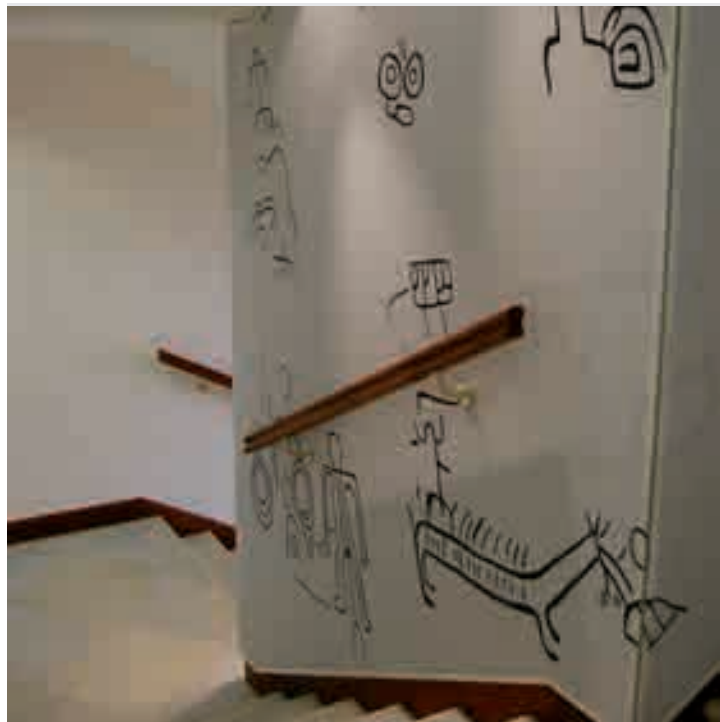
LENGTH:

3,50m.

Other length on request



Examples of realizations:

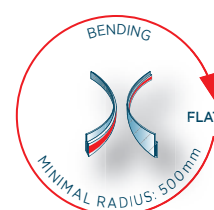
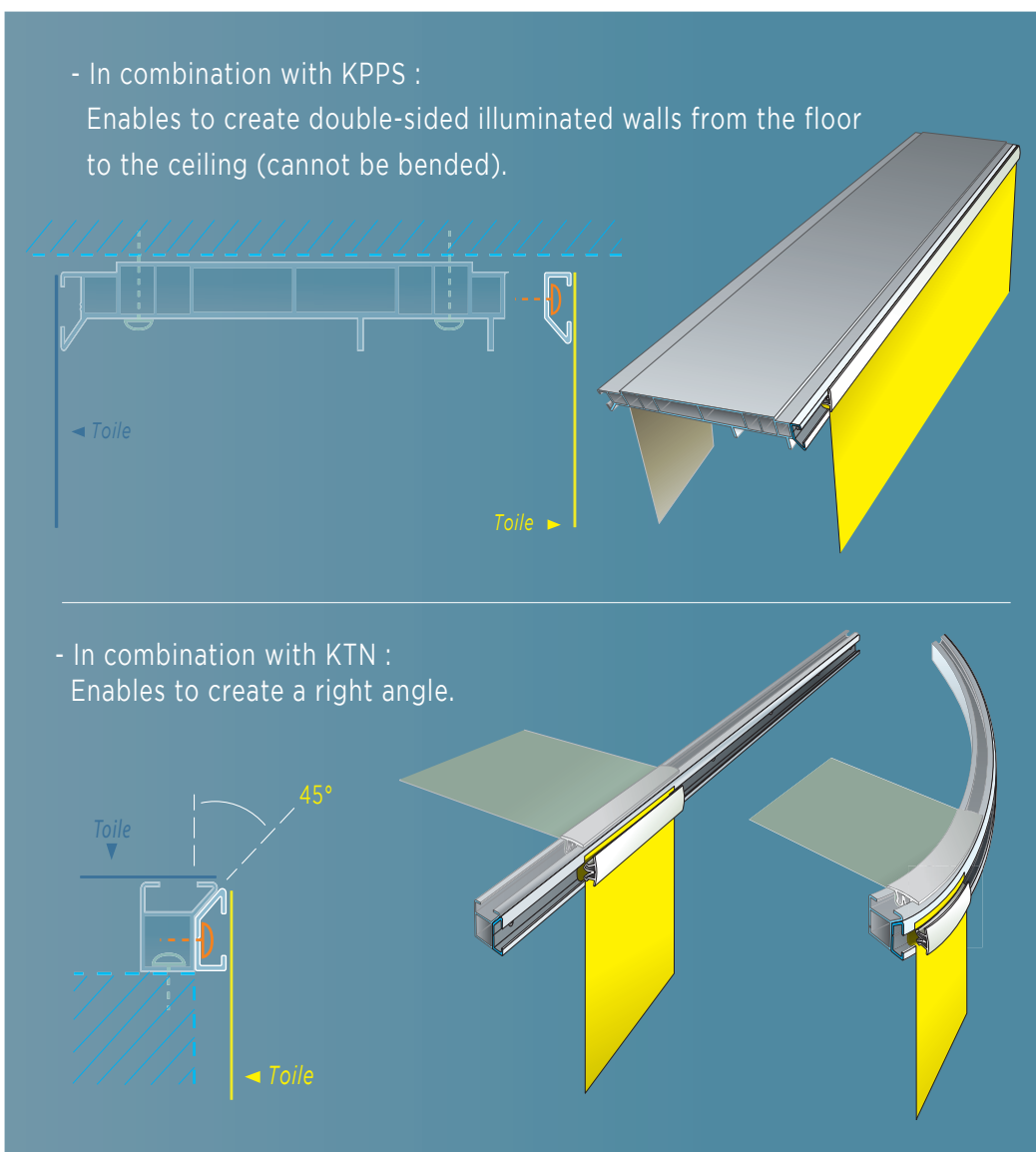


Technical characteristics of the fabric tensioning system

C

► To use in combination with KTN and KPPS

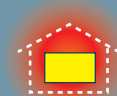
- An only one channel / side or front tensioning.
- KTN to create right angles.
- KPPS to create double-sided illuminated walls from the floor to the ceiling.



Fabric tensioning system



AREA OF USE:



INDOOR

AREA OF USE:



OUTDOOR

FORMAT:
Depending
on the
bearing profile

LENGTH:

3,50m.

Other length on request

Extract from report CETIM

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:

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

2 - Tests performed:

Front tensioning:

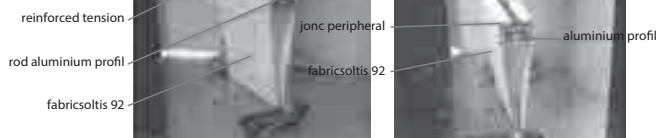
Side tensioning:

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 length of the fabric	Last load * daN	Resistance daN/m
1	2 x 25 cm	490	980
2		550	1.100
3		550	1.100
4		350	700
5		480	960
6	2 x 25 cm	650	1.300
7		660	1.320
8		680	1.360

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

Metallurgy Technician

P.O. *Michel Celle*
Michel CELLE

Metallurgy Department Manager

Bernard Gagnaire
Bernard GAGNAIRE



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

► Tools required:

Cutter blade,
cutting pliers,
no rebound
rubber hammer required



► Different clamping bars:

- **Outdoor and indoor:** JR – Reinforced tension strip.
- **Indoor use only:** JN – standard tension strip and JF thin tension strip (suited for very thin materials like textiles).



► Installation instructions:

- 1-Place the full length tension strip facing the profile's channel
- 2-Clamp the fabric by first of all shoving the bar from the exterior edge to the inside.
- 3-Hit the clamping bar with the rubber hammer into the profile's channel. Doing this you stretch the fabric.



Recommendations for installation in cold weather:



If possible keep the tension strips at ambient temperature and this so long as you can (in your van for instance). They can become fragile and can break easily under 10°.

A PREPARATION :

A1 - Preparation of clamping bars sections

A2 - The profile-sections are remnant pieces with a length of approx. 10 to 30cm according to the format banner to stretch.

Specifications of the fabric (see recommendations on the reverse side):

- The fabric needs to be approximately 10 to 20 cm minimum wider than the frame on each side.
- To install a printed fabric, add 5 to 10cms of print bleed to the required finished size of the graphic.

► **Recommendations:** Add fine alignment marks along the graphic to assist correct positioning during installation.

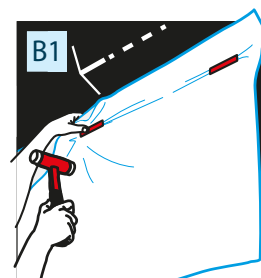
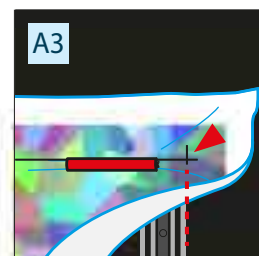
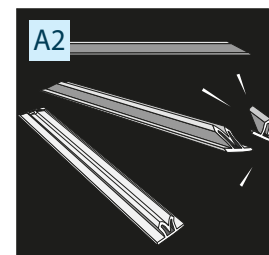
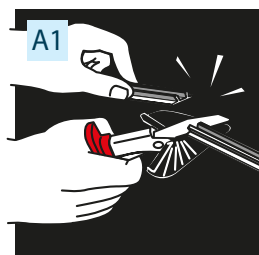
B ALIGNING THE FABRIC:

B1 Insert off cut clamping bar pieces along the upper side first for positioning and pre tensioning and on all sides then. Start from the right side for a right-handed fitter or from the left side for a left-handed fitter.

B2 Position a off cut clamping bar piece on the fabric just under alignment mark facing to the profile's channel at approx 10cm from the bordure and every 50 to 100 cm.

► **Method:** For a nice fitting, stretch the fabric

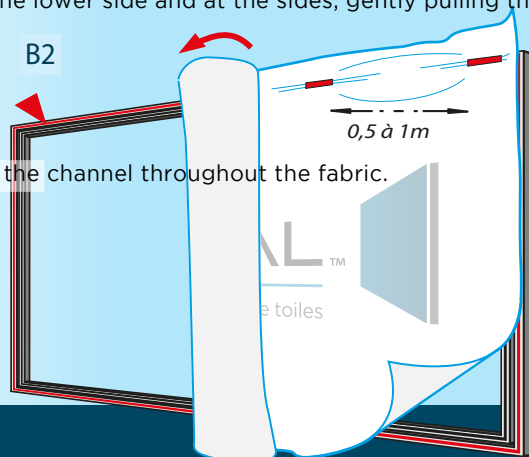
B3 between each clamping sections. Repeat this step at the lower side and at the sides, gently pulling the fabric.



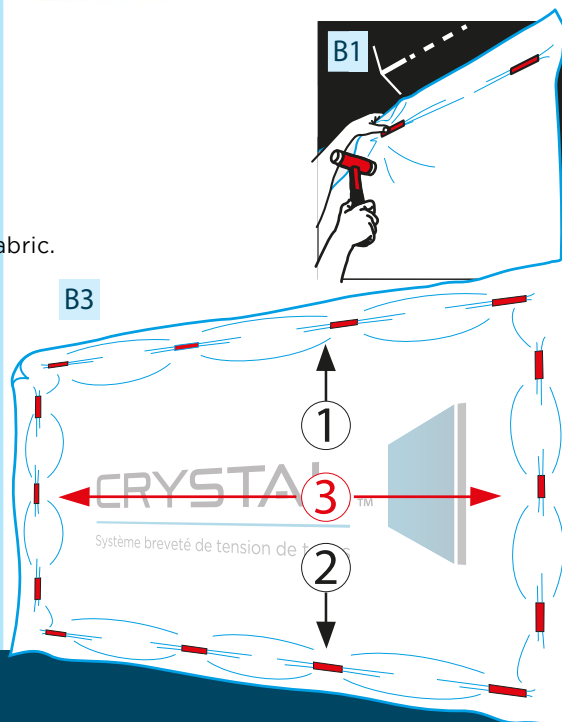
B2

0,5 à 1m

► You have to see the channel throughout the fabric.

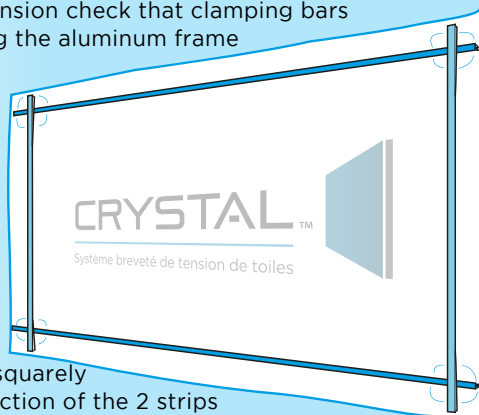


B3



C FABRIC TENSIONING:

- C1** - Insert a full length tension strip between off cut clamping bar pieces making it exceed from the corner.
- Remove then the pieces as you work along.
- C2**  *Tip: To lever out the pieces easily, use a piece of clamping bar as described in the picture.*
- C3** - Installation of the clamping bar :
o Insert the full length clamping bar along the top edge
o Hit flat and firmly with the rubber hammer gripping your hammer near the handle's end.
- C4**  *Method: To get the best tension, insert the clamping bar from the exterior edge to the inside until the final clamp.*
- C5** - For corners make clamping bars overlap about 10 centimeters
Always check the good insertion of the clamping bar!
Clamping: To secure the tension check that clamping bars are correctly inserted along the aluminum frame

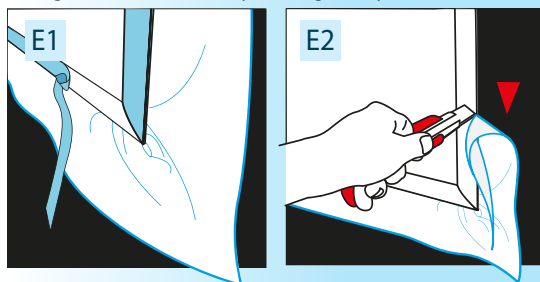


D PREPARATION OF CORNERS:

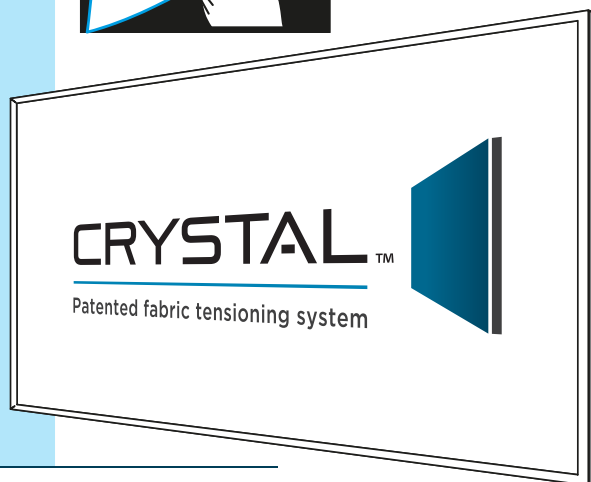
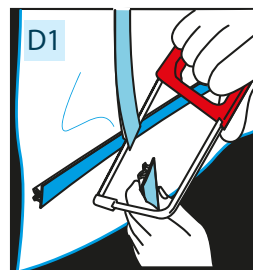
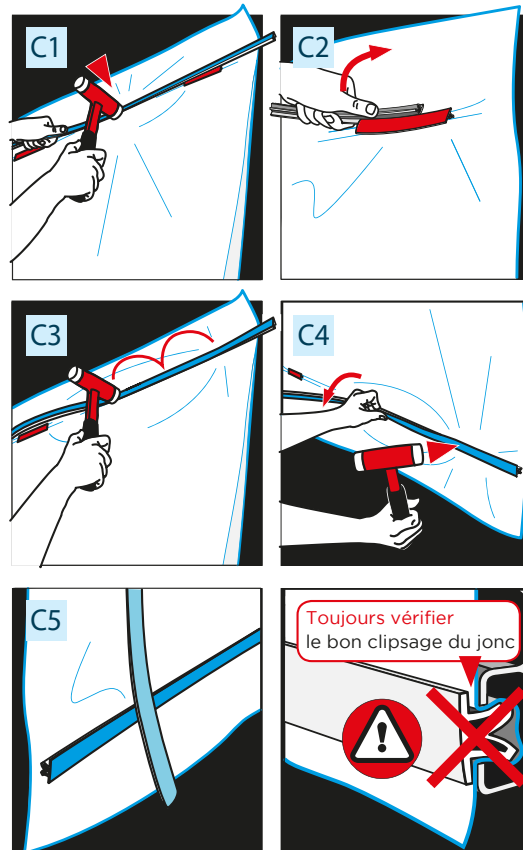
- D1** Cut the first clamping bar squarely with a metal saw at the junction of the 2 strips
After marking the second strip with the blade put the first one on the top and carry on with the cutting.
-  *Tip: To allow the good insertion of the fabric under the tension strip at the corner just cut back the tension strip tilting the saw as described on the picture. This leaves more space for excess material in the corner.*
- Hammer then the strips cut to insert them into the channel and make sure they are butted together in the corner.

E CUTTING OF THE FABRIC:

- E1** Remove the protective film from the tension strips and cut out any excess around the edge of the frame.
- E2** You just have to use a cutting knife to trim any excess material along the tension strip and get a perfect finishing.



Fabric specifications: _____



- **Crystal system is designed to stretch PVC coated fabrics (base cloth - high tenacity polyester). The mechanical characteristics of these fabrics should be good enough to insure an easy tensioning and to resist overtime to weather conditions.**

Required function:	Fabric characteristic:	Specification:	Risk if fabric out of spec:
Easy clamping	Weight	<650g/m ²	"Poor" clamping with too heavy fabric
Efficient clamping	Tear strength (warp and weft)	>250N/5cm	PVC rod cutting the fabric
Wind and temperature resistance	Tensile strength (warp and weft)	>2500N/5cm	Loose fabric

- Some fabrics with lower characteristics could be compatible with our Crystal tensioning system but require an Isermatic assessment on a case by case approach.
- **Printed Fabric:**
We recommend a minimum waiting time of 48h between printing and stretching especially with dark colors with high solvent's content.
Fabrics and PVC rods are stable from -30° to +70°, for dark colors use of mesh fabric is reducing the risk to exceed 70° when exposed to bright sun.
Light diffusion through backlit fabric could vary significantly from one supplier to another. As an example with an emitted luminous flow of 7000 lumens/square meter, the measured luminance with a non printed fabric may vary from 450 candelas/square meter up to 1200 candelas/square meter.



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