



WWW.LEDFRAMES.NL/EN

#### EFKA INTERNATIONAL BV

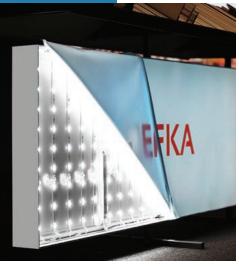
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# GET TO KNOW EFKA YOUR PARTNER IN FRAMES

EFKA is the worldwide supplier of aluminum textile, LED and panel frames for resellers in the print & sign industry. EFKA supplies single-sided, double-sided, 3D, outdoor and curved frames. The aluminum profiles are available in various designs and lengths. They are suitable for retail, public spaces, at home, in the office, in showrooms and at exhibitions. Together with you, EFKA works on a suitable answer to your question.







### THE ADVANTAGES OF

# **ALUMINUM FRAMES**



**ANY SIZE POSSIBLE** *Every frame are made to measure* 



- **CHANGEABLE PRINTS** *Change the textile print easily and*
- create a new look and feeling



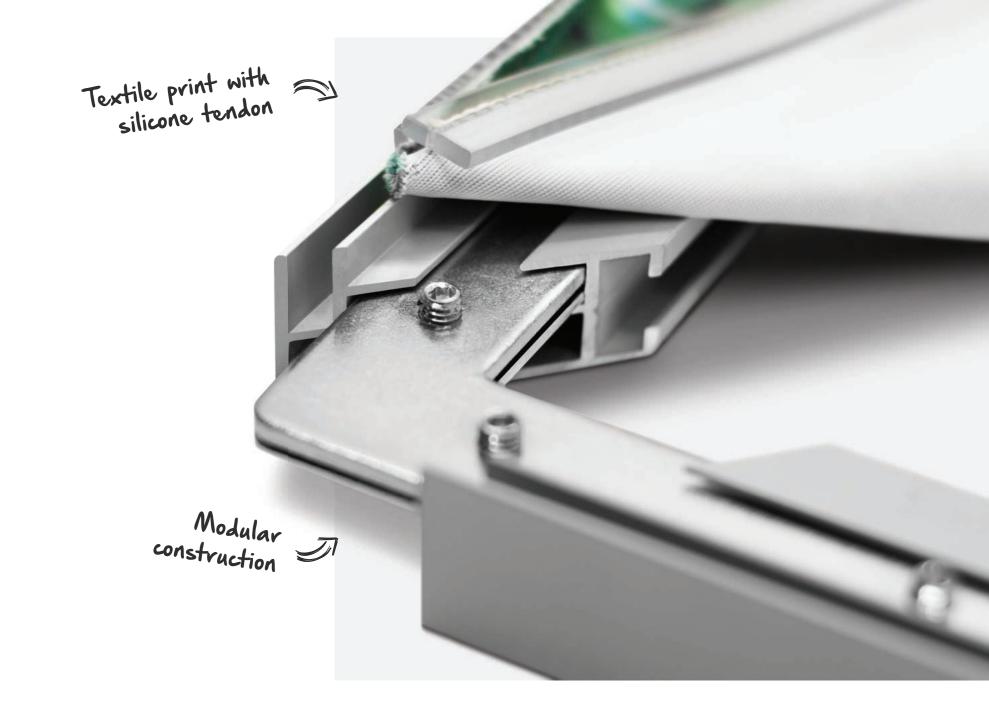
#### **COMPACT PACKED**

Frames are compactly packed so worldwide transportation is easy

$\sim$

#### **ALUMINUM IS 100% SUSTAINABLE**

Frames can be used several times and are 100% sustainable



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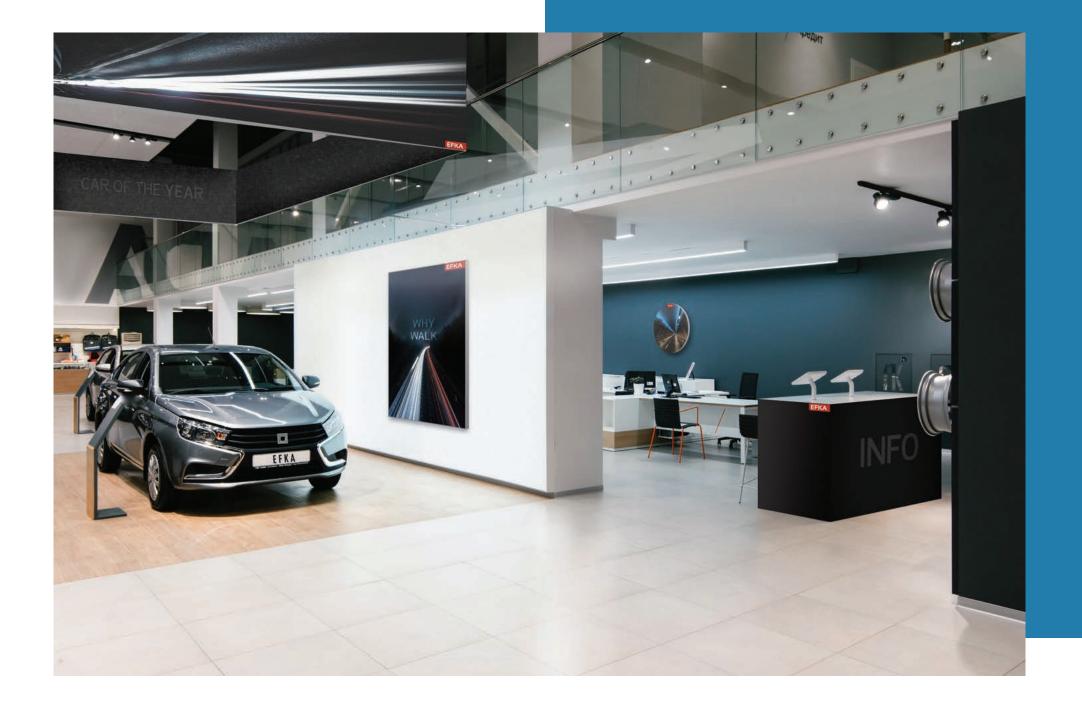
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# **TEXTILE FRAMES**

EFKA has a wide range of aluminum textile frames that allow you to switch textile prints quick and easily. An aluminum textile frame ensures a high attention and is durable. The frame could be mounted on a wall or ceiling, but it could also be used as freestanding frame using our baseplates.

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1.1



# TEXTILE FRAMES

EFKA supplies single-sided frames in various versions all with their own characteristic. The textile print is easy to replace, giving an interior or public area a new look.



**ECO 15** *Optional: Punchholes* 



**SIMPLE 19** Optional: Punchholes



**SLIM 25** *Wall mounting or hanging* 



**HEAVY 27** Wall mounting or hanging



**DECOR 27 XL 45** *Available in unique colours* 



**CABINET 30** Suitable as built-in frame







# MODULAR CONSTRUCTION MOUNTING OPTIONS

Thanks to the modular construction, it is easy to assemble the textile frame quick and easy. Connect the corners to each other and place the desired print in the frame. Due to a modular construction the frame is compact packed and easily shipped.

#### THREE OPTIONS FOR MOUNTING

- Wall mounting
- Hanging
- Built-in frame



CONNECT THE CORNERS
 Put the two different locksets together. Install the
 locksets in the appropriate groove and attach the
 miter cut lengths together.



**EXTEND THE FRAME** - *OPTIONAL* Lengths above 4000mm are divided and delivered in two or several parts. They could be easily connected with the corresponding extension set.



#### 2. PLACE THE FRAME

Attach the frame by drilling it to the wall or install wall mounts. Let the wall mount support the frame. Suspension from the ceiling is also an option.



**STRENGTHEN FRAME** - *OPTIONAL* To ensure stability of large sizes aluminum frames, stabilizers are mounted inside the frame to act like internal support beams.



### **3. ATTACH THE TEXTILE PRINT** First attach the silicone tendon in the corners of the

groove. Then press the print into the rest of the groove.

See chapter 4.1 for large sizes



# OPTION 1 WALL MOUNTING BY DRILLING

Mount the textile frame on the wall by directly drilling the profile every 30 cm. To make installation easier, the frame could be delivered pre-drilled. EFKA calls them punch holes. The pre-drilled frame will be fastened even more quickly on the wall.





# WALL MOUNTING BY USING WALL MOUNTS

First mount the appropriate wall mounts to the wall. Then lift the entire textile frame over the wall mounts and let it rest on the correct groove. This method is not recommended for the **Eco 15** and **Simple 19** if the frame is longer than 200 cm.

See page 134 for all wallmounts





# HANGING BY USING A CEILING MOUNT

The **Slim 25** and **Heavy 27** have the possibility to be suspended from the ceiling. Thanks to the ceiling mounts there are suspension eyes at the top of the frame. So all suspension options are possible.

The **Slim 25** & **Heavy 27** can be suspended by installing separately ordered ceiling mounts.

See page 135 for all ceiling mounts



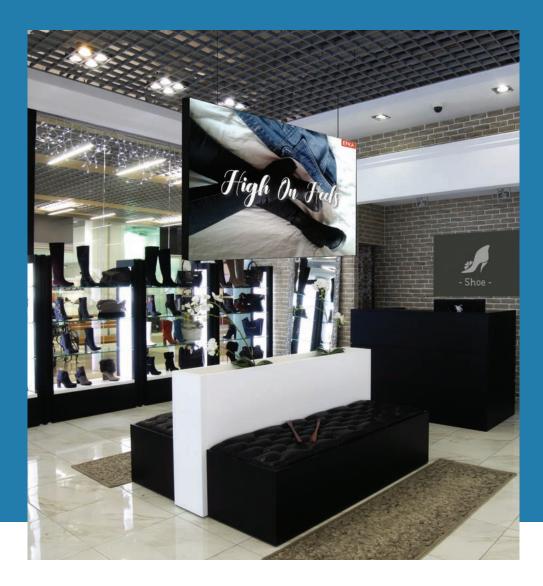


# OPTION 4 BUILT-IN TEXTILE FRAME

The **Cabinet 30** is a special designed profile that is suitable for different built-in installation solutions. By fitting the frame on the inside of an aperture, the whole area could be covered by a textile print.

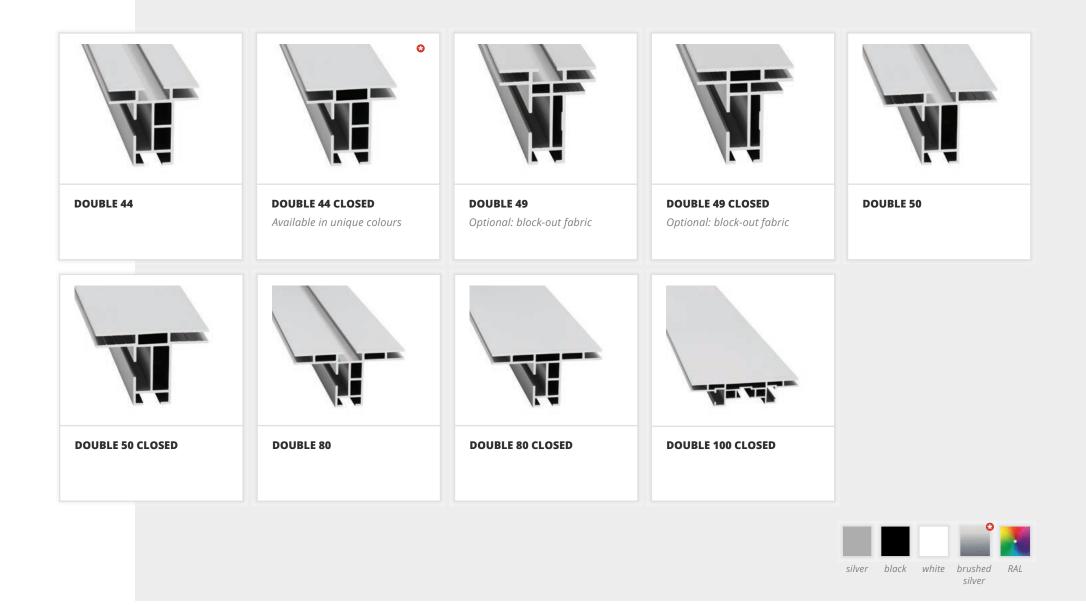






# TEXTILE FRAMES **DOUBLE-SIDED**

The double-sided textile frame could be used as freestanding or hanging frame. Create eye-catching displays in stores and showrooms or attractive room dividers that are perfect in any office. Make unique banners for exhibitions or other events.





# MOUNTING MODULAR CONSTRUCTION

Thanks to the modular construction, the assembly of a textile frame is quick and easy. By simply connecting the corners together and placing the textile print in the frame, the desired image is ready in no time. Due to the modular properties of the frame and compact packaging, transport of large sizes is possible.



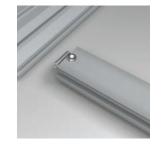
CONNECT THE CORNERS
 Put the two different locksets together. Install the
 locksets in the appropriate groove and attach the miter
 cut lengths together.



**EXTEND THE FRAME** - *OPTIONAL* Lengths above 4000mm are divided and delivered in two or several parts. They could be easily connected with the corresponding extension set.



2. PLACE THE PRINT First attach the silicone strip of the print to the corners, then press the print into the rest of the groove.



**STRENGTHEN FRAME** - *OPTIONAL* To ensure stability of large sizes aluminum frames, stabilizers are mounted inside the frame to act like internal support beams.



**3. ATTACH THE FRAME** Place the frame freestanding or hanging with the appropriate installation options.



**BLOCKOUT FABRIC** - *OPTIONAL* The blockout fabric blocks the lights, so both textile prints are visible.



# OPTION 1 HANGING OPTIONS

Create eye-catching hanging displays, banners that are perfect in any showroom or above an exhibition stand with the TÜV-certified hanging systems from EFKA. With the suspension cable and ceiling mount you can quickly and easily attach a double-sided textile frame.

See page 135 for all ceiling mounts







## OPTION 2 FREESTANDING OPTIONS

Create eye-catching displays in shops, create exhibition stands, banners or unique room dividers that are perfect in any office. Use the baseplates in showrooms or under an exhibition desk. The baseplates are divided into regular, side and unique. Varying in weight and length, each with their own characteristic, our baseplates have a modern look.

See page 132 for all baseplates





SIDE

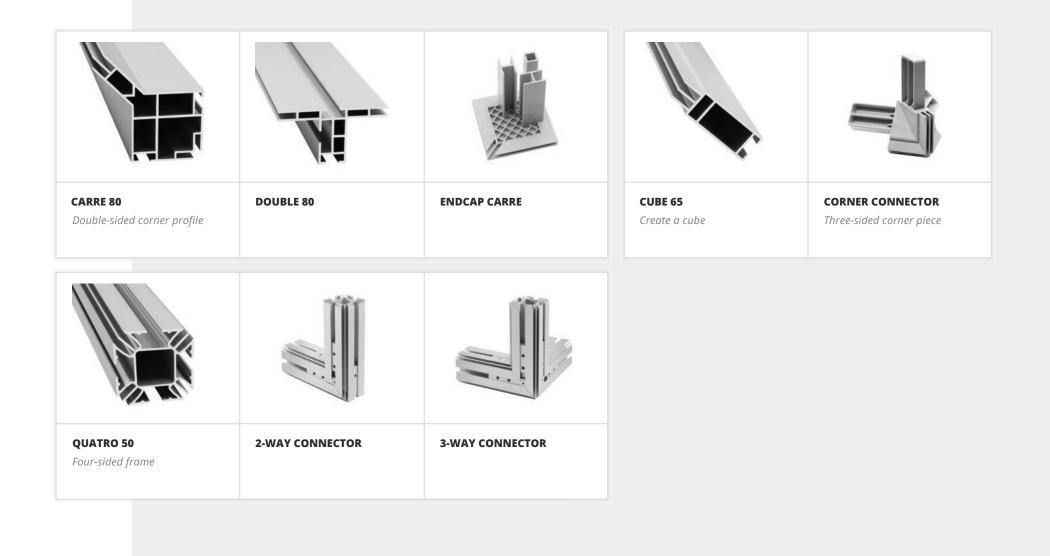


### UNIQUE



# TEXTILE FRAMES

With the modular 3D profiles you can create unique objects within an instant. The printed textile print is visible from several sides and could be used hanging and freestanding. This unique construction makes it possible to create complete exhibition stands.





## 3D FRAMES CARRE 80 HANGING & FREESTANDING

With the **Carre 80** you can design unique 3D banners and exhibition stands. The combination with the **Double 80** makes a solid and stable unit. Any size is possible by using stabilizers. With the help of ceiling mounts it is possible to attach the frame to the ceiling. This profile could also be used as a freestanding frame where baseplates aren't needed.



### **1. CONNECT THE CORNERS** Place the two different locksets together. Install the locksets in the appropriate groove and connect the corners.



2. PLACE THE ENDCAPS Finish the corners neatly by simply sliding the endcaps into the appropriate holes.



#### **3. PLACE THE PRINT**

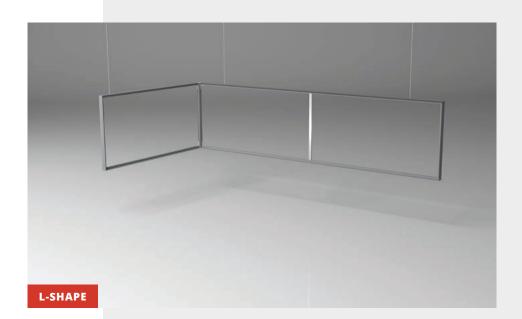
First attach the silicone strip of the print to the corners, then press the print into the rest of the groove.

### SHAPE FREESTANDING

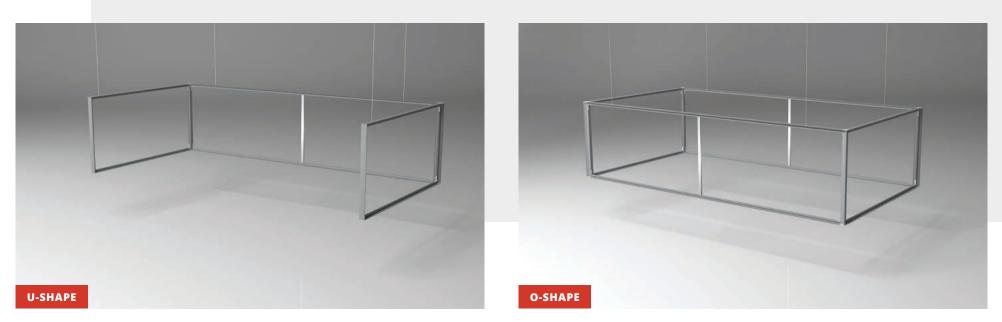








### SHAPE HANGING





# 3D FRAMES QUATRO 50 HANGING & FREESTANDING

The **Quatro 50** is designed to be build unique and stable exhibition stands. This profile is designed to attach textile prints on all sides. Due to its shape, the Quatro 50 profile is strong. The profile is quick and easy to assemble. With the help of ceiling mounts it is possible to use the frame as a hanging banner.



**1. 2-WAY CONNECTOR** Use the 2-way connector as a two-sided corner piece.



#### **1. 3-WAY CONNECTOR**

Use the 3-way connector as a three-sided corner piece.



**2. CONNECT THE PROFILE** Connect the corner piece with the Quatro 50 profile and tighten the screws with the supplied allen key.



#### **2. CONNECT THE PROFILE**

Connect the corner piece with the Quatro 50 profile and tighten the screws with the supplied allen key.



**3. PLACE THE PRINT** First attach the silicone strip of the print to the corners, then press the print into the rest of the groove.



#### **3. PLACE THE PRINT**

First attach the silicone strip of the print to the corners, then press the print into the rest of the groove.

#### SETUP FREESTANDING















# 3D FRAMES CUBE 65 HANGING & FREESTANDING

The **Cube 65** is specially designed to allow and show textile prints on all sides. The print fits seamlessly in the corners creating a perfect, sleek design.



#### 1. CUBE CORNER CONNECTOR

Use the cube corner connector as a three-sided

corner piece.



**2. CONNECT THE CORNERS** Connect the corner piece with the Cube 65.



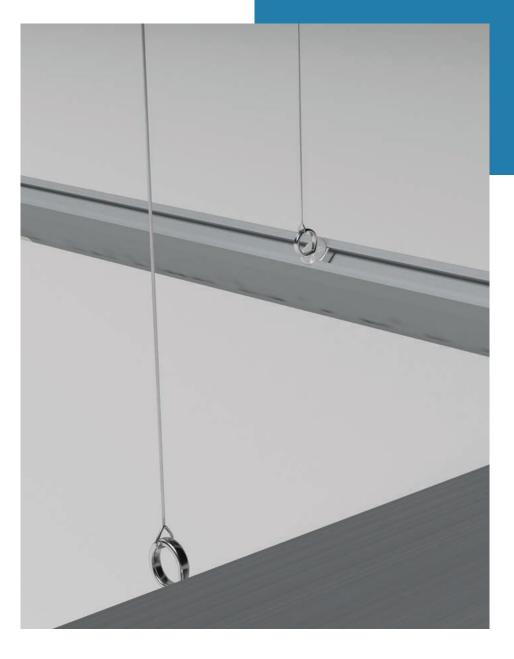
#### **3. PLACE THE PRINT**

First attach the silicone strip of the print to the corners,

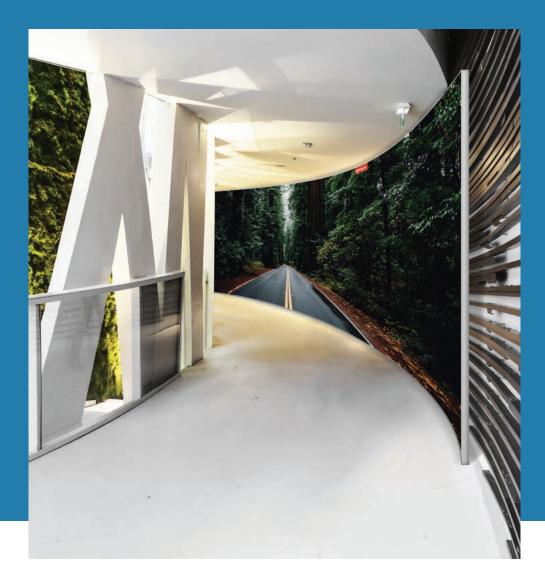
then press the print into the rest of the groove.











## TEXTILE FRAMES

Create impressive signage with curved frames. Make a statement and transform standard textile frames into exceptional objects. Use the curved frames as a unique hanging banner in the retail or as a spectacular curved back wall at exhibitions.



**SIMPLE 19** Radius > 400mm



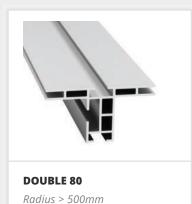
**HEAVY 27** Radius > 400mm



**DOUBLE 44** Radius > 500mm



**DOUBLE 44 CLOSED** *Radius > 500mm* 



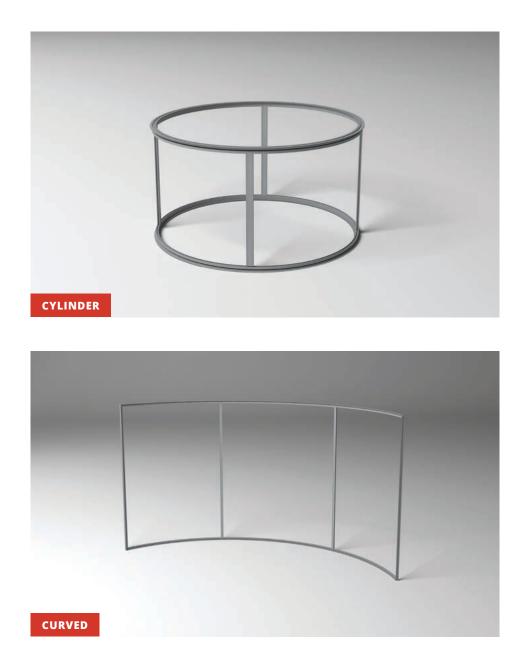


**DOUBLE 80 CLOSED** Radius > 500mm



# CURVED TEXTILE FRAME SINGLE- AND DOUBLE-SIDED CURVED

A curved frame on the wall, freestanding or hanging from the ceiling, differs from the standard straight shapes. It is possible to bend single and double-sided aluminum frames.







## TEXTILE FRAMES

The **outdoor** system is an aluminum frame in which a large format print can be clamped. The outdoor profile has been developed for applying water-repellent textile prints for outdoor advertising. This innovative single-sided outdoor frame consists of two profiles, namely the "clamping profile" and a "cover profile". Clips are attached between the 'clamping profile' and the 'covering profile', which means that the covering profile could be easily opened and closed.



#### **OUTDOOR 90**





#### MONTAGE MODULAR CONSTRUCTION

Thanks to the modular construction, the assembly of this textile frame is quick and easy. Place the textile print in the frame en connect the corner together. This modular frame is assembled in no time.



**1. CONNECT THE CORNERS**Put the two different locksets together. Install the
locksets in the appropriate groove and attach the miter
cut lengths together.



**4. CLOSE THE PROFILE** Close the covering profile so that the textile print is locked within the frame.



**2. PLACE THE FRAME** Attach the frame by drilling it to the wall.



**STRENGTHEN FRAME** - *OPTIONAL* To ensure stability of large sizes aluminum frames, stabilizers are mounted inside the frame to act like internal support beams.



#### **3. ATTACH THE TEXTILE PRINT**

Open the frame and attach the silicone tendon in the corners of the groove. Then press the print into the rest of the groove.

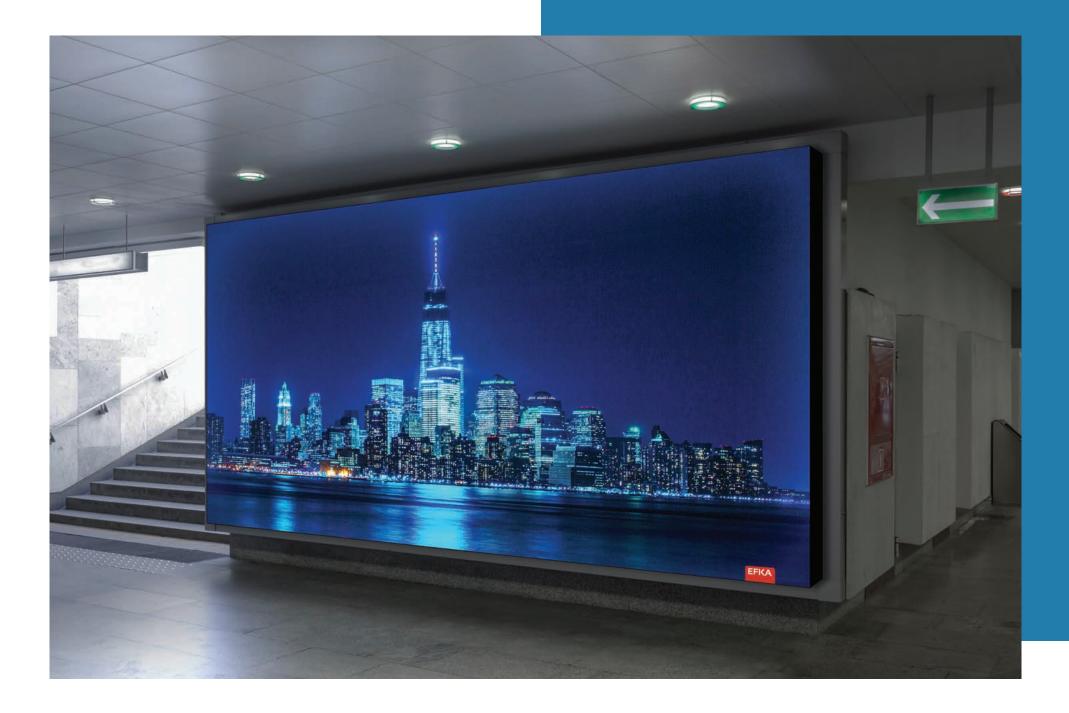


#### OUTDOOR WALL MOUNTING BY USING SCREWS

To attach the outdoor profile to a wall, it is possible to pierce the profile at multiple places. Then drill holes in the wall and fit the profile with plugs and screws.







## LED FRAMES

A LED frame is a textile frame with LED lighting. A LED frame gives a room more dimension, more atmosphere and a modern look. The frame is available in any size because various LED technologies have been developed.

 2.3
 LED TECHNIQUES
 54

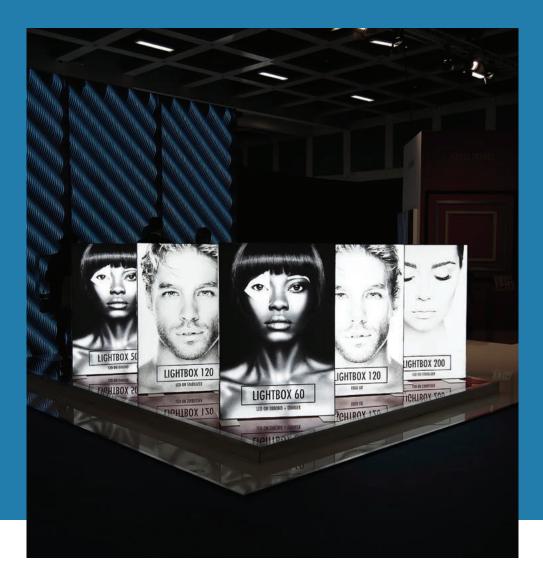
 2.2
 SINGLE-SIDED
 70

 2.3
 DOUBLE-SIDED
 74

 2.4
 3D
 80

 2.5
 POP-UP LEDBOX
 86

 2.6
 DYNAMIC 3D
 90



## VARIOUS LED TECHNIQUES

EFKA has developed various LED techniques. Depending on your wishes, there is always an LED frame that meets your needs. Let your message stand out with one of the offered LED techniques.

# LED ON DIBOND

#### EFKA THE SPECIALIST IN LED FRAMES

Due to years of experience, EFKA has developed various LED techniques. EFKA guarantees custom-made solutions and a fast delivery.

**3 YEAR WARRANTY** 

**CE-MARKING** 

CUSTOM MADE







#### **EDGE-LIT**



#### EDGE-LIT LED TECHNOLOGY

*Edge-lit is pre-assembled and illuminates the textile print from the side.* 



#### **OPTIONAL: BLOCKOUT FABRIC**

Thanks to the use of a flexible reflective blockout fabric, there is a better light distribution.



#### **COMPACT TO TRANSPORT**

Thanks to the modular construction, the frames are compactly packaged for transport.

Official License





CONNECT THE CORNERS
 Put the two different locksets together. Install the
 locksets in the appropriate groove and attach the miter
 cut lengths together.



#### **4. PLACE THE FRAME** Attach the frame by drilling it to the wall or install wall mounts. Let the wall mount support the frame.

Suspension from the ceiling is also an option.



**2. CONNECT THE PLUGS** Put the pre-assembled LED-strips and drivers together.



#### **5. ATTACH THE TEXTILE PRINT** First attach the silicone tendon in the corners of the groove. Then press the print into the rest of the groove.



**3. PLACE BLOCKOUT FABRIC**- *OPTIONAL* Attach the blockout fabric into the inner groove. This fabric blocks the lights, so the textile prints is more visible.



**STRENGTHEN FRAME** - *OPTIONAL* To ensure stability of large sizes aluminum frames, stabilizers are mounted inside the frame to act like internal support beams.



#### **LED ON DIBOND**



#### LED MOUNTED ON DIBOND

The LEDs are pre-mounted on a dibond plate, whereby the textile print is illuminated from the rear.



#### PERFECT LIGHT DISTRIBUTION

The wide angle lenses guarantee and even light distribution.



#### **POSSIBLE TO DIM**

With the pre-installed dimmer it is possible to control the brightness by using a remote control.

#### **DALI** DALI READY

*It is an option to make this LED frame compatible with DALI systems.* 



**1. CONNECT THE PARTS** Place the extensionset in the designated groove and attach the dibond connector. Slide the parts together to connect the frame.



#### 4. ATTACH THE TEXTILE PRINT

First attach the silicone tendon in the corners of the groove. Then press the print into the rest of the groove.



2. CONNECT THE PLUGS

Put the pre-assembled LED-strips and drivers together.



#### **3. PLACE THE FRAME**

Attach the frame to the wall by drilling through the

dibond plate.



#### **LED ON STABILIZER**



#### LED MOUNTED ON STABILIZER

*This technique illuminates textile prints from the rear with LED mounted on stabilizers.* 



#### SUITABLE FOR LARGE FRAMES

LED on stabilizer is recommended for large sizes to ensure an even light distribution.



#### MODULAIR

Modular construction where LEDs are pre-assembled.



#### **POSSIBLE TO DIM**

With the pre-installed dimmer it is possible to control the light distribution by using a remote control.



CONNECT THE CORNERS
 Put the two different locksets together. Install the
 locksets in the appropriate groove and attach the miter
 cut lengths together.



#### **4. PLACE THE FRAME** Attach the frame by using wall mounts. Or place the frame freestanding or hanging with the appropriate installation options.

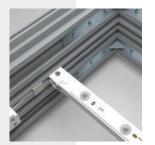


**2. INSTALL THE STABILIZERS** Place the stabilizers, with LED, at the indicated positions.



#### **5. ATTACH THE TEXTILE PRINT** First attach the silicone tendon in the corners of the

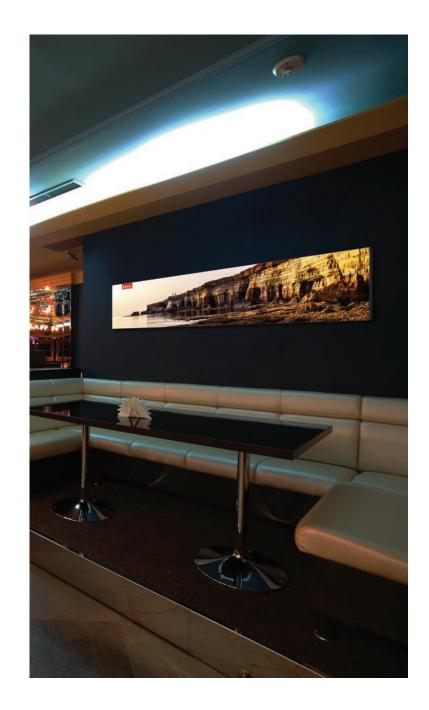
groove. Then press the print into the rest of the groove.



#### **3. CONNECT THE PLUGS**

Put the pre-assembled LED-strips and drivers together.





#### LED ADVICE HEIGHT: <0.5 METER WIDTH: INFINITE

When choosing the right LED technology, the environment where the display will be utilised must be taken into account. For example: An LED frame is placed in a shop window. It is important that the light distribution and the choice of the print are chosen well. The combination of these factors determines how smooth the image will ultimately be. When a dimmable frame is desirable, the Edge-lit technology is not an option

#### **EDGE-LIT**



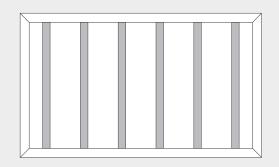
**LED ON DIBOND** 

 ★★★★☆
 Lightbox 50

 ★★★★★
 Lightbox 60

 ★★★★★
 Lightbox Double 100

#### **LED ON STABILIZER**



	Lightbox 120
****	Lightbox 200

- ★☆☆☆☆ Lightbox 90
- ★★☆☆☆ Lightbox 120
- ★ជជជជ Lightbox Double 100
- ★★☆☆☆ Lightbox Double 120
- ★★★☆☆ Lightbox Double 160
- **★★★★★** Lightbox Double 200

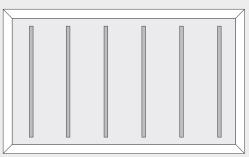


## HEIGHT: > 0,5 METER WIDTH: < 2 METER

LED advice for small to medium-sized lightboxes. When a lightbox is square, the Edge-lit technique is a common solution. Given the relatively small size, it is also an option to go for LED on dibond.

#### **EDGE-LIT**

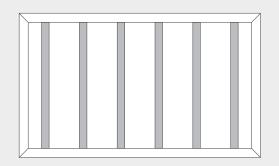




Lightbox 50 Lightbox 60 \*\*\*\*\*

**LED ON DIBOND** 

#### LED ON STABILIZER

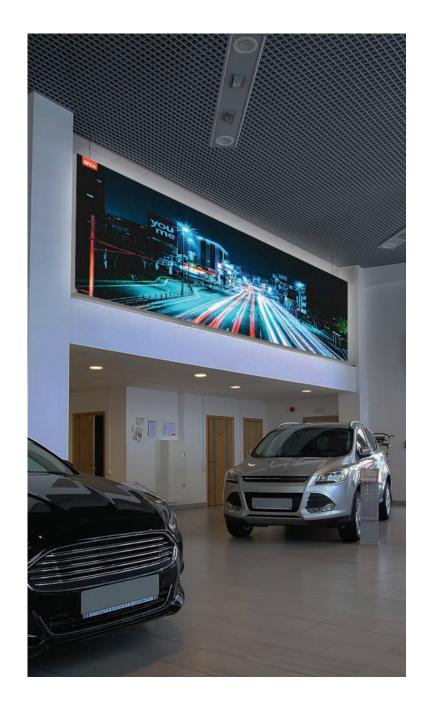


	Lightbox 120
****	Lightbox 200

Lightbox 90 ★★☆☆☆

- ★★★☆☆ Lightbox 120
- ★★☆☆☆ Lightbox Double 100
- ★★★☆☆ Lightbox Double 120
- Lightbox Double 160
- **★★★★☆** Lightbox Double 200

Lightbox Double 100 \*\*\*\*



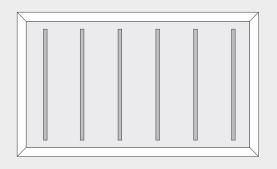
## HEIGHT: < 3 METER WIDTH: > 2 METER

In these sizes, the Edge-lit technology often gives a good result and is compact to transport. When the chosen profile is wider, the Edge-lit technology also offers a good light distribution. With smaller profiles there is a chance of "shadow spots". To prevent this, it is better to go for the LED on stabilizer technology. This is still easy to transport but more expensive and offers an even more impressive result.

#### **EDGE-LIT**

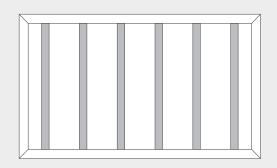


#### **LED ON DIBOND**



	Lightbox 50
*****	Lightbox 60
*****	Lightbox Double 100

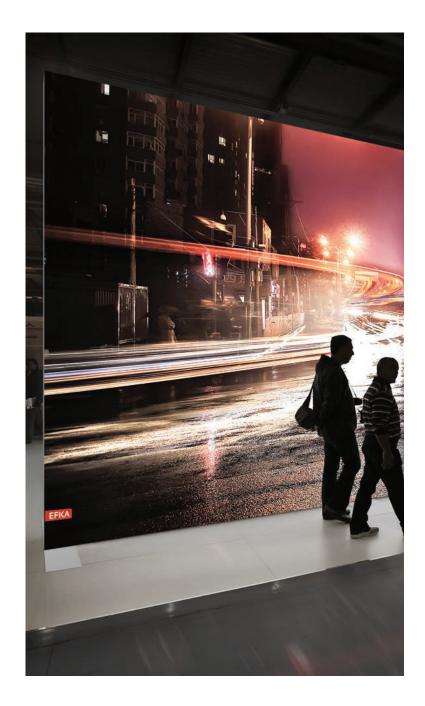
#### LED ON STABILIZER



	Lightbox 120
****	Lightbox 200

★☆☆☆☆ Lightbox 90

- ★★★☆☆ Lightbox 120
- ★☆☆☆☆ Lightbox Double 100
- ★★★☆☆ Lightbox Double 120
- ★★★☆☆ Lightbox Double 160
- **★★★★☆** Lightbox Double 200



## HEIGHT: > 3 METER WIDTH: INFINITE

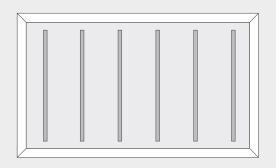
The solution for these sizes, is the "LED on stabilizer". By applying this technique, an even light distribution with sufficient power is created. It is also possible to apply the "LED on dibond" technique. This technique also gives large format frames a great illuminated result. The disadvantage of this technique is that the LED is placed on dibond plates, which makes the frame heavier.

#### EDGE-LIT



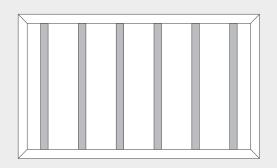
#### **LED ON DIBOND**

1

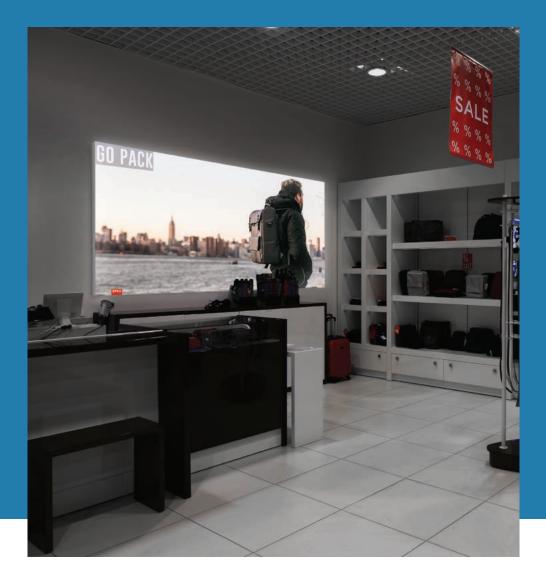


Lightbox 50
Lightbox 60
Lightbox Double 100

#### LED ON STABILIZER

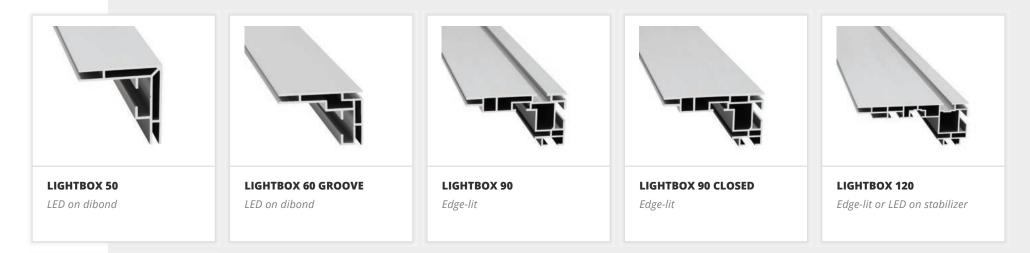


	Lightbox 120
****	Lightbox 200



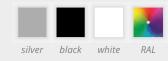
## LED FRAMES SINGLE-SIDED

Single-sided LED frames are suitable for wall mounting. The frames are often used as striking signage in retail and public spaces. Change the textile print and easily create a new expression.





**LIGHTBOX 120 CLOSED** *Edge-lit or LED on stabilizer* 



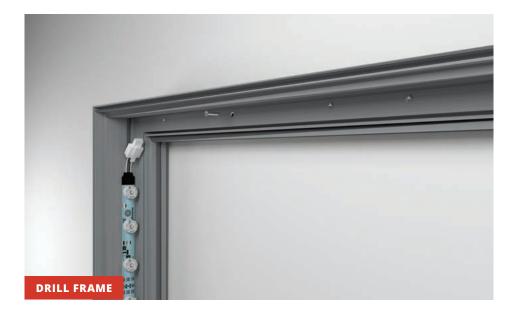


#### SINGLE-SIDED WALLMOUNTING LED FRAMES

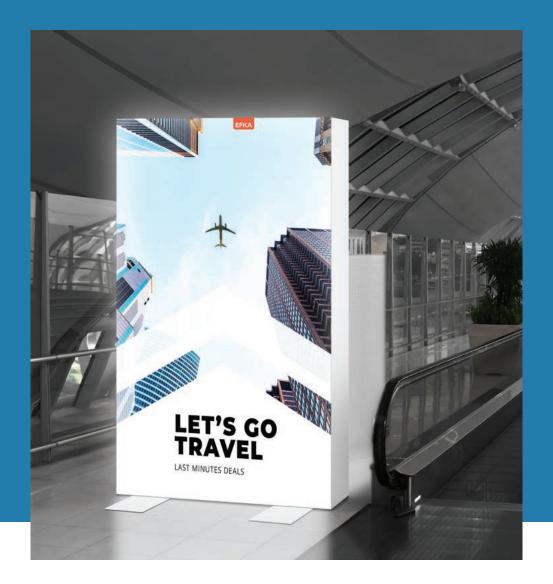
The LED frames could be mounted on the wall for a single-sided, illuminated advertisement. EFKA offers a suitable solution for each LED technology.

See page 134 for all wallmounts



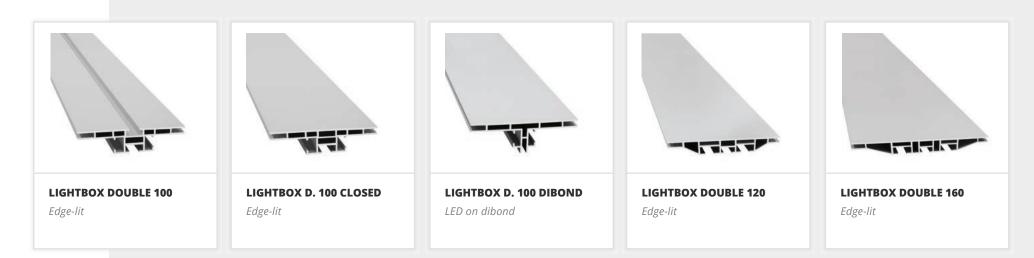




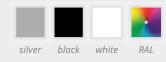


### LED FRAMES **DOUBLE-SIDED**

EFKA's double-sided light boxes are easy to assemble. Make a striking visual display in shops, in showrooms or during exhibitions. The light box ensures that a message is clearly visible night and day. The frame could be provided with two textile prints.









#### OPTION 1 HANGING OPTIONS

Create eye-catching hanging LED illuminated banners and displays that are perfect in any showroom or above any exhibition stand by using ceiling mounts.

See page 135 for all ceiling mounts

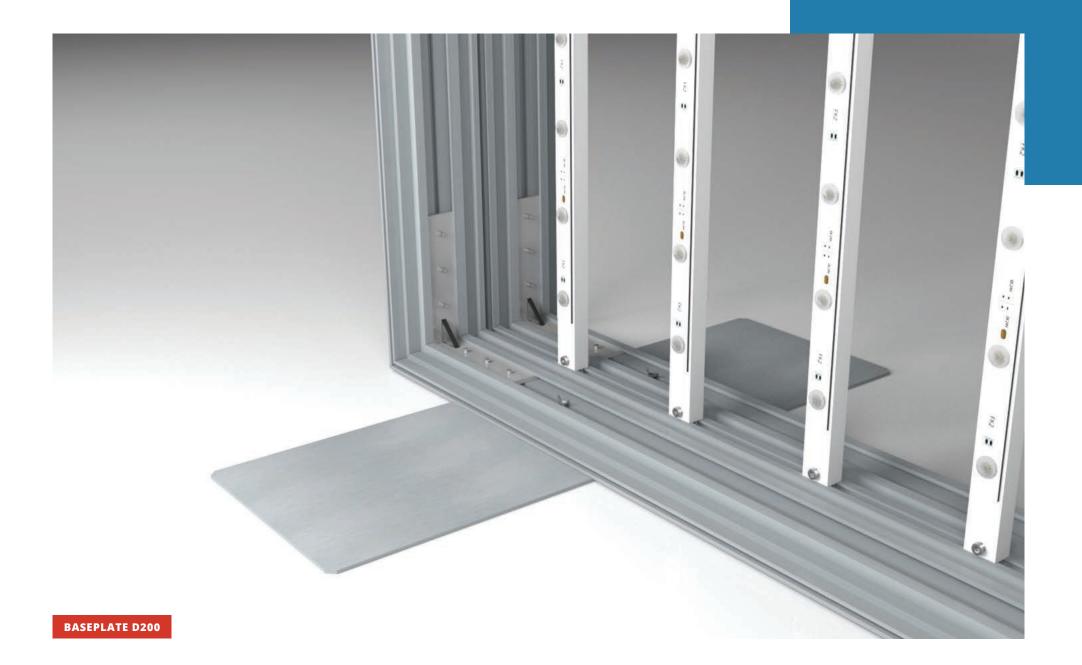


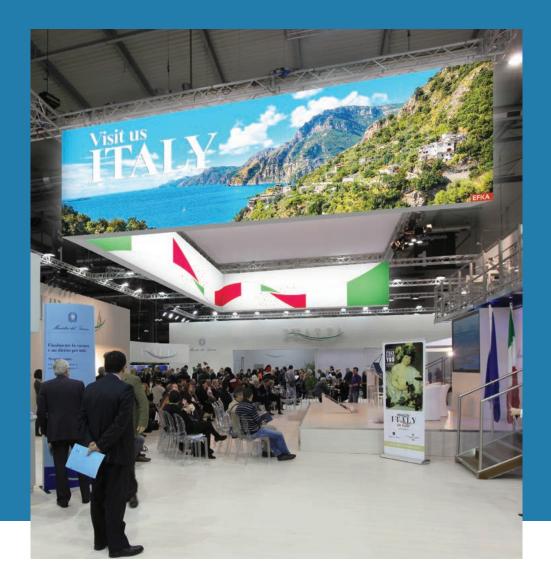


#### OPTION 2 FREESTANDING OPTIONS

Make eye-catching displays, standing banners or exhibition walls with the baseplates. The baseplate acts as a footrest under the aluminum LED frames.

See page 132 for all baseplates J





### LED FRAMES **3D CARRE 160**

With the **Carre 160** you create a modular and eye-catching 3D LED frame. The installed textile print is visible from multiple sides and perfect for both hanging and freestanding use. This modular construction is perfect for creating 3D illuminated exhibition stands.





#### 3D LED FRAME CARRE 160 FREESTANDING & HANGING

With the **Carre 160** it is possible to create 3D illuminated freestanding and hanging frames. Baseplates are not needed when the **Double 160** is used in combination with the Carre 160. Any size is possible by using stabilizers. Create an illuminated hanging banner by using ceiling mounts.



# CONNECT THE CORNERS Put the two different locksets together. Install the locksets in the appropriate groove and attach the miter cut lengths together.



#### 2. PLACE THE CARRE 160

Place the Carre 160 on the vertical part of the lockset and attach the Carre 160 and Double 160 with the supplied mounting set.



#### 3. ATTACH THE TEXTILE PRINT

First attach the silicone tendon in the corners of the groove. Then press the print into the rest of the groove.

#### shapes FREESTANDING





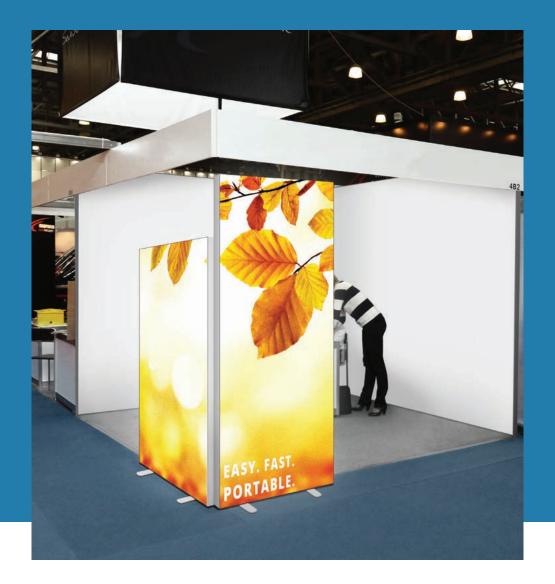




#### SHAPES HANGING

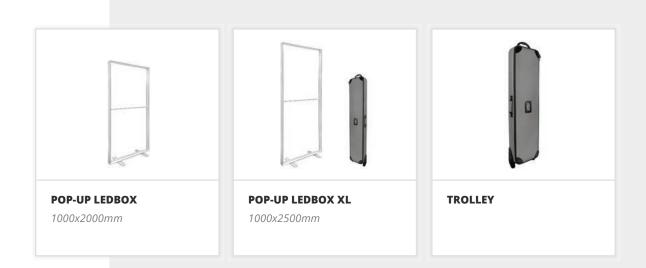


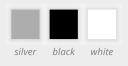




### LED FRAMES POP-UP LEDBOX

The **Pop-up LEDbox** is a compact and modular double-sided frame. The Pop-up LEDbox is ideal to use as an alternative for a roll-up banner, pop-up wall, or mobile display on temporarily locations. The Pop-up LEDbox could also be provided with two textile prints.







#### MODULAR LIGHTBOX POP-UP LEDBOX

The Pop-up LED box can be assembled in 5 steps, without any tools. Easily create a dynamic exhibition stand or display combining the aluminum frames by linking them together. The Pop-up LED box is supplied in a portable box or trolley.



**1. TURN THE BASEPLATES** Turn the two base plates that are attached to the bottom of the frame.



# **4. PLACE TOP ON BOTTOM**Place the mounted U-frame on top of thebottom frame and make sure to connect the lightingunits.



2. CONNECT THE BOTTOM CORNERS AND CABLE Mount the two lower vertical parts of the frame on the lower frame and snap the corners into place with the pre-mounted mounting system.

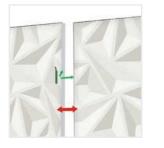


**5. INSTALL THE GRAPHIC** Place the silicone strip of the textile fabric in the corners and then press the silicone strip into the appropriate groove.



**3. CONNECT THE TOP CORNERS** Now assemble the three upper frame parts together to

create a U-shape. Use the numbering on the frame as guideline.

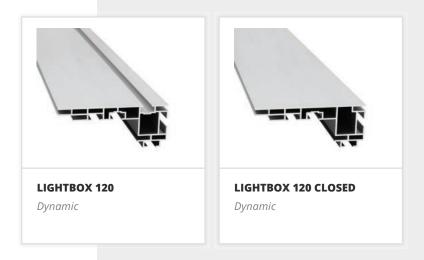


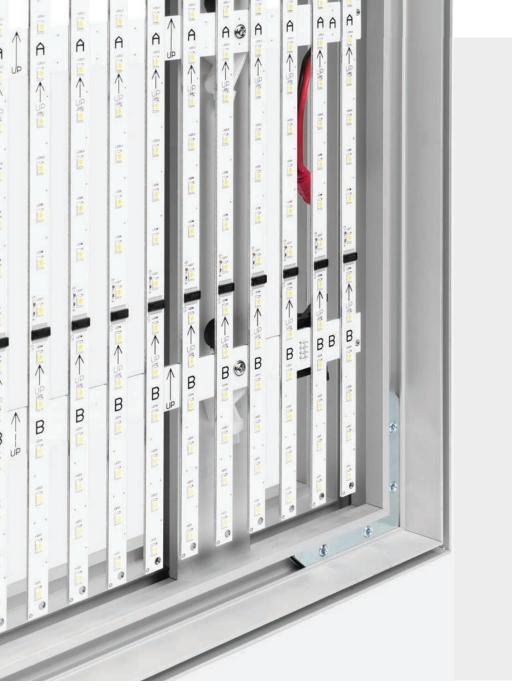
**MULTIPLE FRAMES** - *OPTIONAL* Combine and link multiple frames with the supplied connectors.



### LED FRAMES **DYNAMIC**

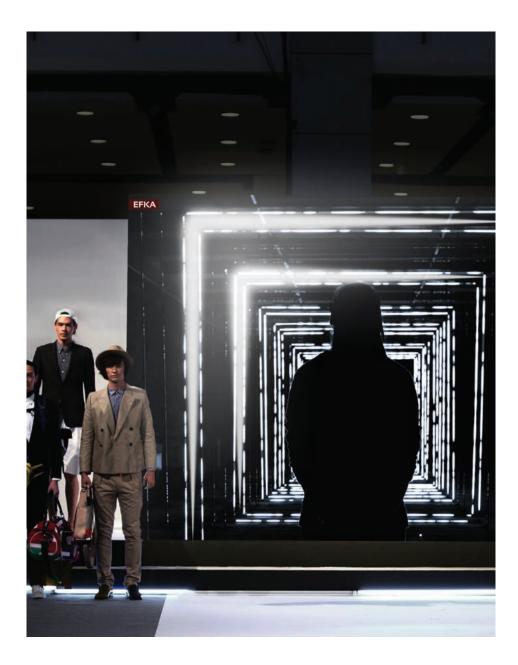
With the **Lightbox 120** dynamic you are able to let your textile print "come to live". This will be achieved with the help of a video animation that controls each LED light behind the screen individually. In this way, a part (or whole) of the textile fabric could be illuminated in their own special way.

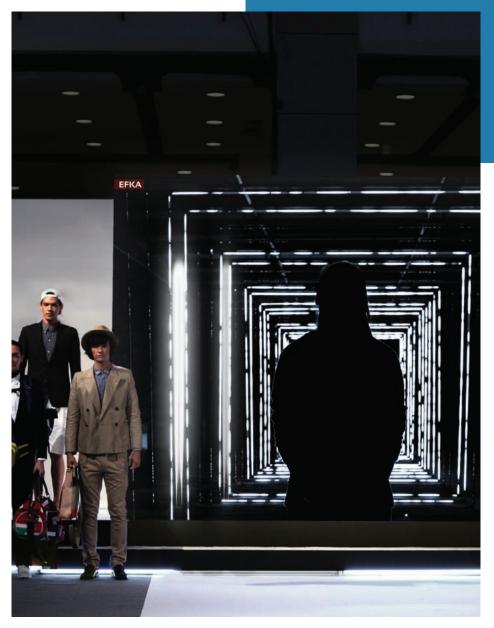


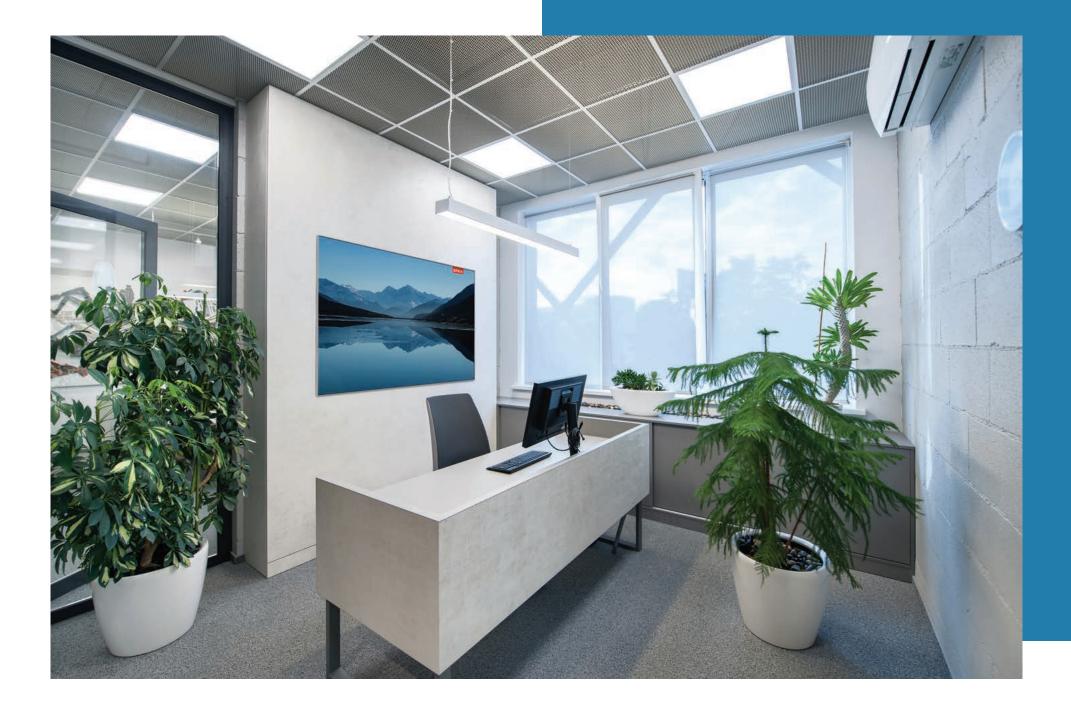


# ANIMATIONS LIGHTBOX DYNAMIC

With the help of the pre-programmed animation, an advertisement can be brought to someone's attention. With this dynamic light box, each LED panel can be controlled separately, making it seems the sublimation print is coming to life.







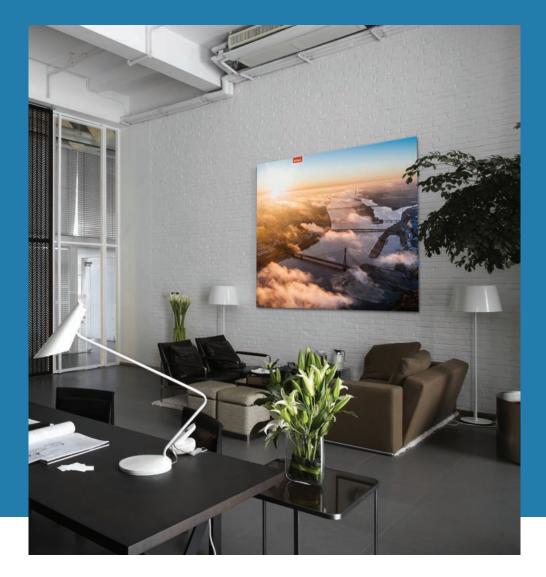
### **ADDITIONAL FRAMES**

In addition to textile frames and LED frames, there are also other aluminium profiles. These

profiles aren't suitable for textile prints with a silicone strip.

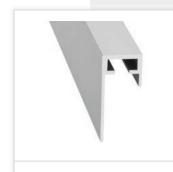
3.1 PANEL HANGING	92
3.2 L-SHAPES	94
3.3 CORD 43	96

3.1



### PANEL FRAMES PANEL HANGING

Place a panel hanging behind the printed material to give the print a floating effect. Attach the panel hanging to the wall and create a special appearance.



PANEL HANGING 18

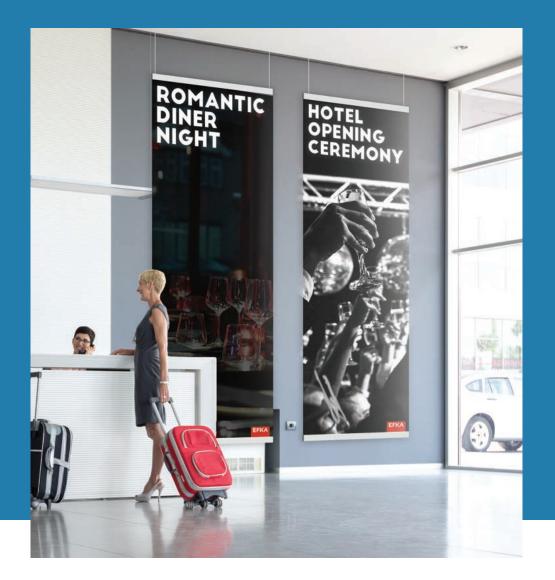


### PANEL FRAMES

The frame gives a modern and exclusive look to a print on material or canvas.

L-SHAPE 30





#### KEDER FRAMES

With the **Cord 43** it is possible to make hanging banners easily. Only two aluminum Cord 43 profiles are required for this. It is also possible to bend these profiles. The endcap ensures that the fabric stays in place.



CORD 43

#### OPTION HANGING KEDER FRAME

This frame could be provided with a textile print with a keder tendon. The print with the flexible thick tendon is placed in the aluminum frame and closed with an endcap. The keder must have a minimum thickness of 7.5mm and a maximum thickness of 13.0mm, so the print could be placed.



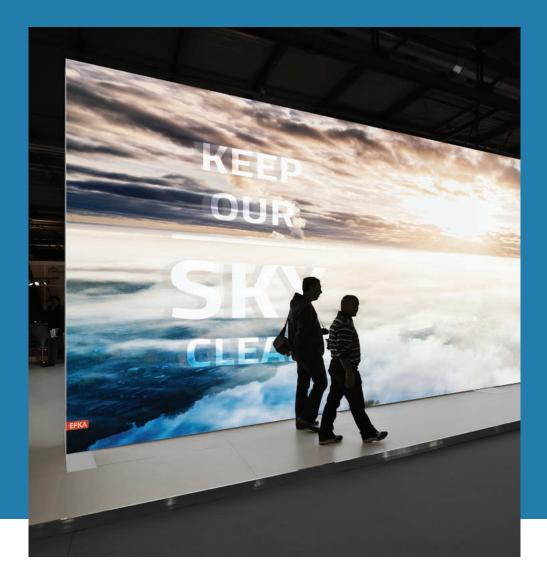


### **DETAILS & INFO**

This is a chapter with details and information about all of EFKA's accessories. Read how acoustic material could be placed in a frame and which accessories you need to use to extend a frame.

 4.1 LARGE FRAMES
 102

 4.2 ACOUSTIC SOLUTION
 107



### EVERY SIZE POSSIBLE

Extension sets and stabilizers are used with large aluminum frames. The stabilizers guarantee extra stability.

# EXTEND A FRAME WITH

Frames with lengths above 4000 mm are usually supplied in two or several parts and can be easily put together with the corresponding extension set.

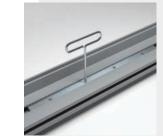
Extension sets are easy to mount and applicable on almost all aluminium profiles.



**1. CONNECT THE PARTS** Place two separate loose parts of the extension set on each other.



2. CONNECT THE FRAMES Place the extension set in the appropriate groove and slide the individual frames together.



# **3. TIGHTEN THE SCREWS**

After the frames have been pushed together,

the screws must be tightened with the

supplied allen key.



# REINFORCE THE FRAME WITH **STABILIZERS**

Stabilizers are used with large format aluminum frames. To guarantee extra stability and a strong frame, a sufficient amount stabilizers must be applied.

### **STABILIZER OPTIONS**





**1. CONNECT THE LOCKS STABILIZER** Slide the locks stabilizer into the stabilizer and insert the screw through the hole at the top to secure the lockset.



2. CONNECT THE FRAMES Slide the stabilizer including locks stabilizer into the appropriate groove with untightened screw.



### **3. TIGHTEN THE SCREW**

Tighten the lockset screw to connect the stabilizer to

the aluminum frame.

# **STABILIZER ADVICE**

Frame length	Stabilzer(s)
< 2 meter	0
2 - 2,5 meter	1 recommended
2,5 - 4 meter	1 required
4 - 5 meter	2 recommended
5 - 6,5 meter	2 required
6,5 - 7,5 meter	3 recommended
7,5 - 9 meter	3 required
9 - 10,5 meter	4 recommended
10,5 - 12 meter	4 required
12 - 13 meter	5 recommended
13 - 14,5 meter	5 required
14,5 - 15,5 meter	6 recommended
15,5 - 17 meter	6 required

# **STABILIZER ADVICE**



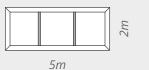
### **1. STABILIZER LONG SIDE**

At 2 - 2.5 meters, the use of a stabilizer is recommended. Use one stabilizer when the long side of the frame has a length of 2.5 to 4 meters.



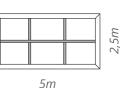
## 4. STABILIZER CROSS

For frames with a length and width between 2 - 2.5 meters, two stabilizers are recommended. Two stabilizers are required for frames up to 4 meters.



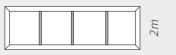
# 2. STABILIZERS LONG SIDE

Two stabilizers are recommended for a length of 4 - 5 meters. Two stabilizers are required from 5 - 6.5 meters.



### **5. STABILIZER DOUBLE CROSS**

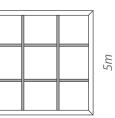
When one side of the frame is larger than 2 meters and the other side above 4 meters, three stabilizers are recommended.



7,5m

# 3. STABILIZERS LONG SIDE

The use of three stabilizers is recommended with a length of 6.5 - 7.5 meters. Three stabilizers are required with a length of 7.5 -9 meters.



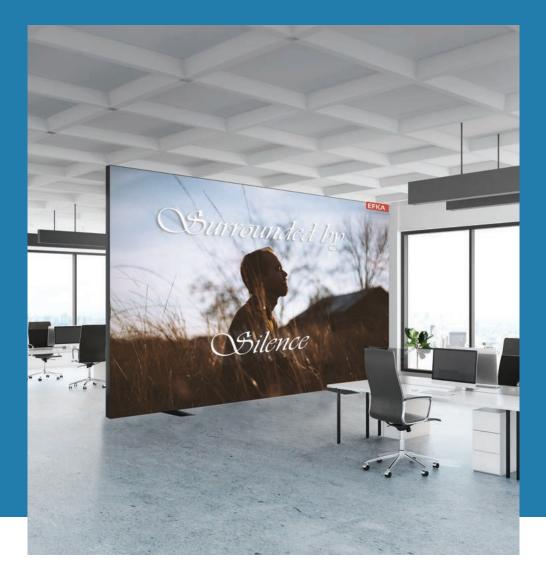
5m

# 6. STABILIZER QUATRO

If both sides of the frame are larger than 4 meters, two stabilizers on each side are recommended.

# SOUNDPROOF MATERIAL

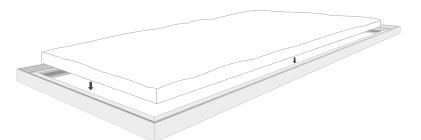
Improve acoustics and reduce reverberation. Mount the frame with sound-absorbing material on the wall or use it as a room divider.





# SOUNDPROOF MATERIAL THERM ACOUSTIC

**Therm Acoustic** is made of polyester fibers (PET bottles) of which 60% comes from recycling. It contains no toxic substances. Tested in accordance with Oeko-Tex standard 100, report no. 94.0.0541.



# FK-8920

# Therm acoustic D20/10 ★ជំជំជំជំ Light absorption Values: Undefined Thickness: 10 mm

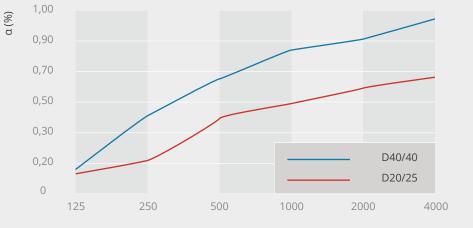
# FK-8910

Therm acoustic D20/25 ★★★★☆ Excellent absorption NRC = 0,45; a = 0,45 Thickness: 25 mm

Therm acoustic D40/40 **\*\*\*\*** Best absorption NRC = 0,75; a = 0,70 Thickness: 40 mm

### FK-8930





With three different types of sound-absorbing material, there is always a suitable

solution to reduce the sound. See the table below for the results.

**ABSORPTION VALUES** 

Frequency (Hz)



# SOUNDPROOF MATERIAL BASOTECT

Basotect® is a versatile and high-quality melamine resin foam. It is produced without hydrocarbons, flame retardants and/or toxic heavy metals. The product does not contaminate the water and is provided with the OEKO-TEX Standard 100 certificate.





# 11



# FK-8950

Basotect finish 1 AC = >90% / D=45mm / f=2000Hz Thickness: 45 mm

# FK-8950

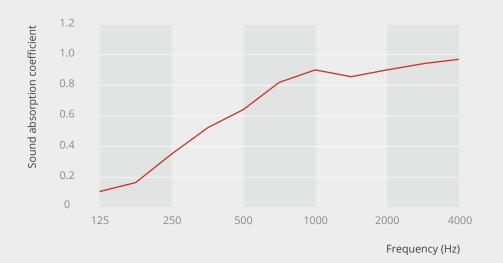
Basotect finish 2 Basotect finish 2 Best absorption SAC = >90% / D=45mm / f=2000Hz Thickness: 45 mm

### FK-8950

Basotect finish 3 ★★★☆ Excellent absorption SAC = >90% / D=45mm / f=2000Hz Thickness: 45 mm

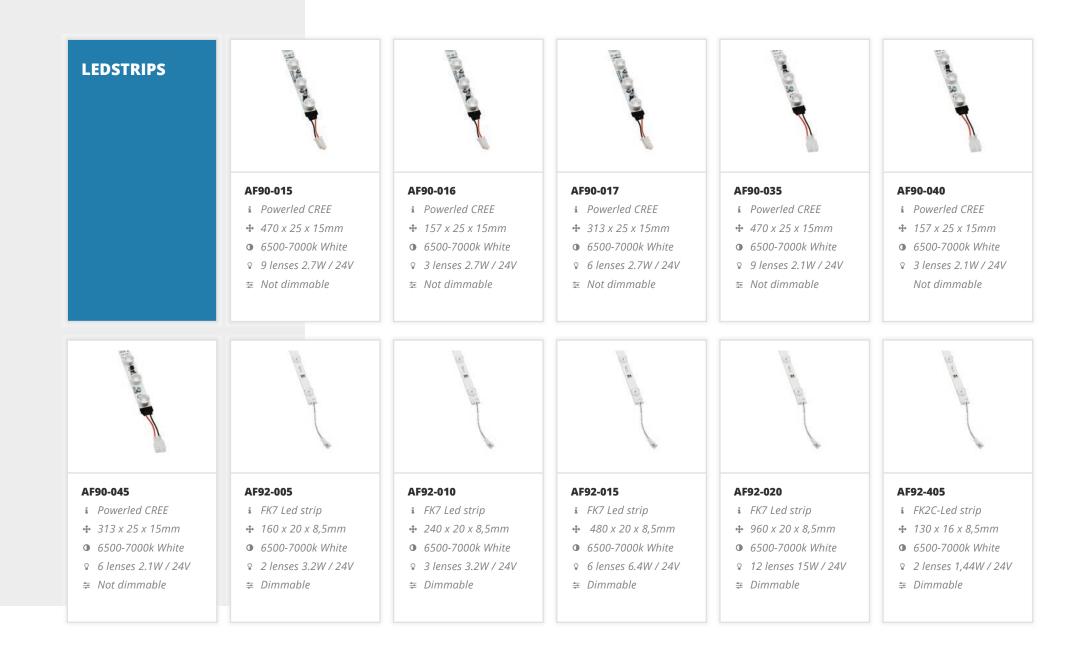
### **ABSORPTION VALUES**

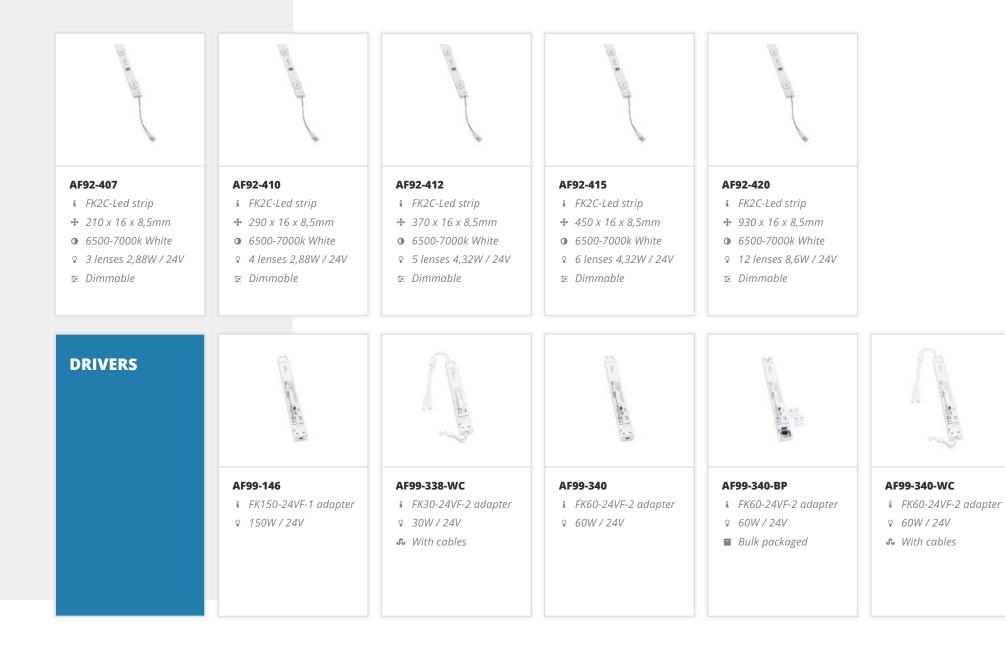
With three different types of finishes, there is always a suitable solution to reduce the sound. See the table below for the result.

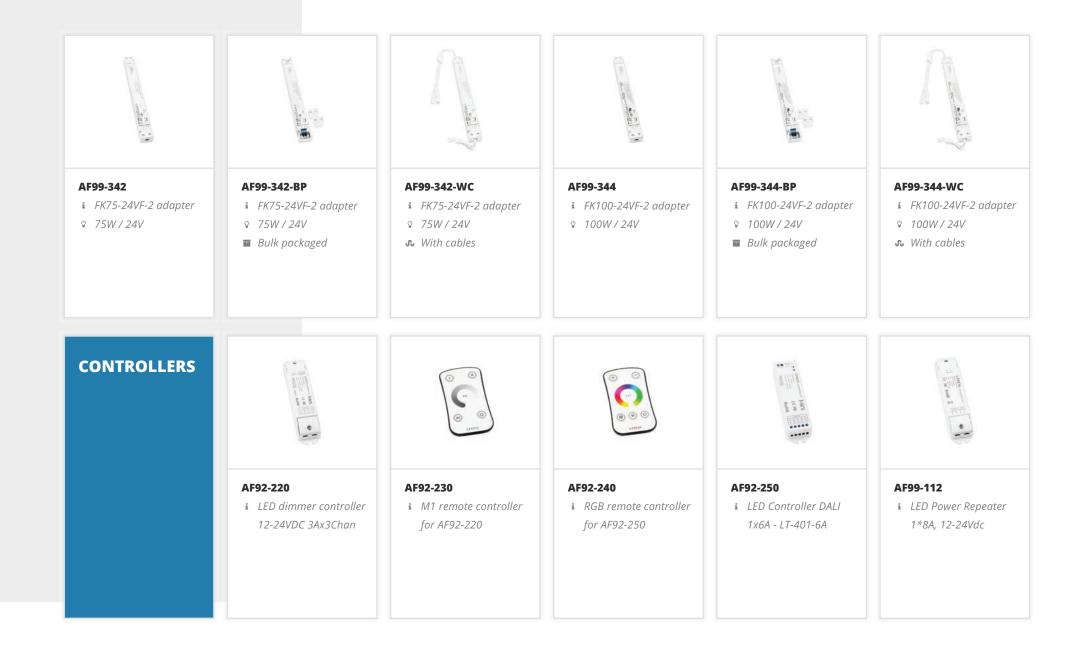




# LED COMPONENTS











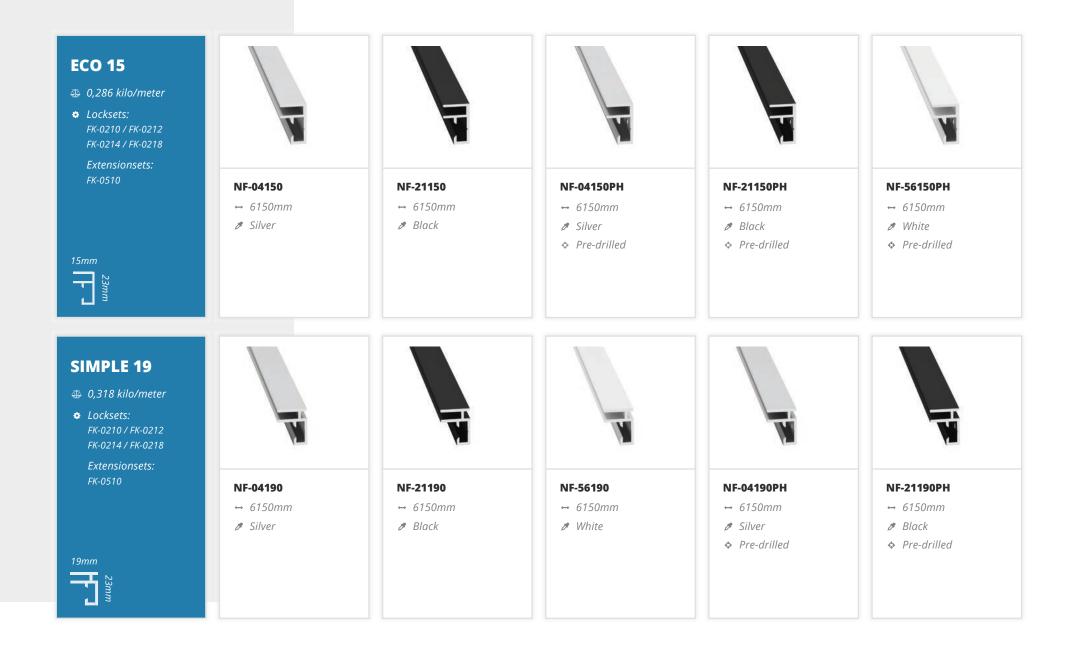
FK-8220

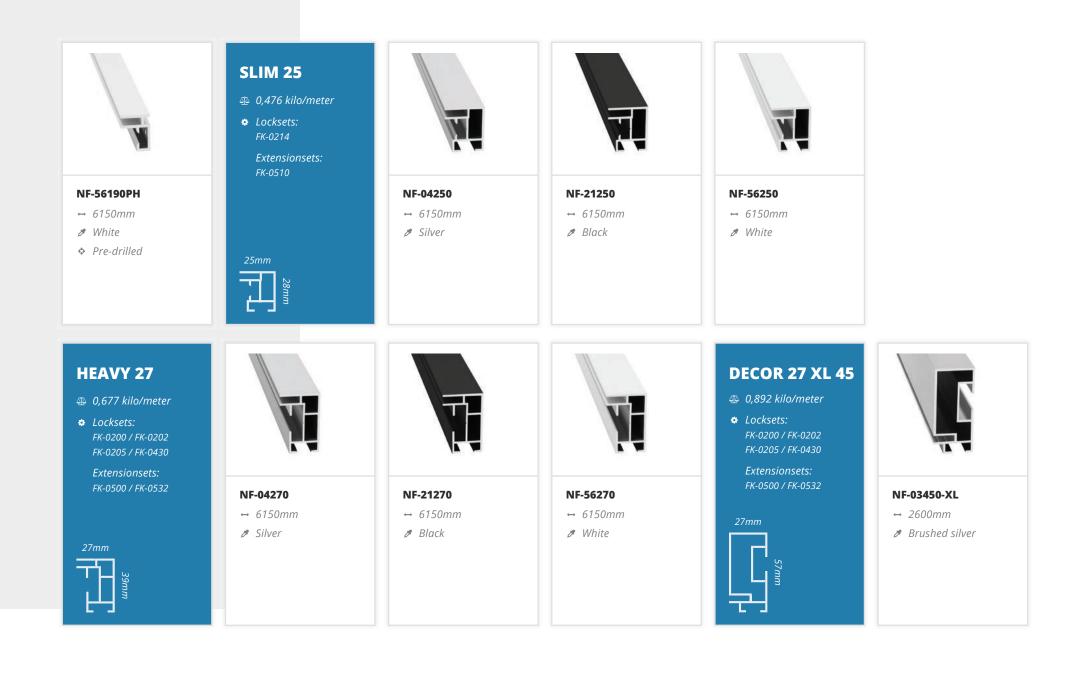
i Wire cord clip (100pcs)

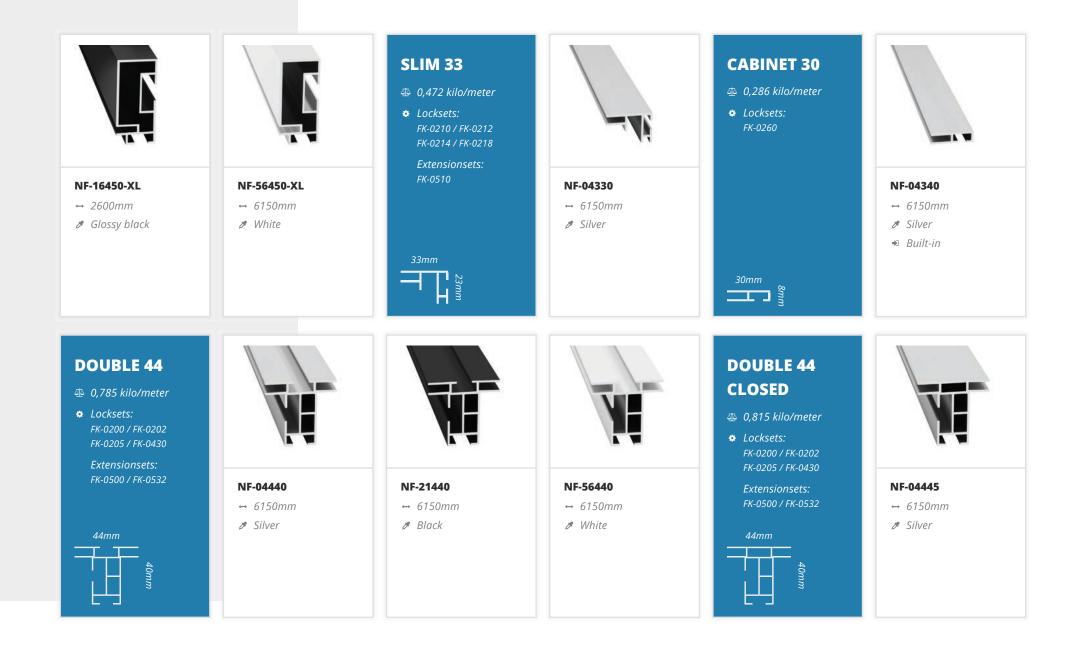
✤ 25 x 25 x 8,7mm

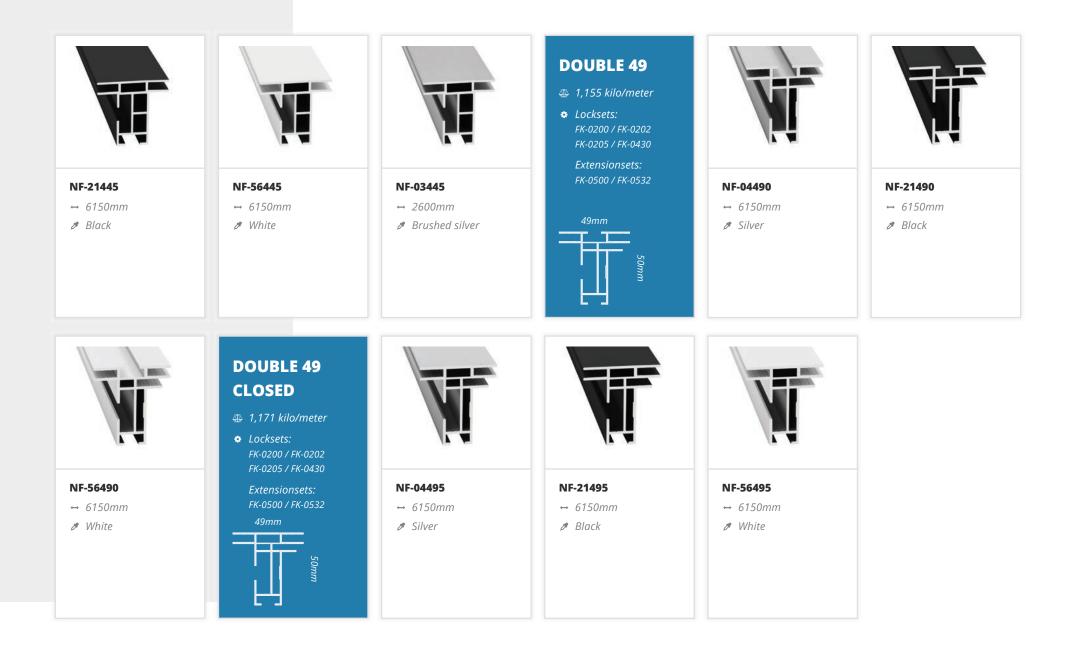


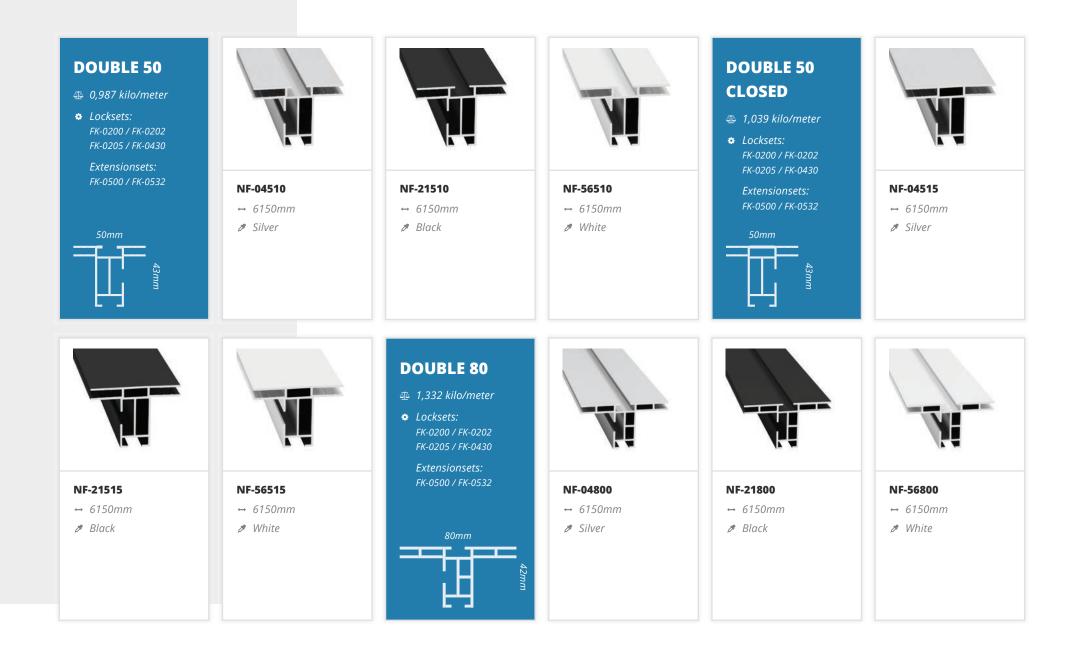
# PRODUCT OVERVIEW

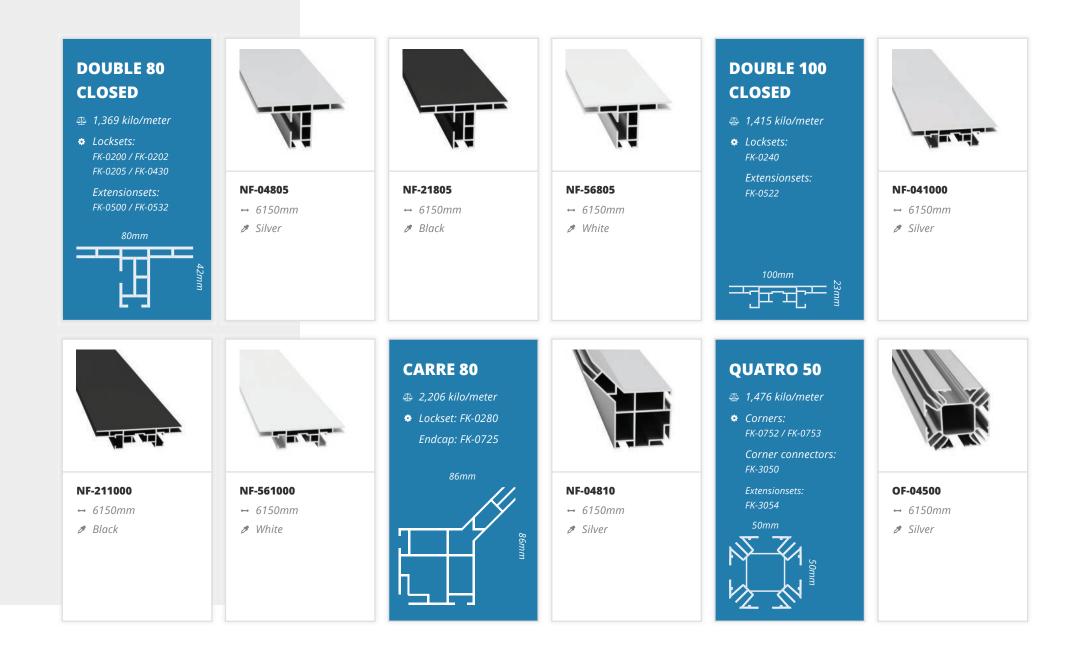


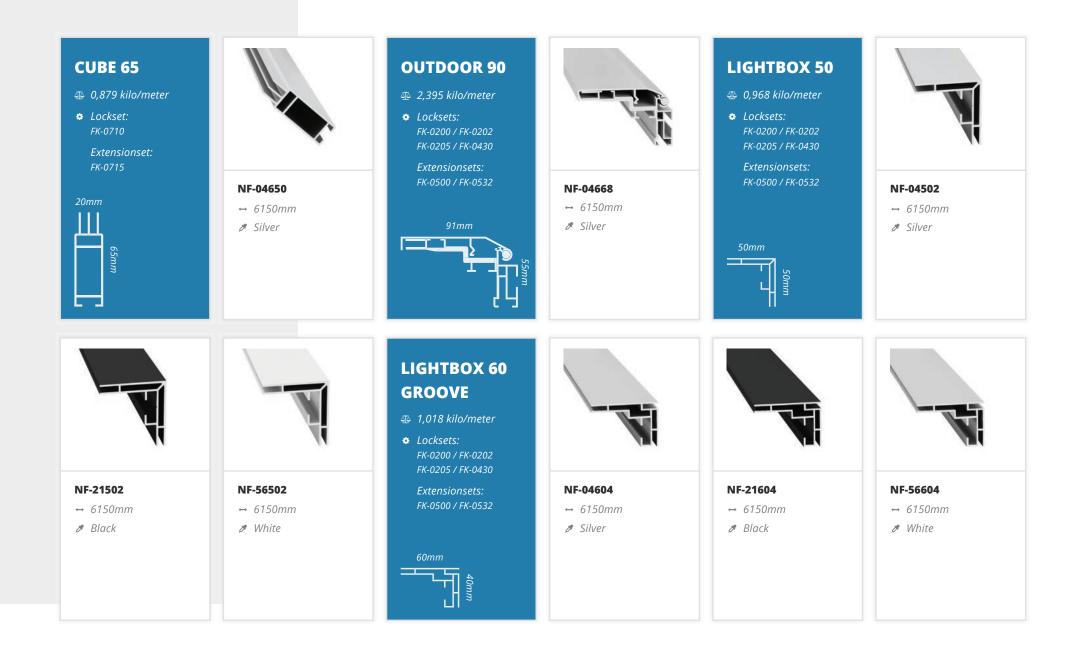


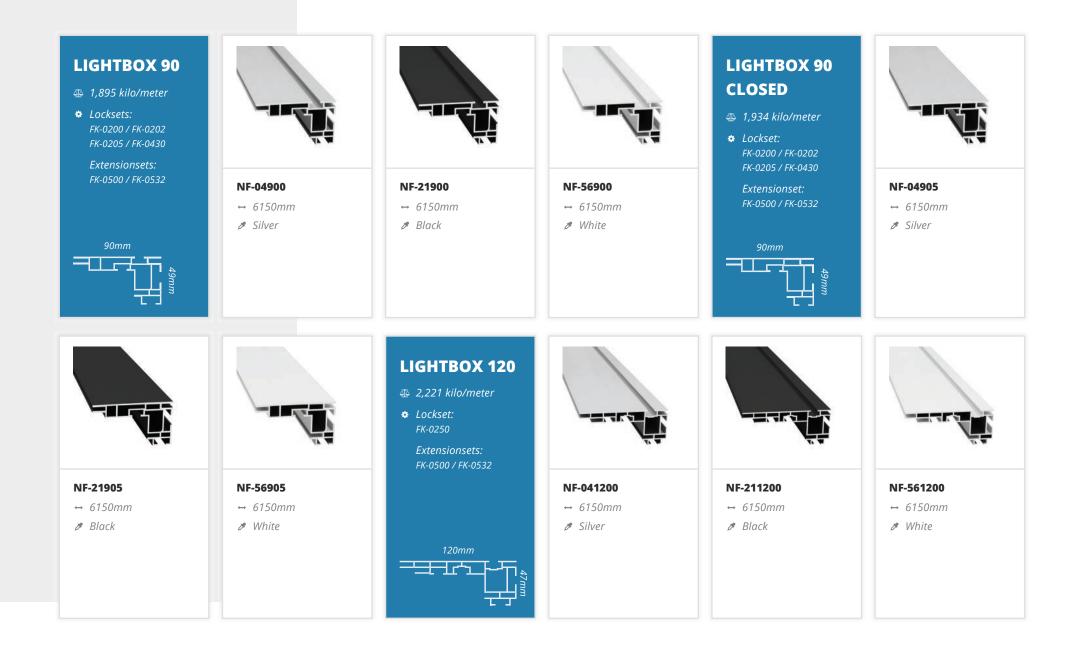


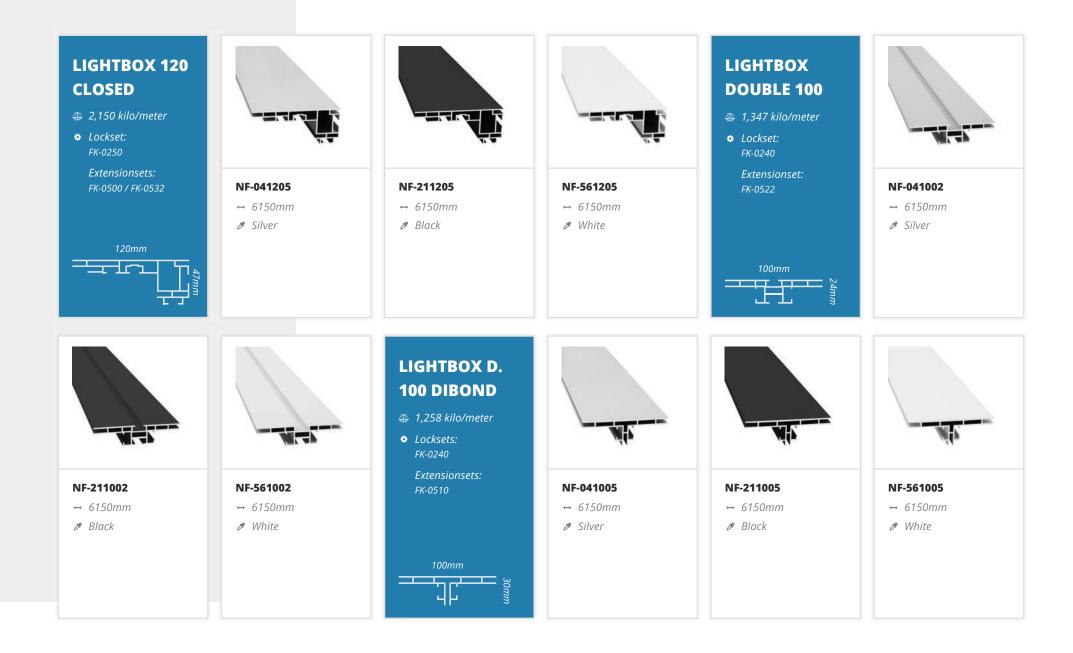


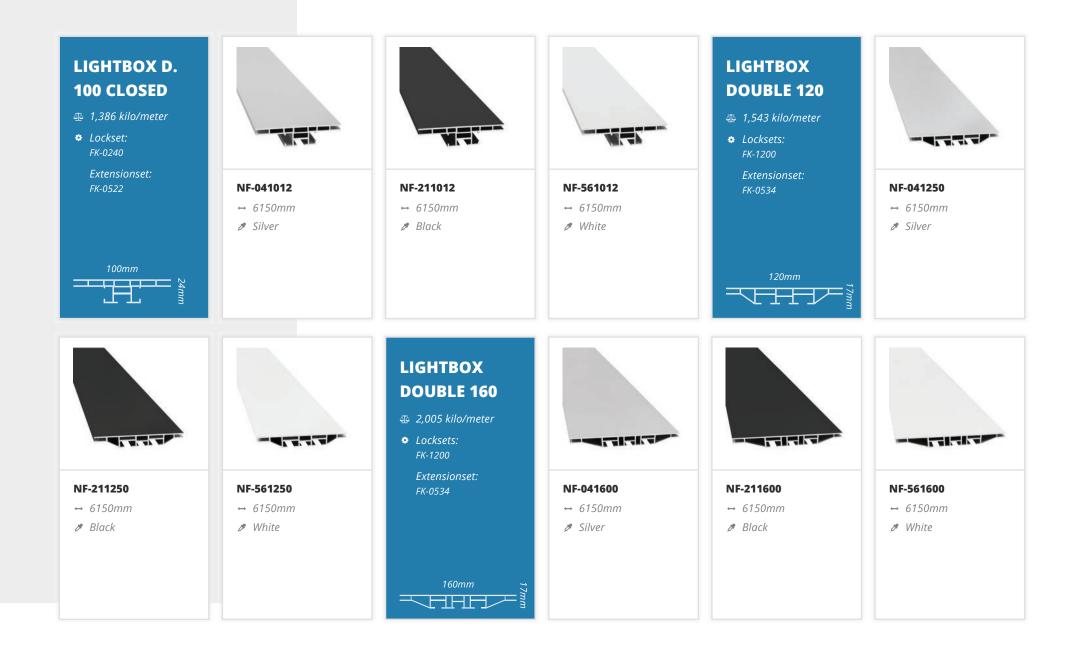


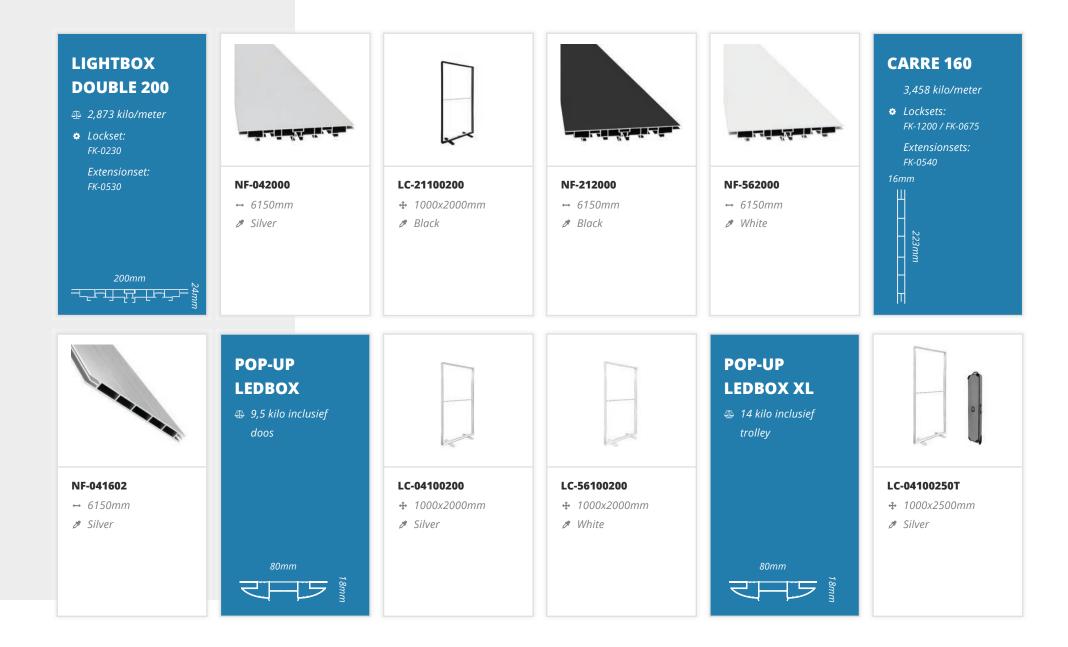


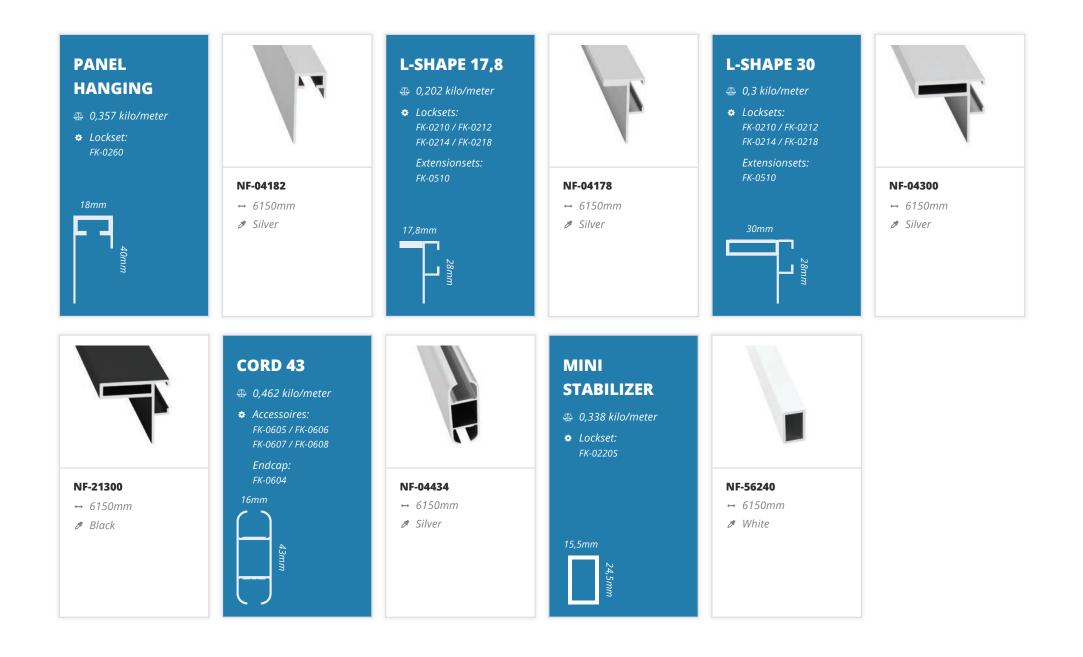


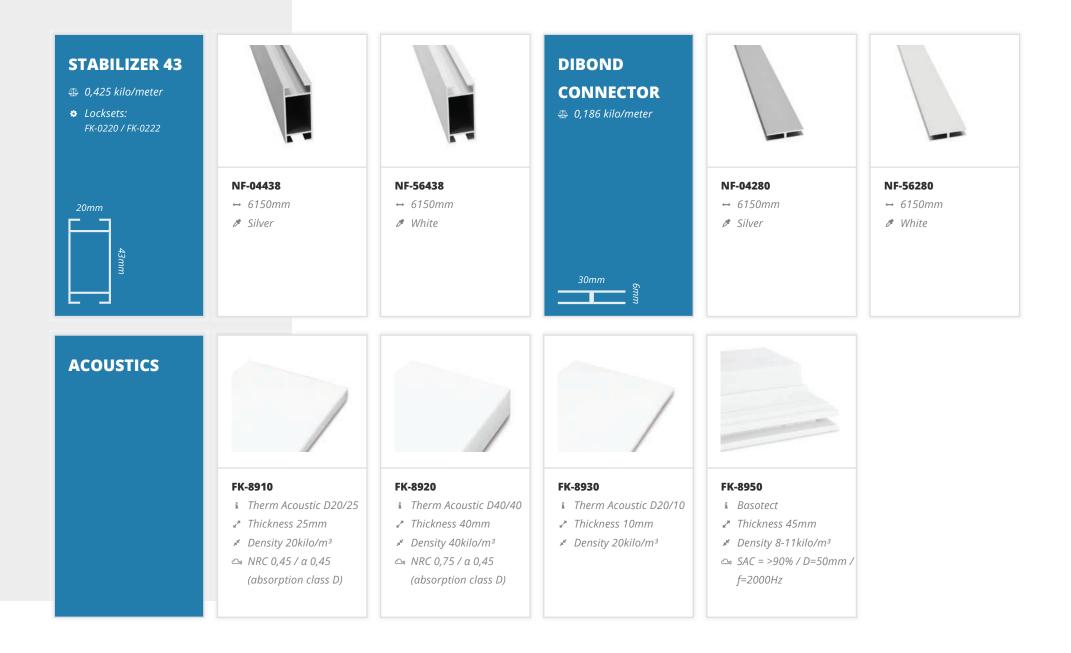


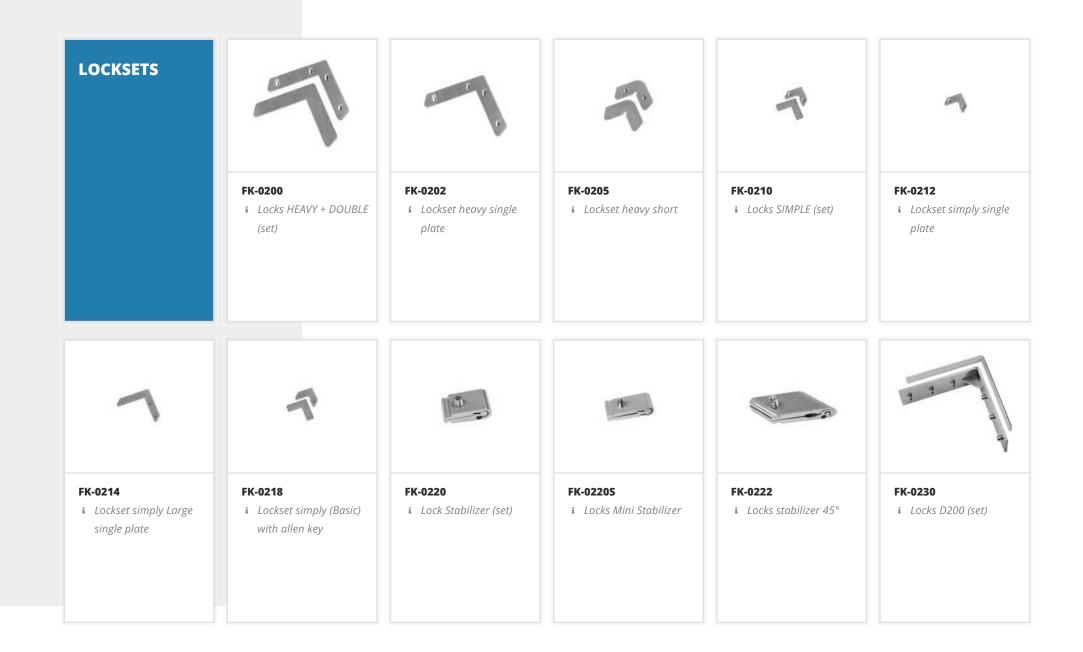


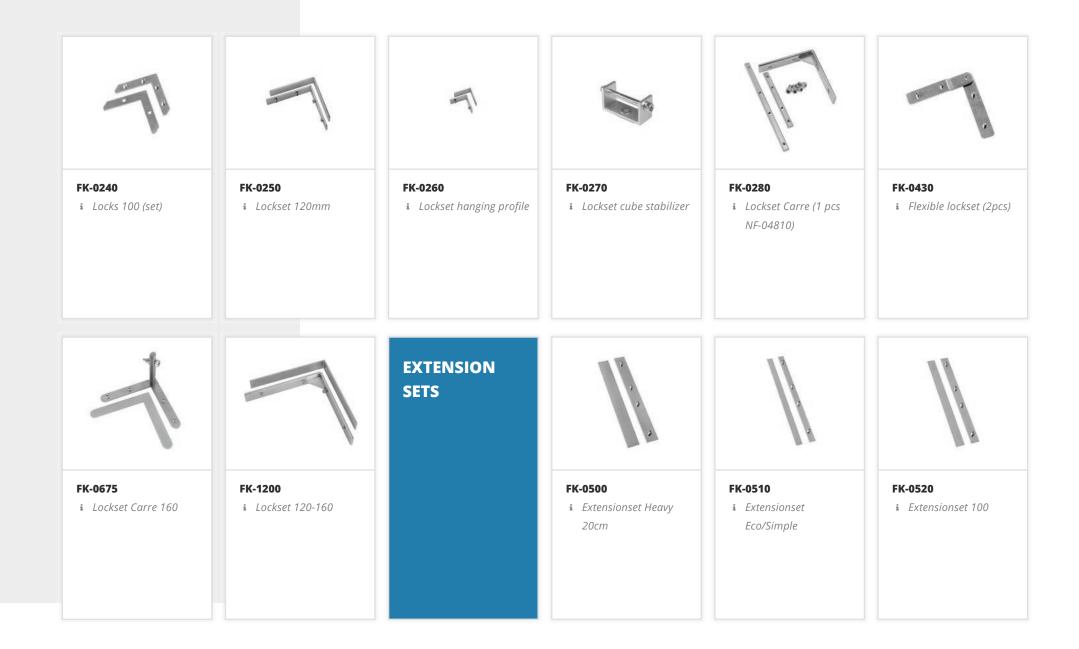


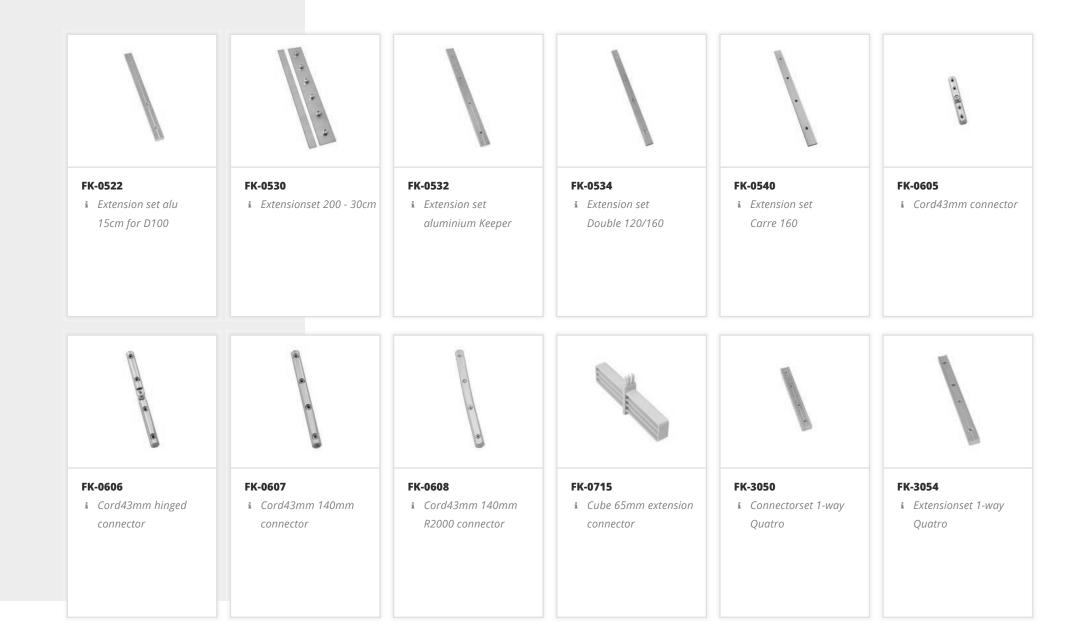


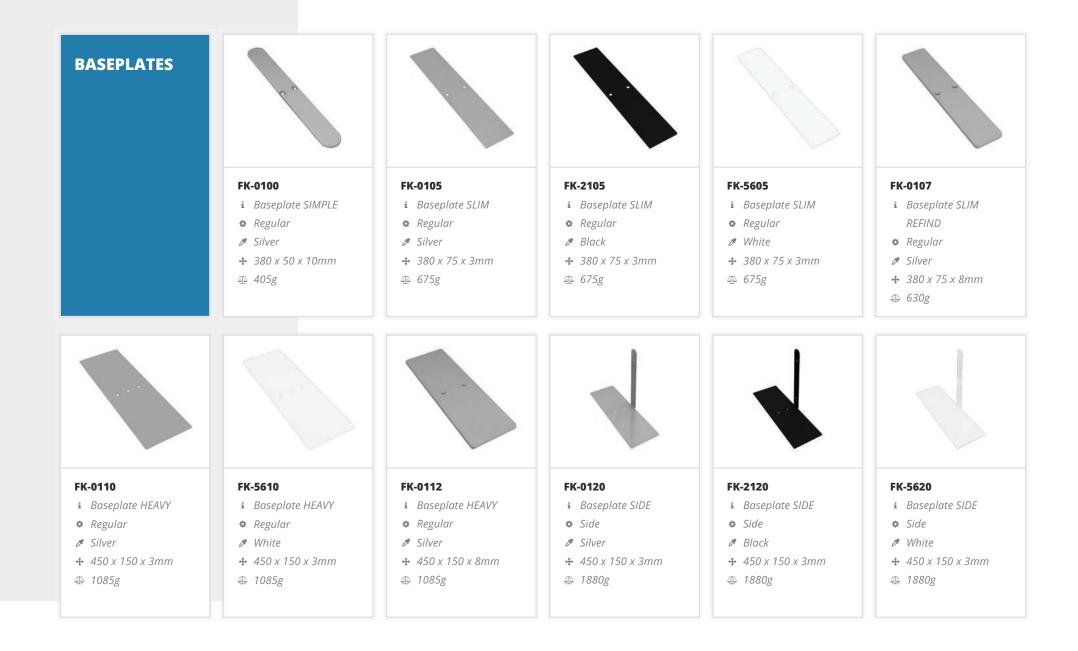


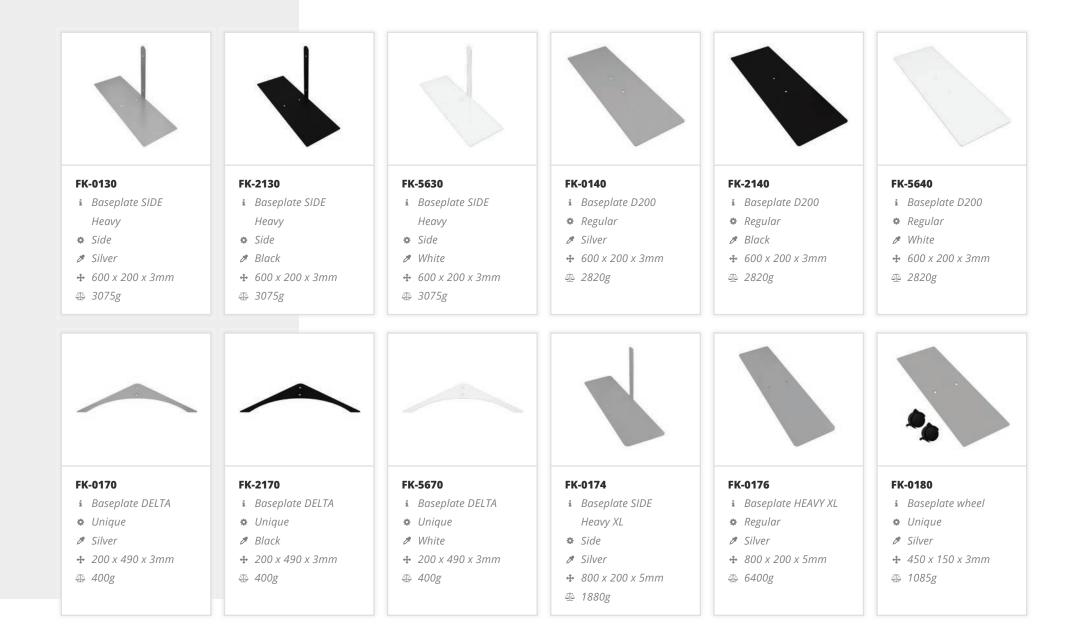


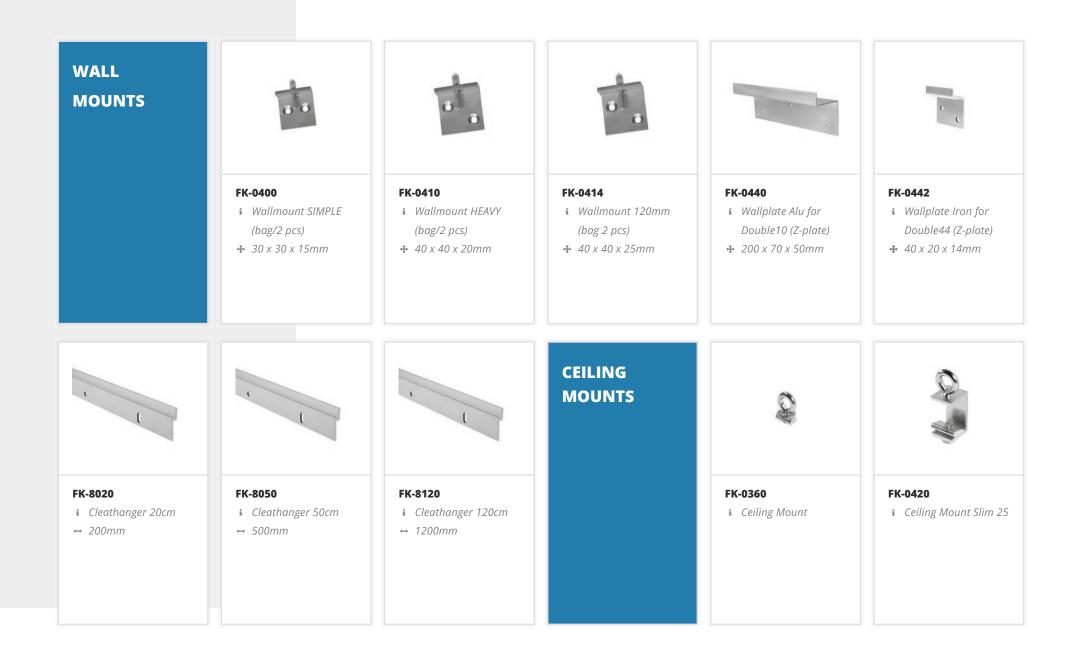


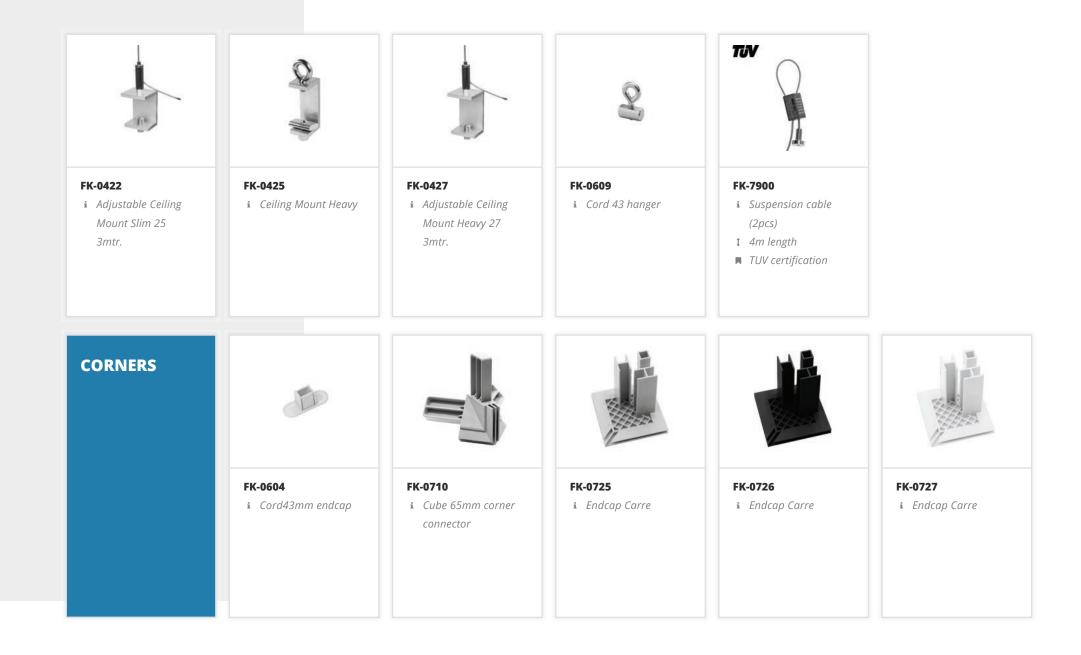


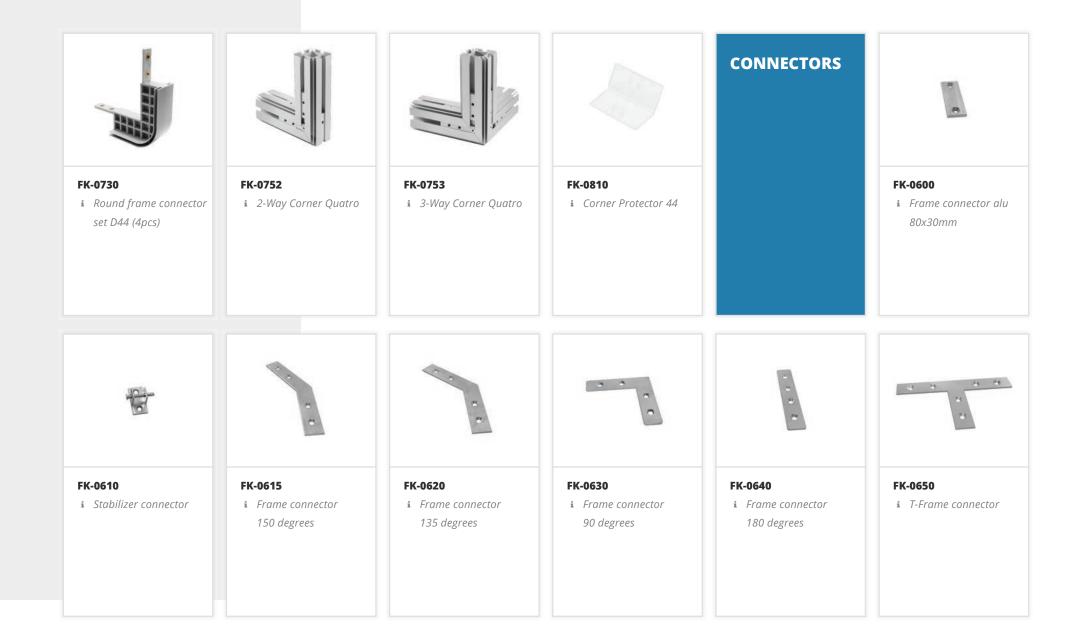


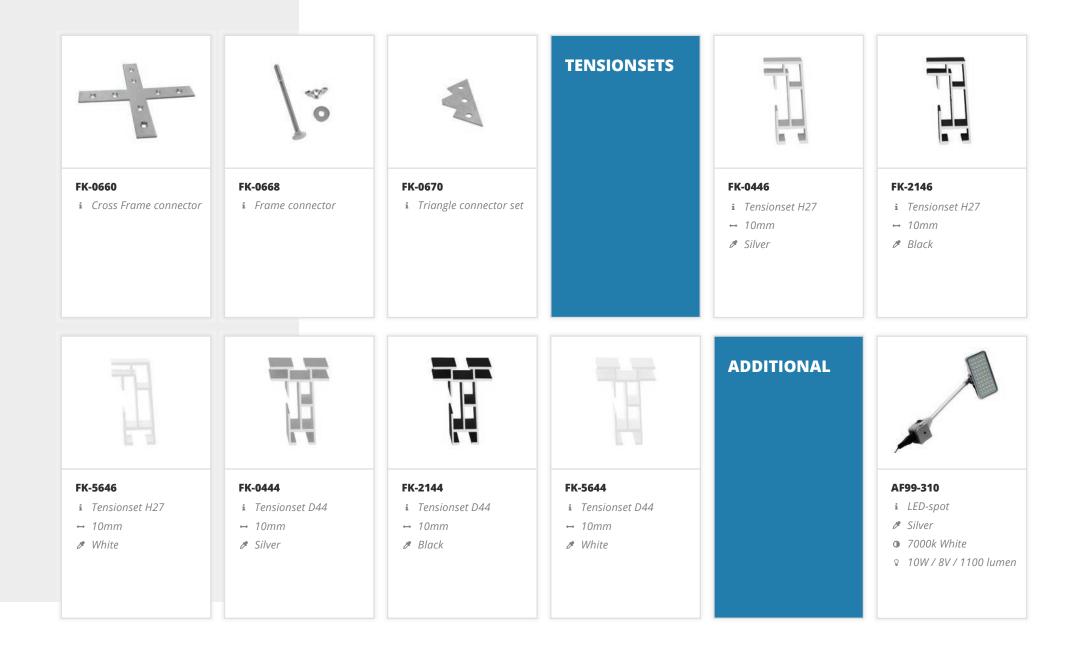




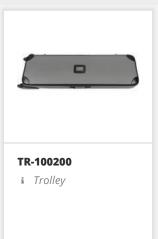








AF99-312     FK-0300     FK-0306     FK-0310     FK-0320       i LED-spot     i Alu Nut     i Steel Nut     i M6 Screw     i M6 Screw	
	FK-9994
Black              ← 12,55mm              ← 8,5mm           7000k White              ← 10W / 8V / 1100 lumen               ← 12,55mm               ← 8,5mm	i Aluminum Sample Box with 3 boxes







Γh

ADVANCED MACHINERY

PERSONAL ADVICE

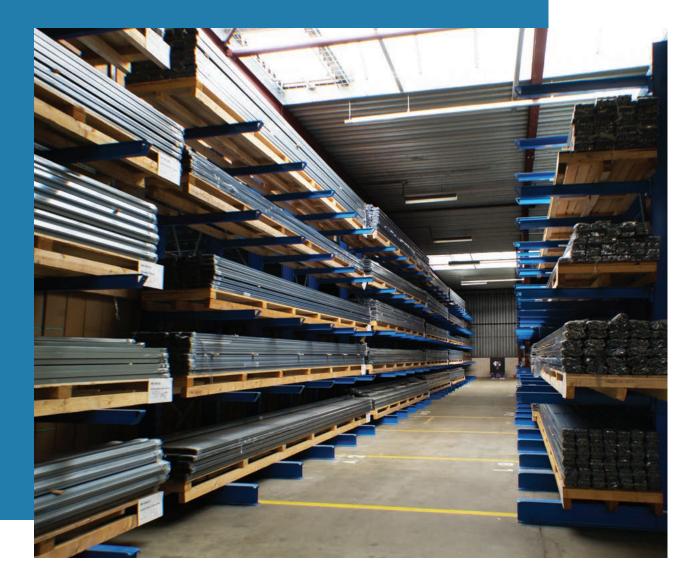
**ONLINE CALCULATOR** 

**TRANSPORT WORLDWIDE** 

# LARGE STOCK

EFKA has a warehouse (7000m<sup>2</sup>) and therefore they can meet every demand.







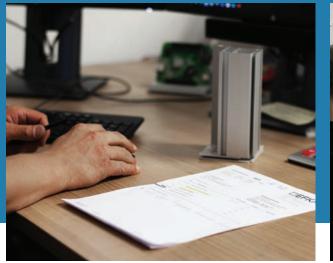
## ADVANCED MACHINERY

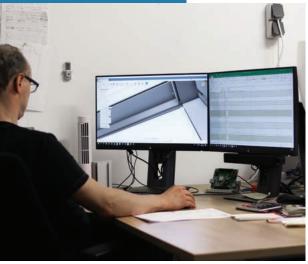
With the newest machines, EFKA delivers quality.

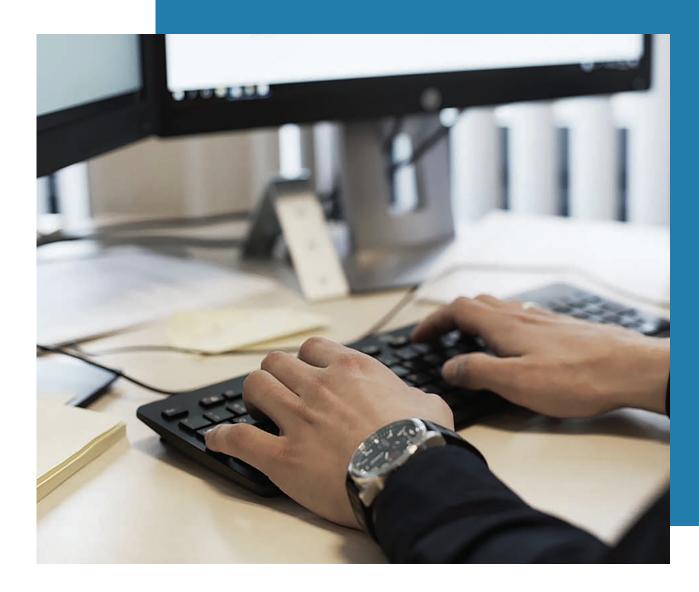
## PERSONAL ADVICE

EFKA has a team of engineers and project supervisors.









# ONLINE CALCULATOR

Fast quoting with the online

calculator.

## WORLDWIDE SHIPPING

With our partners, we can arrange transport anywhere in the world.









#### EFKA INTERNATIONAL BV

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