

Boost your outdoor experience

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Light up the Dark

Light and ambiance are not only for indoors, by combining light and architecture in outdoor settings, the city also remains vibrant at night. With its 7 different light effects and its multiple installation options, Frax has been designed for every aspect of the urban architecture: any form, any material or any composition.



Family Overview





CHOOSE YOUR POWER
Small: 5,9 up to 7,9W / 650 up to 870lm
Medium: 17,9W up to 23W / 1800 up to 2400lm

CHOOSE YOUR OPTICS

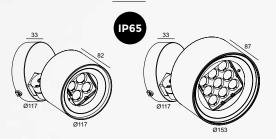
8° / 14° / 26° / 47°

Other effects: linear spread / wallwash

CHOOSE YOUR ACCESSORY

Honeycomb

CHOOSE YOUR INSTALLATION
Surface mounted on hard surfaces
On a pin in soft surfaces Strapped around a tree Mounted on a pole





Take a look inside

LED CASET® TECHNOLOGY

Frax is based on Delta Light's **LED Caset® technology**, which combines multiple LEDs with individual **collimator lenses** per LED to generate a clean-cut light distribution.

The individual lenses create a multi-layered light distribution to generate a clean 8° or 14° beam angle. Other beam angles or other light effects are being obtained by adding **microlenses** in front, sculpting the light into a 26° or 47° beam angle or into a linear or wallwash effect.



LED Caset® Technology



LENSES - ENDLESS EFFECTS

Frax is based on Delta Light's LED Caset® technology, which combines multiple LEDs with individual collimator lenses per LED to generate a clean-cut light distribution.

to generate a clean-cut light distribution.

The individual lenses create a multi-layered light distribution to generate a clean 8° or 14° beam angle. Be it for the Small version or the high-power Medium Frax, by concentrating the lenses together, the light distribution will be the same thanks to the multi-layering process.

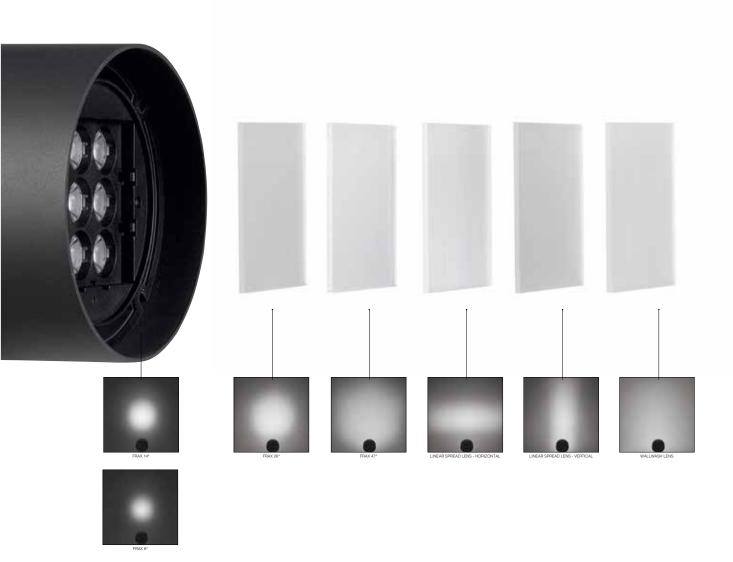
Microlens

With its 7 different light distributions, Frax is the all-round projector. The 8° and 14° versions serve as the base models of the Frax family. Adding a microlens to Frax 14° results in a 26° or 47° beam angle.

These microlenses can not only be used to generate a different beam angle, also specific lighting effects can be created by putting an additional lens into the luminaire. Specific lenses can be used to generate a wallwash effect or to create a horizontal or vertical elliptical effect.

Besides the easiness of creating different light effects, these inhouse developed microlenses are designed to have an evenly spread light distribution for all beam angles, resulting in a scallops-free light effect.

With a good Colour Over Angle uniformity, the microlenses also reduce the colour shift that occurs when comparing the center of the distributed light with the edges.





MADE FOR

Harsh Environments

With its multitude of optical solutions and its multiple ways of installing, Frax can be applied in many different settings to fulfill various kinds of lighting needs. To ensure a hassle-free answer to the diverse application areas, Frax is designed to perfection in every detail.

Watertight IP65 luminaire thanks to silicone seal

 $\mbox{\bf IK06}$ thanks to 5mm thick glass for Frax S $\mbox{\bf IK08}$ thanks to 8mm thick glass for Frax M

UV-resistant components for extended lifespan

D-Lock: in-house designed safety to prevent failure due to overheating, overvoltage or humidity entering the luminaire

No visible cable coming out of the luminaire as all cabling runs through the hinge

Optimized **flexibility:**Tilting up to 120° & Rotating up to 360°

Reliable in extreme weather conditions: from -25° up to 45°





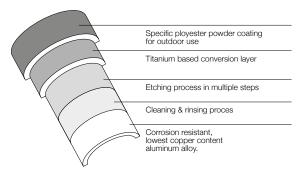








Delta Light® maintains the highest standards both in material choice and in the coating process, to offer superb and durable anti-corrosion protection. Which is approved and confirmed by the 1000h filiform corrosion test.



Installation made easy

Apart from the extensive optical possibilities, Frax also offers a range of different mounting options. Standard, the luminaire comes on a round base, but one can also opt to install the luminaire head on a pin, on a strap or on a simplified bracket. In this way, Frax can easily be transformed to install in between the green, around a tree, a pole or any other surface.



Visual Well-Being

Frax not only cares about the perfect light effect, it takes care about the passer-by as well. Frax can be provided with an additional honeycomb or a kap to reduce the possibility from directly looking into the light source. Both of them reduce any undesired light effect and the glare associated with it.



ADD FRAX HONEYCOMB TO REDUCE GLARE

Frax Honeycomb is used as a small grid to put in front of the optical part of the luminaire. The small frames reduce the minimum of remaining spill light in all directions and the glare associated with it. The hexagonal openings make sure a minimum of efficiency is lost when adding the honeycomb



Fine to Combine

The design philosophy behind Frax has lots of touchpoints to what Polesano stands for: an instrument for the designer to use in urban and landscape settings. Modularity, flexibility and functionality combined with aesthetics: several characteristics that fit both lighting tools, making it easy to complement each other in any urban or landscape project.



Architectural Project Dino Krizmanić, Leonid Zuban (Urbis) Lighting Design Dean Skira (Skira) / Photography Jan Stojkovic / Pula - Croatia

With a wide range of optics, meticulous precision and a multitude of installation options, Frax is a toolbox to bring buildings, monuments and cities to life.



FRAX SB BRACKET

14° + Linear Spread Lens Vertical Illumination of the window compartment



LOGIC R

illumination of the window compartment on ground level



FRAX M

14° & 26° Illumination of the classical building facade



FRAX SB PIN

Ilumination of trees & bushes



FRAX SB BRACKET 8° Superspot Illumination of the columns



FRAX M Wallwash

Illumination of the top façade



FRAX S Wallwash

Illumination of the top façade



POLESANO Street Lighting

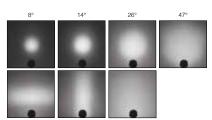


FRAX MB STRAP

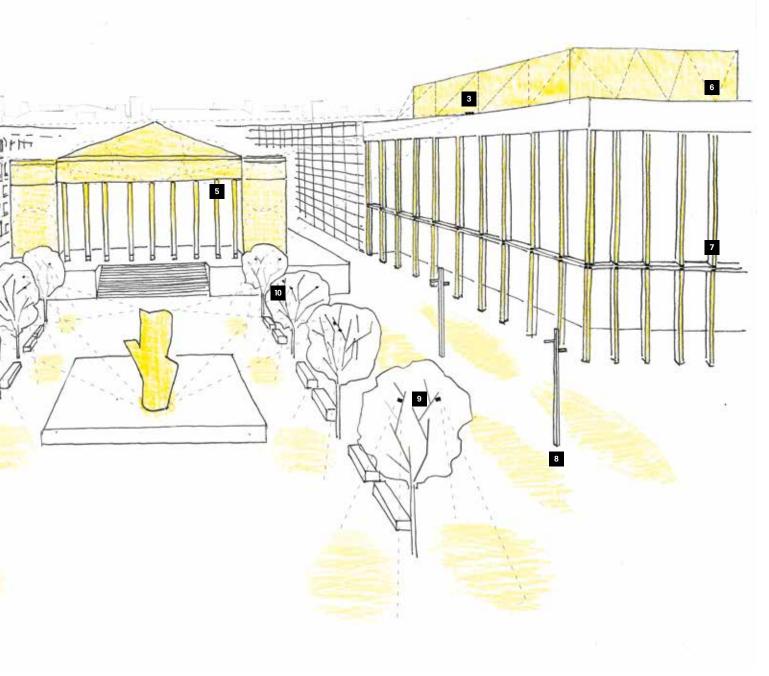
26° General lighting of the square



FRAX MB STRAP
14° + Linear Spread Lens Vertical Illumination of the sculpture





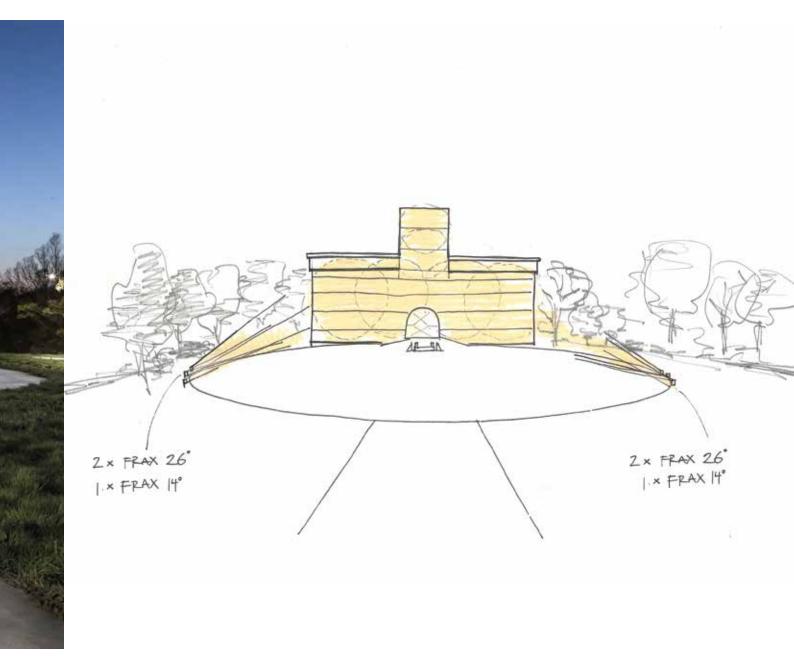




This 'contemporary abbey' is designed by Ghent-based architecture studio Dhooge & Meganck as a factory and storage facility for Camp's, a Belgian producer of traditional pickles, mustard and preserved vegetables.

Frax enables to illuminate this fantastic piece of architecture, emphasizing its unique character. To limit the visual impact of the architectural facade, using a wallwash was not an option. Instead 6 Frax projectors evenly light up the building from a distance, a combination of power and optical precision.

Dhooge & Meganck Architecture / Camps







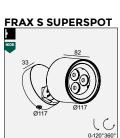






	3000K / CRI>90				
	LED CLUSTER 7,9W / 867lm / 700mA				
	14° 26° 47°				
NO ACCESSORY	26001 9310 ◊	26001 9360 ♦	26001 9380 ♦		
HONEYCOMB	26001 9320 ◊	26001 9370 ◊	26001 9390 ◊		
LINEAR V	26001 9330 ◊	-	-		
LINEAR H	26001 9340 ♦	-	-		
WALLWASH	26001 9350 ♦	-	-		
	♦A/N				
	220-240V / 50-60Hz				

(i) [1,5] IP65



	3000K / CRI>90				
	LED CLUSTER 5,9W / 650lm / 700mA				
	8°				
NO ACCESSORY	26101 9310 ♦				
HONEYCOMB	26101 9320 ♦				
	♦A/N				
	110-240V / 50-60Hz				

(i) [1,5] IP65

ACCESSORIES
FRAX ANTI VANDAL SCREWS 5 PCS ➤ 26070 0030
FRAX S KAP ➤ 26070 0010 N



	3000K/CRI>90					
	LED CLUSTER 23W / 2390lm / 900mA					
	14° 26° 47°					
NO ACCESSORY	26011 9310 ◊	26011 9360 ♦	26011 9380 ◊			
HONEYCOMB	26011 9320 ◊	26011 9360 ♦	26011 9390 ◊			
LINEAR V	26011 9330 ◊	-	-			
LINEAR H	26011 9340 ◊	-	-			
WALLWASH	26011 9350 ◊	-	•			
	♦A/N					
_	220-240V / 50-60Hz					

() 2,4 IP65



	3000K / CRI>90				
	LED CLUSTER 17,9W / 1859lm / 900mA				
	8°				
NO ACCESSORY	26111 9310 ♦				
HONEYCOMB	26111 9320 ♦				
	♦ A / N				
	220-240V / 50-60Hz				

(i) 2,4 IP65

ACCESSORIES
FRAX ANTI VANDAL SCREWS 5 PCS > 26070 0030
FRAX M KAP > 26070 0020 N





	3000K / CRI>90					
•	LED CLUSTER 7,9W / 867lm / 700mA					
	14° 26° 47°					
NO ACCESSORY	26000 9310 ◊	26000 9360 ♦	26000 9380 ♦			
HONEYCOMB	26000 9320 ◊	26000 9370 ♦	26000 9390 ◊			
LINEAR V	26000 9330 ◊	-	-			
LINEAR H	26000 9340 ◊	-	-			
WALLWASH	26000 9350 ◊	-	-			
	♦N					
	220-240V / 50-60Hz					

INCL.1 x CABLE H05 RN-F 3 x 1mm² 2m

(i) [1,3] IP65



	3000K / CRI>90				
	LED CLUSTER 5,9W / 650lm / 700mA				
	8°				
NO ACCESSORY	26100 9310 ♦				
HONEYCOMB	26100 9320 ◊				
	♦N				
	110-240V / 50-60Hz				

INCL.1 x CABLE H05 RN-F 3 x 1mm² 2m

() [1,3] IP65

REQUIREMENTS FRAX BRACKET

or FRAX STRAP (max. Ø250mm)

or FRAX PIN

ACCESSORIES FRAX ANTI VANDAL SCREWS 5 PCS ➤ 26070 0030 FRAX S KAP ➤ 26070 0010 N



	3000K / CRI>90				
	LED CLUSTER 23W / 2390lm / 900mA				
	14° 26° 47°				
NO ACCESSORY	26010 9310 ♦	26010 9360 ♦	26010 9380 ◊		
HONEYCOMB	26010 9320 ♦	26010 9370 ◊	26010 9390 ♦		
LINEAR V	26010 9330 ◊	-	-		
LINEAR H	26010 9340 ♦	-	-		
WALLWASH	26010 9350 ◊	-	•		
	♦N				
	220-240V / 50-60Hz				

INCL.1 x CABLE H05 RN-F 3 x 1mm² 2m

(I) [2,1] IP65

3000K / CRI>90

FRAX MB SUPERSPO	T
Й Ø153	
	١.
87	١.
0-120°360	0

	LED LED CLUSTER 17,9W / 1859lm / 900mA			
	8°			
NO ACCESSORY	26110 9310 ♦			
HONEYCOMB	26110 9320 ◊			
	♦N			
	220-240V / 50-60Hz			

INCL.1 x CABLE H05 RN-F 3 x 1mm² 2m

(i) [2,1] IP65

REQUIREMENTS FRAX BRACKET or FRAX STRAP (max. Ø250mm) or FRAX PIN

ACCESSORIES
FRAX ANTI VANDAL SCREWS 5 PCS ➤ 26070 0030
FRAX M KAP ➤ 26070 0020 N

