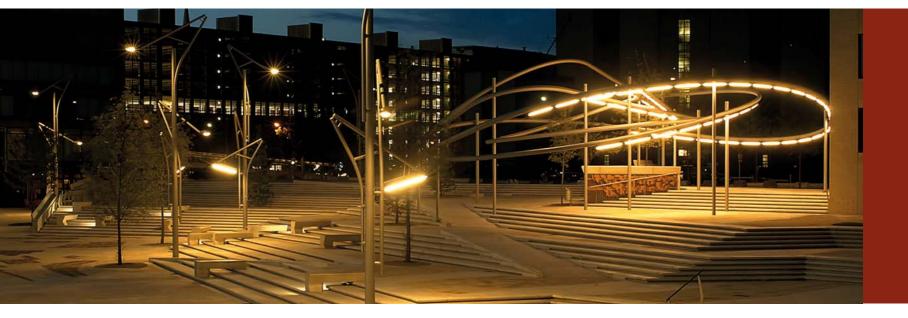






Complete and multi-functional range in a modern timeless design and with highly valued concepts like Double Ingress Protection (DIP), Controlled Breathing Technology (CBT) and Safe Maintenance Technology (SMT).

Applications Consult pages 16-19 Lamps High pressure sodium up to 400W (SE) up to 600W (ST) Quartz metal halide up to 400W Ceramic metal halide up to 250W Compact fluorescent up to 57W (FSM) up to 120W (FSM6H) Fluorescent induction up to 165W





Arc 80 Polycarbonate Bowl



Arc 80 and 90 Curved Glass



Arc 80 and 90

Flat Glass





Arc 80 Arc 90 Arc 80 and 90 Side entry and post top mounting

Arc COMPONENTS

version SIP

Ingress Protection

- 1 **SIP** total lantern IP 66 by main silicon gasket.
- 2 DIP additionally sealed lamp compartment with silicon seals between reflector and bowl/ lampholder cap.
- 3 **CBT breathing system** using filters (3a) and labyrinths (3b), to avoid detrimental condensation.

Optical System

High purity aluminium multifacetted 3D reflectors.

4 SIP reflector mounted to and hinging upwards with canopy (4a), lamp holder bracket facilitating horizontal and vertical lamp position adjustment (4b).

DIP reflector sealed to bowl/frame (4c), lamp holder bracket contained in bayonet cap, enabling horizontal/vertical lamp position adjustment and easy lamp replacement.

Optics for full range of lamps up to 600W.

ExaCT-Performer or ExaCT-Comfort micro optic DIP for ceramic metal halide lamps up to 150W.

5 **Tilt adjustment** integrated in spigot (+50, +100 post top; -50,-100 side entry).

Special optics for pedestrian crossings and cycle paths available (SIP only).

Anti-glare shields also for retrofit use available.



COMPONENTS



- 6 **Bowl** toughened curved glass, flat glass or UV stabilized polycarbonate bowl (Arc 80 only).
- 7 **Canopy/frame** upper canopy (7a) and lower frame (7b) in die-cast aluminium (LM6) standard RAL 9007 (other colours on request).
- 8 Mounting system reversible spigot of die-cast aluminium (LM6) in same colour as canopy/frame, for post top Ø 60-76mm and side entry Ø 60mm (32-34-42-48mm with adapter). Column mounting with two stainless steel M10 bolts.
- 9 Opening/closing stainless steel closing clip fixed at front of frame (9a); canopy hinges upwards and has a safety catch to keep it in a fixed position during maintenance (9b).
- 10 **Disconnector SMT** automatic power disconnection when cover is opened.
- **11** Gear tray composite material, removable without tools by plug/socket connectors and two stainless steel retaining clips; some electronic gear and 600W gear on aluminium gear tray (fixed to frame by 2 screws).

Control gear electromagnetic or electronic depending on lamp type/wattage; electromagnetic gear for metal halide standard with timed ignitor; bi-power ballasts and dimming systems on request; versions with mini-Photocell, NEMA socket or pre-wired for cell.

12 Cable connection M20 gland with strain relief, for 7-12mm cable diameter.

Insulation Class II as standard, for Class I earth wire to be connected on special stud.



Universal mounting system Arc can be mounted on all common column diameters in a versatile way.



Mounting side entry Ø 60mm Adapter for Ø 32-48mm.





the spigot. The central spigot bott and turning the spigot. The central spigot plate has to be put in post top or side entry position, and in the required tilt angle (post top $0^{\circ},+5^{\circ},+10^{\circ}$; side entry $0^{\circ},-5^{\circ},-10^{\circ}$).





Fixing to column

Fixing to column is with two M10 bolts (for fixing on widest column diameters shorter bolts are available on request).





CHARACTERISTICS

High performance optical systems



Arc80-S Symmetrical optic for all Arc 80 lamps.



Arc90-S Symmetrical optic for all Arc 90 lamps.



Arc80-A and Arc90-A Pedestrian crossing Asymmetrical optic for high pressure sodium lamps up to 150W (Arc 80) or 250W (Arc 90), in right hand drive (RHD) or left hand drive (LHD) version (only in SIP protection).



Arc80-B Cycle path Symmetrical wide beam optic for high pressure sodium lamps up to 70W (only in SIP protection).



ExaCT-Performer Symmetrical micro optic for ceramic metal halide lamps up to 150W; for optimisation of spacings (only in DIP protection).



ExaCT-Comfort Symmetrical micro optic for ceramic metal

halide lamps up to 150W; for minimisation of glare and upward light (only in DIP protection).

Anti-glare shields

For further reduction of obtrusive forward or backward light special anti-glare shields are available in two sizes, which can also be used retrofit.



Lamp position adjustment

The light distribution of the optics can be more specifically adapted to the road geometry and/or the required results by adjusting the lamp position in horizontal or vertical (Arc80/90 optics only) direction. The available positions are clearly given in the photometric data.

1 - wide beam
4 - narrow beam
A - wide street





Lamp holder SIP.



Lamp holder DIP.

Basic Bowl/Glass versions



Polycarbonate bowl version for max. impact/vandal resistance at lower mounting heights.



Curved glass version for general high performance lighting (max. spacing).



Flat glass version for max. glare and upward light limitation.

Arc CHARACTERISTICS

Total protection of optics and components



SIP (Single Ingress Protection) The overall lantern has an IP 66 protection against the ingress of dust and moisture. On opening the lantern the optics hinge upwards with the canopy.

Safe and easy installation and maintenance



DIP (Double Ingress Protection) In addition to the overall IP 66 protection of the lantern, the lamp compartment is separately protected by sealing the reflector to the glass/bowl, for an extra guarantee of the lighting performance over a long period of time.





Controlled Breathing Technology (CBT) By a serie of filters and labyrinths the build up of detrimental moisture and dirt is avoided in both lamp and component compartments.



With the stainless steel closing clip Arc can be opened and closed easily and without the use of tools.



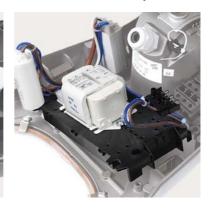
When opened, the canopy is kept in a fixed position by a stainless steel safety catch.



Safe Maintenance Technology (SMT) On opening the lantern, a switch automatically disconnects the power allowing safe access to the components. After entry of the main cable through the cable gland, the cable is connected to this safety switch.



Both in SIP and DIP versions lamp replacement is done within seconds.

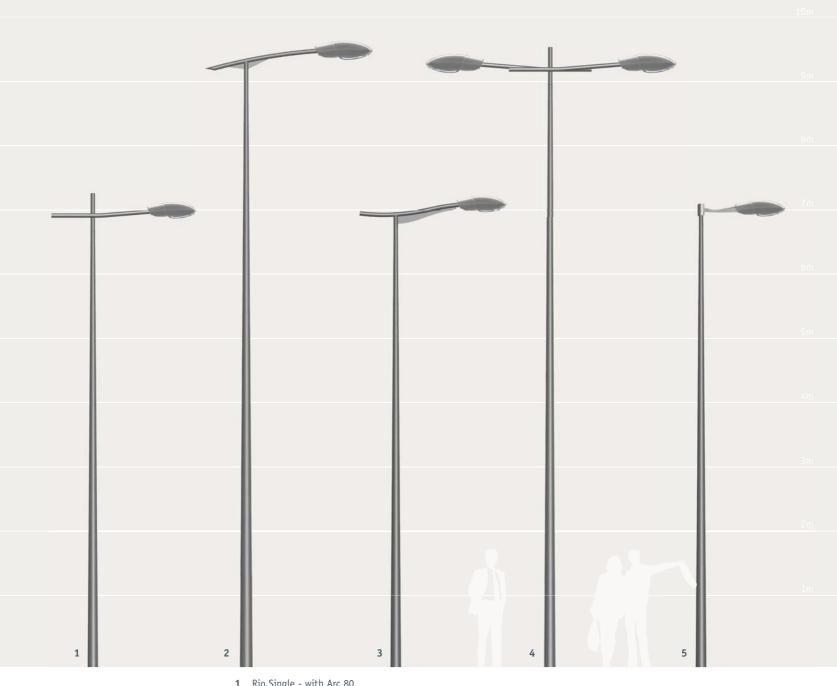


The gear tray with the components can be removed without the use of tools by disconnecting the plug and socket connection on the lamp side and pressing the stainless steel clips.

SETS & BRACKETRY

Arc

For a further integration of lantern and column towards a more decorative arrangement, a number of standard brackets is available. Some examples are shown here.

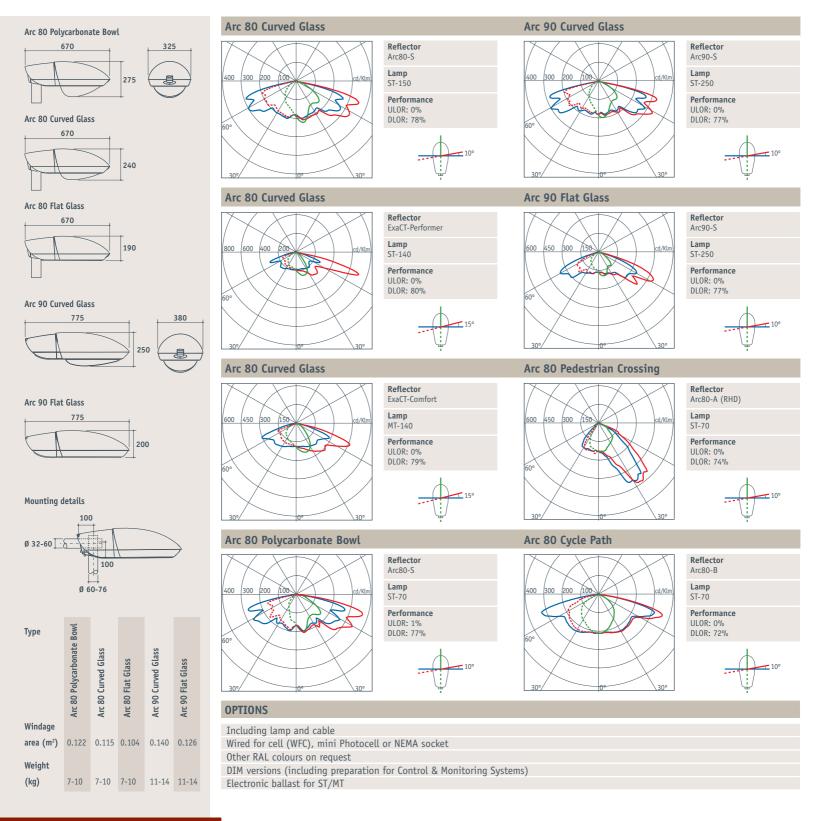


Rio Single - with Arc 80
Sao Paulo - with Arc 90

3 Salvador - with Arc 80

4 Rio Twin - with Arc 90 5 Arc-Lux die-cast aluminium - with Arc 80

Arc DIMENSIONS & PHOTOMETRY



MODELS

MODEL	ТҮРЕ	SHAPE	LAMP HOLDER		BOWL				R	REFLECTOR			
				Curved Glass	Flat Glass	PC Bowl	Arc80-S Symm. (SNN)	Arc90-S Symm. (SNN)	ExaCT Performer (PNN)	ExaCT Comfort (CNN)	Arc80-A Asymmetric Pedestrian Crossing (only SIP) (ANN)	Arc90-A Asymmetric Pedestrian Crossing (only SIP) (ANN)	Arc80-A Cycle Path (only SIP) (BNN)
	CT FO		507								(RHD OR LHD)	(RHD OR LHD)	
Arc 80	ST-50		E27	•	•	•	•				•		•
SIP or DIP	ST-70		E27	•	•		•				•		•
	ST-100 ST-150		E40 E40	•	•	•	•				•		
	SE-50	\bigcirc	E27	•	•	•	•				•		
	SE-70	\circ	E27	•	•	•	•						
	SE-100	\sim	E40	•	•	•	•						
(only SIP)	SE-150	\sim	E40	•	•	•	•						
(only our)	MT-50		E27	•	•	•	•				•		•
	MT-70		E27	•	•	•	•				•		•
	MT-100		E40	•	•	•	٠				•		
	MT-150		E40	•	•	•	•				•		
	ME-70	\bigcirc	E27	•	•	•	٠						
	ME-100	\bigcirc	E40	•	•	•	٠						
(only SIP)	ME-150	\bigcirc	E40	•	•	•	•						
	MT-45		PGZ12	•	•	•	•		•	•			
	MT-60		PGZ12	•	•	•	٠		•	•			
	MT-90		PGZ12	•	•	•	٠		•	•			
	MT-140	:	PGZ12	•	•	•	•		•	•			
	MT-35		G12	•	•	•	•		•	•			
	MT-70		G12	•	•	•	•		•	•			
	MT-150		G12	•	•	•	•		•	•			
	FSM-26/32/42		GX24q-3/4	•	•	•	•						
	FSM-57		GX24q-5	•	•	•	•						
	FSM6H-60		2G8-1	•	•	•	•						
	FSM6H-85		2G8-1	•	•	•	•						
(only SIP)	FSG-55		Twist Base	•	•	•	•						
(only SIP)	FSG-85	\mathbf{Q}	Twist Base	•	•	•	•						
Arc 90	ST-150		E40	•	•			٠				•	
SIP or DIP	ST-250		E40	•	•			•				•	
	ST-400		E40	•	•			٠				•	
	ST-600		E40	•				•					
(only SIP)	SE-150	\bigcirc	E40	•	•			٠					
(only SIP)	SE-250	\bigcirc	E40	•	•			•					
(only SIP)	SE-400	\bigcirc	E40	•	•			•					
	MT-150		E40	•	•			•				•	
	MT-250		E40	•	•			•				•	
(only SIP)	ME-150	\bigcirc	E40	•	•			•					
(only SIP)	ME-250		E40	•	•			•					
	FSM6H-120 MT-400		2G8-1 E40	•	•			•				•	
(only SIP)	MT-400 ME-400	\bigcirc	E40 E40	•	•			•				•	
(only SIP) (only SIP)	FSG-165	$\widehat{\mathbf{Q}}$	Twist Base	•	•			•					
(Unity SIF)	120-103	¥	IWISC Dase	-	-			-					

For more information about lamps, consult pages 486-489.

seattle medium

Floodlighting Building facades Car parks Security Service yards

Sports facilities

Retail parks

The Seattle Medium Floodlight combines functionality and performance within a compact design. Its durable construction coupled with a choice of optical arrangements provides a lighting solution that meets today's requirement for controlled non-obstrusive light. The Holophane Seattle Floodlight range remains at the forefront of technological advancements that led to the development of the new Seattle Medium Flood. This more compact product combines the positive attributes of the existing Seattle Large Flood but further embodies the ability to provide a cost effective and 'complete lighting solution'.



features and benefits

Contemporary and compact styling

> Aesthetic appeal

Robust construction

> Durability

Latch for tool-free opening

> Easy maintenance

Asymmetric light distributions

> Maximum efficiency for a wide range of applications

Choice of mounting arrangements

- > Flexibility of use
- > Available with a range of Holophane columns and brackets

lamp types included

150W - 400W High Pressure Sodium

- 150W 400W Ceramic Metal Halide
- 250W 400W Quartz Metal Halide

IP rating IP659 🗞 🔊 👘

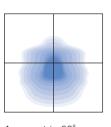
approvals Complies with EN60598



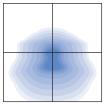


specification

The luminaire shall consist of a two-piece diecast aluminium body and door frame with a maximum depth of 172mm, housing all integral control gear for a variety of high intensity discharge lamps. The body and door frame shall be hinged and sealed together by a closed-cell silicon gasket and secured by a single tool-free latch, ensuring an IP rating of 659. The optical assembly shall consist of a specular aluminium reflector and fully tempered clear front glass sealed to the door frame. The luminaire complies with EN60598 and can be mounted by means of a spigot adaptor or stirrup bracket for variable mounting orientations. A range of bracketry and columns is available with a wide choice of options and accessories.



Asymmetric 60°



Photometric data is available at www.holophane.co.uk

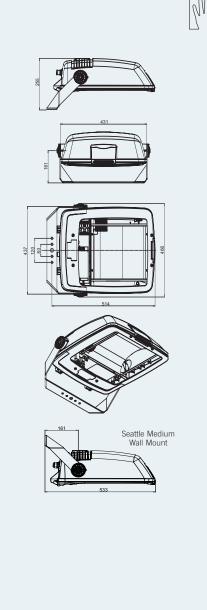
windage

Code	
Seattle Medium	0.084m ²

weights & thermal data

Lamp Type	Weight	Min Operating	Max Ambient
	(kg)	Temperature (°C)	Temperature (°C)*
250W, 400W Metal Halide	13.5	-20	35

*The maximum ambient temperatures stated are for exterior use only. For interior use deduct 10° C from the temperature stated

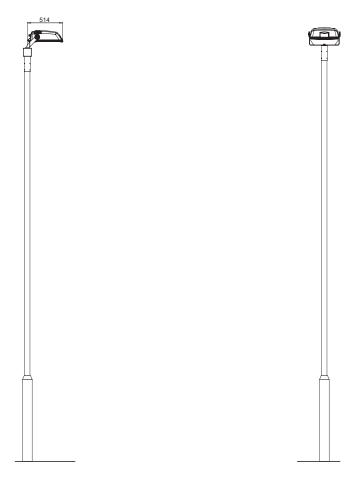


Note: The specifications of the Holophane luminaire and columns represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.

10.4

floodlighting

mounting arrangements



Galvanised steel stirrup option mounted on a SMFB tubular base compartment column

stirrup

 $0^{^\circ}$ Angle Minimum

AUUUU AC

Column Mount

2

ordering details : luminaire

SMF	Seattle (Med	lium)				
	Code	Lamp Typ	e			
	.250CDMT3	250W Clea	ar CDM-T3000	0K ceramic me	etal halide lam	np (E40) base
	-	Code	Light Dist	ribution		
		.AY60	Asymmetr	ic distribution	(60° peak bea	am)
			Code	Enclosure		
			.FLG	Flat Glass		
				Code .GS	Fixing Me	etnoa ed steel stirrup
				.00	Code	Colour
					.C9	Silver (RAL 9006)

luminaire accessories

order separately for on site installation by others

Code	
SMF.AGL	Holophane Seattle anodised aluminium anti-glare galvanised
	steel anti glare cowl (black)
SMF.VRG	Holophane Seattle vandal resistant guard (black)

10.5

ordering details : columns & brackets

Code SMFB SMFC SMFMH	Seattle Flo	e Flood Tubular Base Compartment Column e Flood Conical Steel Column e Flood Conical Steel Mid Hinged Column								
	Code .6	Luminaire 6 metres	e Mounting H	eight						
		Code .GS	Suspensi	on ed steel stirrup	for CS option	2)				
		.00	Code	No. of Lu		1/				
			.1A		ad for .GS opt	ion only				
				Code .LMZ	Column C Medium c		rain category 3	& 4 as per EN40		
					Code	Bracket C	Colour			
					.09	Metallic S	ilver (RAL 900	6)		
						Code .FB1 .FB2 .FB3	Optional E Flange bas Flange bas Flange bas	se se		
							Code .C .P1 .P2	Optional Paint Enhanced paint finish† Black undercoat primed Undercoat primed**		

* Please specify RAL colour reference. ** Match RAL colour specific. † Not with SMFMH. †† Bracket only.

 **** 3A and 4A only available with SMFB column.

Examp

columns & brackets accessories

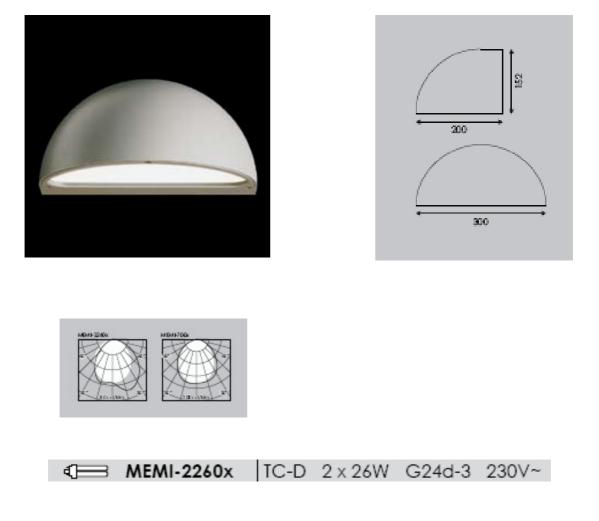
order separately for on site installation by others

Code Tubular Base Compartment Column (SMFB)

HEL.CBEPAC Cut Out Box and Earth Plate for Armoured Cable*

*please contact Holophane for details

Selux MEMI 2260x



Surface wall mounted light fixture, applicable as down- or uplight, die-cast aluminium body coated, gaskets in silicone, stainless steel screws, reflector in aluminium inside, satined glass, integrated power supply in the version for compact fluorescent and metal halide lamp, one cablegland.



Type D is mounted at 3m Type DE s D but with remote emergency battery back up Type E as D but mounted at 2.5m

selux

Cus. Sec. Hou. Tra. Urb.

Parkalux T5





- Suitable for ceiling and semi recessed mounting.
- Zinc-coated steel body finished in black polyester powder coat.
- Clear patterned polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.

Finishes



1220mm L	.ONG
----------	------

LINEAR FLUORESCENT	Lamps	Rating	Temp	Load	Lum/lms	Efficacy	Weight
--------------------	-------	--------	------	------	---------	----------	--------

D333/149T5/B 1 x 49W T5 4375lm N/A 54W 2993lms 56lm/W 5KG

FITTING OPTIONS

Integral 3 hour duration emergency add suffix /EM3

FE has integral emergency

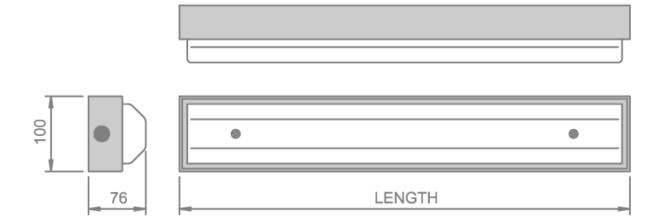


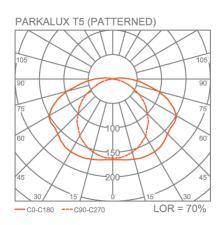
IP65 upgrade

add suffix /IP65



Section drawings





Polar curves





astro







Gemini





• Suitable for wall or ceiling mounting.

- Zinc coated steel body finished in black polyester powder coat.
- Injection moulded clear prismatic polycarbonate diffuser held against gasket by tamperproof screws.
- Electronic control gear on removable tray with fused plug & socket connector block.
- Provision for conduit entry in back and at ends, gaskets provided.

Finishes



LAMP OPTIONS

PRISMATIC DIFFUSER										
LED	Lamps	Rating	Temp	Load	Lum/lms	Efficacy	Weight			
D215/1800NW/PB	LED Array	1800lm	4000K	21W	1559lms	75lm/W	2.5KG			

FITTING OPTIONS

Integral 3 hour duration emergency add suffix /EM3 (deeper body)

HE has integral emergency



IP65 upgrade

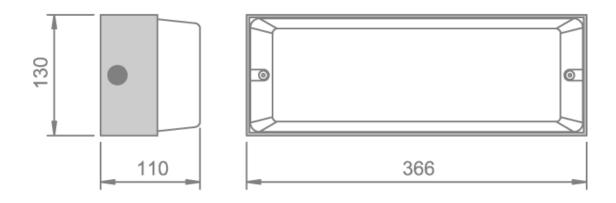
add suffix /IP65



2/3

Section drawings





Polar curves

