A projector which, in addition to advanced lighting performance, uses the language of forms to play a leading role in street furniture.

A new outdoor projector, which immediately reveals important and original design elements. Going beyond the minimalism of certain types of design - oriented to the mere function of the luminaire, as a neutral container of light - Nut rediscovers the pleasure that originates from seeing an object with beautiful, smooth and harmonious lines and an essential shape.
Inspired by organic design, Nut, like a nutshell, is defined by the sinuous curves of its body. Its harmonious and proportionate structure suggests a natural and balanced dimension of artificial light in the constructed environment: the effect is reassuring, elegant and relaxing. Nut is indicated for illuminating large outdoor areas, building facades and streets, as it can be installed on the ground, on the wall and on a pole.

DESIGN - **STEFANO DALL'OSSO**

Technical specifications

The Nut outdoor projector is extremely flexible in its applications.

It is provided by Quattrobi in two different sizes (height: 415 and 615 mm), for specific installations and uses. It is equipped with a range of accessories for wall, ground and pole mounting, with solutions that allow to install multiple overlaying lighting elements.

The projector is entirely made of die-cast aluminium and is fitted with a front louver in high-resistance tempered glass.

The reflector is made of super-pure oxidized and polished aluminium, with spot, superspot, medium, flood, road, symmetrical and asymmetrical optical components. Gaskets are of silicone material and screws of stainless steel.

▢ II insulation class guarantees maximum safety.

The hot-galvanised and coated steel poles, to be mounted on the ground or with fixing plate, are available in three different heights (4000 - 6000 - 9000 mm) and are provided with cable inlet slot, earthing connection, electrical equipment slot. The projector uses metal halide discharge lamps and is supplied with a PF-corrected electromechanical ballast. With UV stabilised epoxy-polyester coat finish, Nut is available in grey and anthracite standard colours. Thanks to the materials used and to the special structural solutions, the luminaires of the Nut line are weatherproof and can be installed even in severe environmental settings.

Optical components and light sources

Different types of optical components are available for Nut: spot, superspot, medium, flood, road, symmetrical and asymmetrical. The light sources used by the projector are metal halide discharge lamps (70W, 150W and 250W - G12; 60W - 140W - PGZ12; 70W - 150W - Rx7s; 250W - Fc2).

DISCHARGE LAMPS		
	MT (CDM-T) - G12	70W
	MT (CDM-T) - G12	150W
	MT (CDM-T) - G12	250W
	MD (CDM-TD) - RX7s	70W
	MD (CDM-TD) - RX7s	150W
	MD - Fc2	250W
	PGZ12	60W
	PGZ12	140W

Accessories

The luminaire is equipped with a range of accessories for wall and pole mounting, as well as with wall-washer louvers and anti-glare shields, directional louvers, anti-vandalism protection grid.

Road optical components according to Rule CEI EN 13201
Lane width 5 m – Lamp power 70w
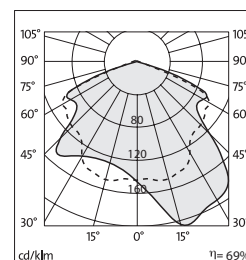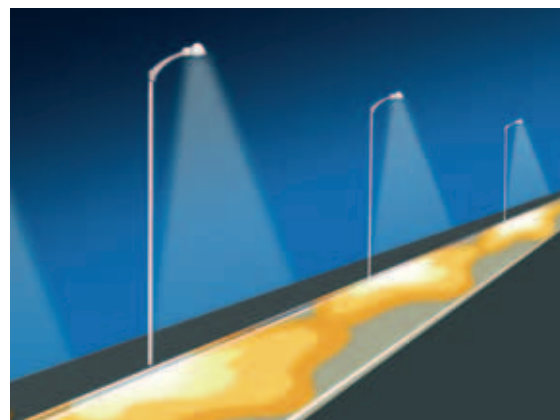Distance between poles 27 m – Lamp mounting height 6.4 m
I/H ratio = 4.2
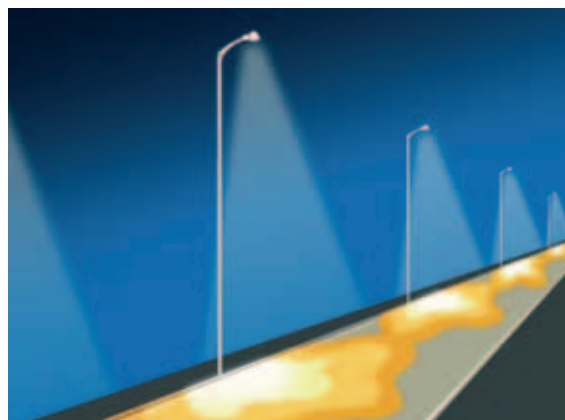
PHOTOMETRIC REQUIREMENTS			
L_m [cd/m²]	UO	UI	TI [%]
REAL VALUES			
0.6	0.38	0.4	5
NOMINAL VALUES ACCORDING TO CLASS ME5			
≥0.5	≥0.35	≥0.4	≥15

Bike lane optical components according to Rule CEI EN 13201
Lane width 3 m – Lamp power 70w
Distance between poles 21 m – Lamp mounting height 4.3 m
I/H ratio = 4.9

PHOTOMETRIC REQUIREMENTS	
E_m [lx]	E_{min} [lx]
REAL VALUES	
22	3
NOMINAL VALUES ACCORDING TO CLASS S4	
≥5	≥1

NUT

Structural features

Installation: floor, wall and pole

Luminaire housing: die-cast aluminium

Louver: tempered glass

Reflector: super-pure oxidised and polished aluminium

Optical components: spot, superspot, medium, flood, road, symmetrical and asymmetrical

Light sources: metal-halide discharge lamps

Accessories: base and wall/pole fixing supports, wall-washer shields, anti-glare shields, directional louvers, anti-vandalism protection grid

Standard finishing: grey, anthracite

Protection class: IP65

Insulation class: II □

Power supply: 230V -50Hz

Adjustable projector for metal halide discharge lamps.
Complete with power-factor-corrected electromechanical ballast
Front louver in tempered glass.

| CODE	NUT Small version		
2735	**Superspot optical component 2 x 2.5° - with bracket** MT (CDM-T) - 70W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		102 CE
2734	**Spot optical component 2 x 5°- with bracket** MT (CDM-T) - 70W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		101 CE
2736	**Medium optical component 2 x 15° - with bracket** MT (CDM-T) - 70W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		103 CE
2737	**Flood optical component 2 x 30° - with bracket** MT (CDM-T) - 70W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		104 CE
2738	**Road optical component - without bracket** MT (CDM-T) - 70W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		CE
2730 2732	**Symmetrical optical component - with bracket** **Symmetrical optical component - without bracket** MD (CDM-TD) - 70W - RX7s 230V - 50Hz Colour: 18 - 19 - IP 65		CE
2731 2733	**Asymmetrical optical component - with bracket** **Asymmetrical optical component - without bracket** MD (CDM-TD) - 70W - RX7s 230V - 50Hz Colour: 18 - 19 - IP 65		CE
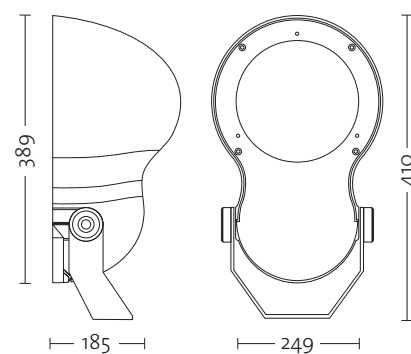
ACCESSORIES

	NUT small	NUT medium
Wall-washer shield	690	695
Anti-vandalism protection grid	691	696
Lens for elliptical light beams	692	697
Lens for circular light beams	693	698
Anti-glare shield	694	699

PHOTOMETRIC CURVES

101

H(m)	D1(m) 2x2.5°	D2(M) 2x2.5°	Lux (med)	Lux (max)
1	0.08	0.08	196150	32691
2	0.16	0.16	15000	25000
3	0.26	0.26	7080	11800
4	0.34	0.34	3480	5800
5	0.4	0.4	1770	2954

MT (CDM-T) 70W - G12

102

H(m)	D1(m) 2x5°	D2(M) 2x5°	Lux (med)	Lux (max)
1	0.3	0.3	30151	50251
2	0.6	0.6	6600	11000
3	0.8	0.8	3120	5200
4	1	1	1440	2400
5	1.2	1.2	714	1190

MT (CDM-T) 70W - G12

103

H(m)	D1(m) 2x15°	D2(M) 2x15°	Lux (med)	Lux (max)
1	0.5	0.5	3300	5500
2	1	1	1610	2683
3	1.6	1.6	915	1525
4	2	2	556	926
5	2.3	2.6	364	607

MT (CDM-T) 70W - G12

104

H(m)	D1(m) 2x30°	D2(M) 2x30°	Lux (med)	Lux (max)
1	1.16	1.16	2931	4884
2	2.3	2.3	587	979
3	3.46	3.46	244	407
4	4.62	4.62	133	221
5	5.78	5.78	83	139

MT (CDM-T) 70W - G12

389
410
185
249

Size (mm)

18 grey
19 anthracite
All luminaires are equipped with PF-corrected electromechanical ballast.

NOTE

Adjustable projector for metal halide discharge lamps.
Complete with power-factor-corrected electromechanical ballast.
Front louver in tempered glass.

NUT

DESIGN - **STEFANO DALL'OSSO**

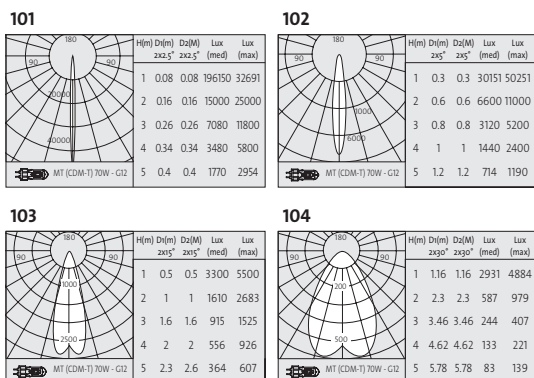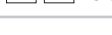| CODE	NUT Medium version		
2750 2752	**Symmetrical optical component - with bracket** **Symmetrical optical component - without bracket** MD (CDM-TD) - 150W - RX7s - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2751 2753	**Symmetrical optical component - with bracket** **Symmetrical optical component - without bracket** MD - 250W -Fc2 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2754 2756	**Asymmetrical optical component - with bracket** **Asymmetrical optical component - without bracket** MD (CDM-TD) - 150W - RX7s 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2755 2757	**Asymmetrical optical component - with bracket** **Asymmetrical optical component - without bracket** MD - 250W -Fc2 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2760 2758 2762 2764	**Superspot optical component 2 x 2.5° - with bracket** **Spot optical component 2 x 5°- with bracket** **Medium optical component 2 x 15° - with bracket** **Flood optical component 2 x 30° - with bracket** MD (CDM-T) - 150W - G12 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2761 2759 2763 2765	**Superspot optical component 2 x 2.5° - with bracket** **Spot optical component 2 x 5°- with bracket** **Medium optical component 2 x 15° - with bracket** **Flood optical component 2 x 30° - with bracket** MT (CDM-TD) - 250W - G12 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2766	**Road optical component - without bracket** MT (CDM-T) - 150W - G12 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2767	**Road optical component - without bracket** MT (CDM-T) - 250W - G12 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2771 2768	**Road optical component - without bracket** 45W - PG12 60W - PGZ12 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2770 2769	**Road optical component - without bracket** 90W - PG12 140W - PGZ12 - 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
2772	**Road optical component - without bracket** 70W - SE - E27 230V - 50Hz Colour: 18 - 19 - IP 65		□ ☒ CE
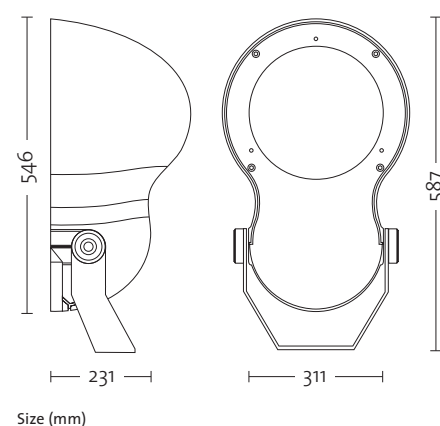
546

587

231

311

Size (mm)

18 grey

19 anthracite

All luminaires are equipped with PF-

corrected electromechanical ballast.

NOTE

Brackets for pole head mounting.

CODE	DESCRIPTION
	Bracket for pole head mounting
	Single support for one spotlight.
	Pole head mounting
	Steel sheet with epoxy polyester coat finish.
	Stainless steel screws
	Colour: 19
	NUT Small
320	Single support, short
300	Single support, medium
301	Single support, long
	NUT Medium
321	Single support, short
302	Single support, medium
303	Single support, long

Size (mm)

280
210
192
320

290
258
221.50
321

380
210
258
372
300
302

430
210
258
521
301
303

19 anthracite

Brackets for pole head mounting.

NUT

DESIGN - **STEFANO DALL'OSSO**

CODE	DESCRIPTION
	Bracket for pole head mounting Double support for two spotlights Pole head mounting Steel sheet with epoxy polyester coat finish Stainless steel screws - Colour: 19
	NUT Small
322	Double support, short
304	Double support, medium
305	Double support, long
	NUT Medium
323	Double support, short
306	Double support, medium
307	Double support, long

Size (mm)

322 — 280 / 210 / 383

323 — 290 / 258 / 443

304 — 380 / 210 — 743

305 — 430 / 210 — 1043

306 — 258 — 743

307 — 258 — 1043

19 anthracite

NOTE

Brackets for intermediate pole mounting.
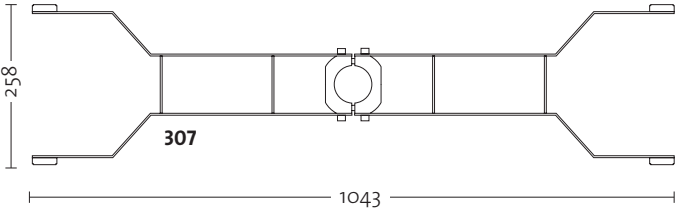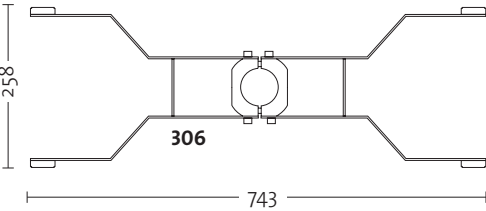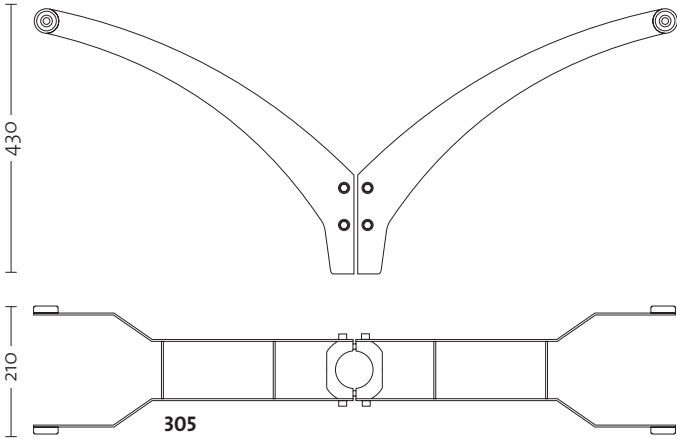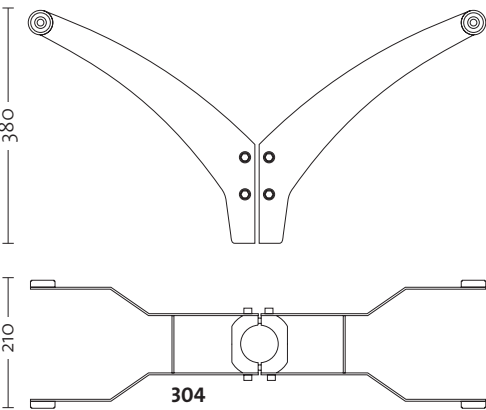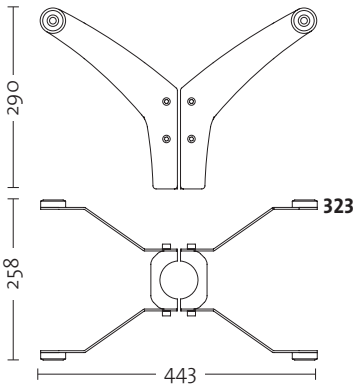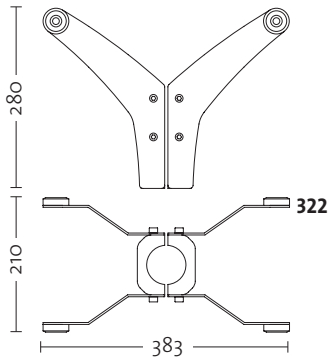
CODE	DESCRIPTION
	Bracket for intermediate pole mounting
	Single support for one spotlight.
	Intrermediate mounting
	Steel sheet with epoxy polyester coat finish
	Stainless steel screws
	Colour: 19
	NUT Small
308	Single support, medium
309	Single support, long
	NUT Medium
310	Single support, medium
311	Single support, long

3000

Size (mm)

380
210
308

430
210
309

258
310

258
311

397

547

NOTE
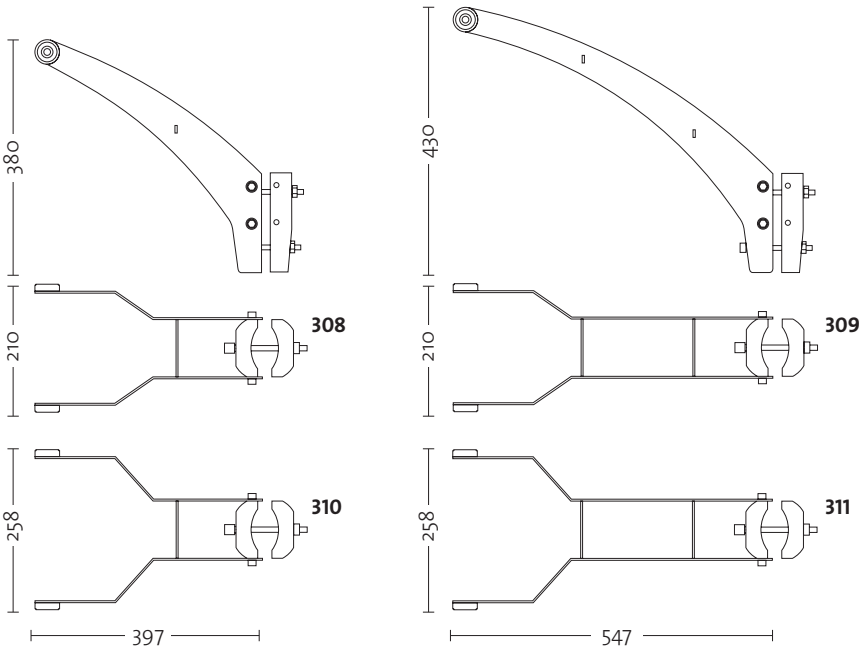
Wall mounting brackets.

19 anthracite

CODE	DESCRIPTION
	Bracket for mounting
	Single bracket for one spotlight
	Wall mounting
	Steel sheet with epoxy polyester coat finish
	Stainless steel screws
	Colour: 19
	NUT Small
312	Single support, medium
313	Single support, long
	NUT Medium
314	Single support, medium
315	Single support, long

Size (mm)

312 — 380 / 210 / 370

313 — 430 / 210

314 — 258

315 — 258 / 520

19 anthracite

NOTE

19 anthracite
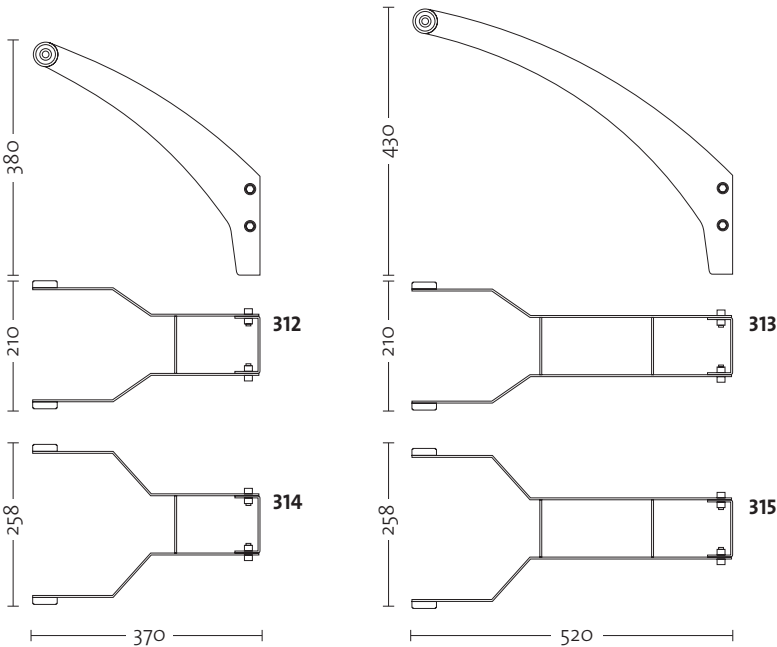
CODE	DESCRIPTION
	Angular mounting
	Single bracket for one spotlight
	Angular mounting
	Steel sheet with epoxy polyester coat finish
	Stainless steel screws
	Colour: 19
	NUT Small
316	Single support, medium
317	Single support, long
	NUT Medium
318	Single support, medium
319	Single support, long

Size (mm)

316 380 210 466

317 430 210 616

318 258

319 258
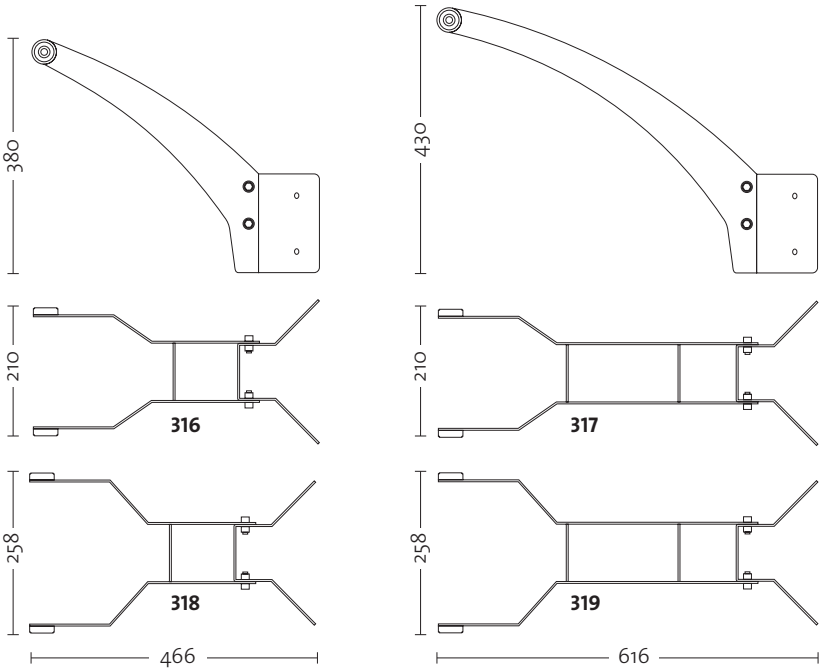
19 anthracite

NOTE

Tapered cone-shaped pole to be mounted directly in the ground or
with in-ground recessed plate fixing.

NUT

DESIGN - **STEFANO DALL'OSSO**

CODE	DESCRIPTION
	POLES TO BE MOUNTED DIRECTLY IN THE GROUND Steel with epoxy polyester coat finish The pole is provided with cable slot, earthing connection, electrical equipment slot. Colour: 19
894	**4 metres above ground**
895	**6 metres above ground**
896	**9 metres above ground**

CODE	DESCRIPTION
	POLES WITH PLATE Steel with epoxy polyester coat finish The pole is provided with earthing connection and electrical equipment slot Colour: 19
897	**4 metres above ground**
898	**6 metres above ground**
899	**9 metres above ground**

CODE	DESCRIPTION
	Recessed plate with tie-rods for fixing to the ground Hot-galvanised steel
888	**For poles 4 and 6 metres high**
889	**For poles 9 metres high**

888-889

Direct ground mounting
Poles 4/6 meters with plate
Poles 9 meters with plate
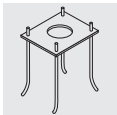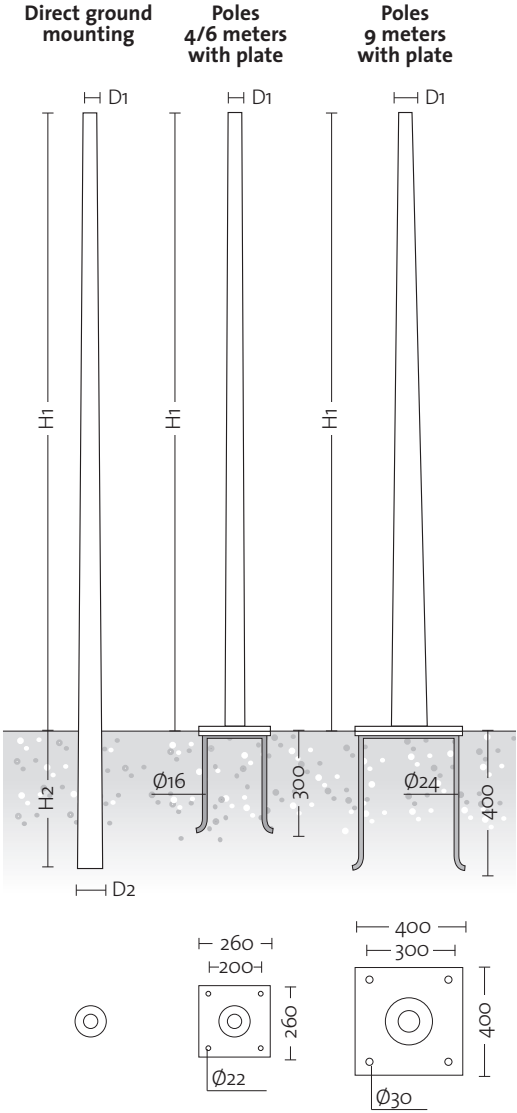
H1	H2	D1	D2
4000	500	60	105
6000	800	60	128
9000	800	60	158

19 anthracite

NOTE