



PUCK - SNAP THE LIGHT
LIGHT FOR HANDRAILS

TEFLON CABLE

STAINLESS STEEL 316

LED TECHNOLOGY

CREE XP-G3

>128LM/W

3 SDCM

UP TO CRI 90+

GLASS VERSIONS

POLYCARBONATE, IP65, IK10

OR BOROSILICATE, IP67

„ONE“ HOUSING FOR ALL WALL THICKNESSES FROM 1.5MM

NO THREAD AND NO COUNTERSINK REQUIRED FOR MOUNTING

QUICK PREPARATION OF THE HANDRAIL FOR ASSEMBLY

OPTIMUM ALIGNMENT OF THE PUCK POSSIBLE EVEN AFTER INSTALLATION

ALWAYS PERFECTLY FLUSH TO HANDRAIL MOUNTING OF THE PUCK

REDUCED RISK OF CABLE BREAKAGE BY „SNAPPING“ THE PUCK INTO THE MATERIAL

NO USE OF INTERNAL SPRINGS OR LOCTITE,
THUS IMPROVED DISMANTLING POSSIBILITIES

THEFT-PROOF BY USING A SPECIAL DISASSEMBLY TOOL

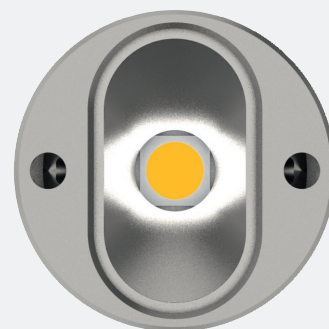


PROJECT CYCLE PATH RS1, MÜLHEIM AN DER RUHR

LED PUCK STANDARD LIGHT DISTRIBUTION

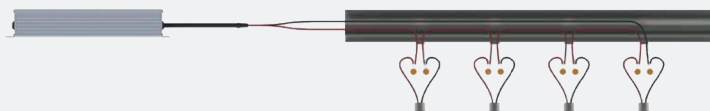
TECHNICAL SPECIFICATIONS

• Installation	in round (CF) or flat (FF) surfaces
• Housing	Stainless steel 316
• Dimensions	Diameter 16mm - Height 15mm / 26mm
• Rated capacity	1,4W / 500mA / 2,8Vf
• Light output	170lm (3000K) / 180lm (4000K)
• LED	CREE-XPG-3 with SC5 technology
• Light colours	3000K / 4000K (2700K / 3500K on request)
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdams Ellipses
• Lifetime	50.000h L80 B10
• Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
• Impact resistant class	IK10 (EN62262) at IP65
• Material thickness handrail	at least 1.5mm Diameter
• Diameter handrail	at least 35mm round, at least 25mm square
• Theft protection	Disassembly only possible with special tool



SERIES WIRING

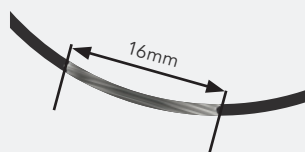
Max. 20 pucks per driver (SELV) are allowed.



INSTALLATION DETAIL

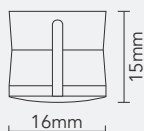
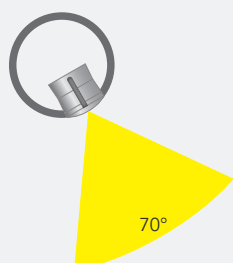
Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.

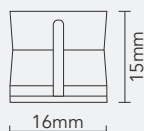


LED PUCK HLS-ST-SNP FOR INSTALLATION IN METAL

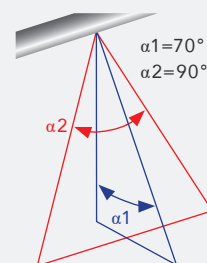
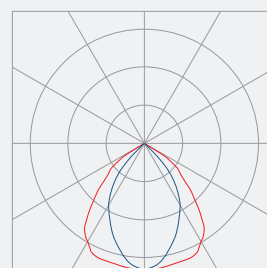
	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ST	SNP	CF	WW	-
	ST = Standard	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate



CF = Round

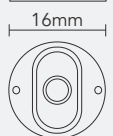
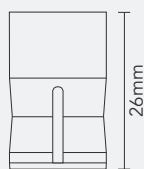
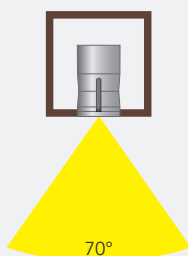


FF = Flat

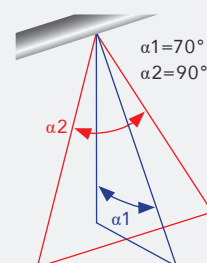
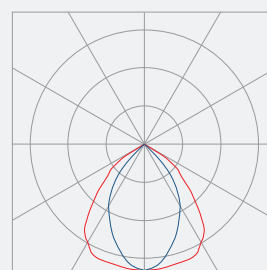


LED PUCK HLS-ST-SOLO FOR INSTALLATION IN WOOD, PLASTER AND MASONRY

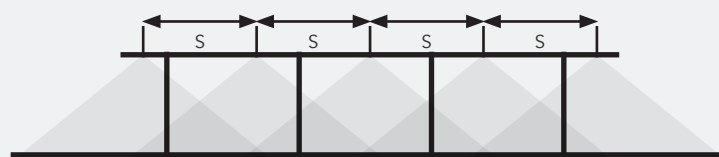
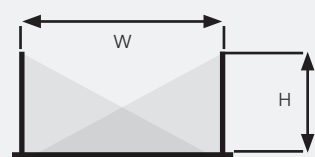
	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ST	SOLO	FF	WW	-
	ST = Standard	SOLO = SNAP mounting	FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate



FF = Flat



PLANNING EXAMPLE



W = Path Width
H = Mounting Height
handrail 1m
S = LED Spacing between
Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	342	205	137	103
1.0 m	171	103	68	51
2.0 m	86	51	34	26

lx = average lux, light colour = 3000K

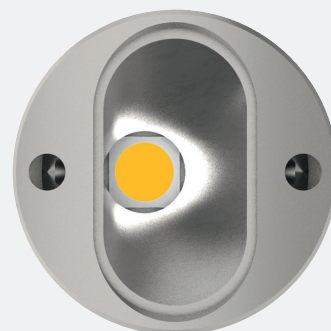


PROJECT CENTRAL STATION, WUPPERTAL / LIGHTING DESIGNER LUNALICHT, KARLSRUHE

LED PUCK VERTICAL ASYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

• Installation	in round (CF) or flat (FF) surfaces
• Housing	Stainless steel 316
• Dimensions	Diameter 16mm - Height 15mm / 26mm
• Rated capacity	1,4W / 500mA / 2,8Vf
• Light output	165lm (3000K) / 175lm (4000K)
• LED	CREE-XPG-3 with SC5 technology
• Light colours	3000K / 4000K (2700K / 3500K on request)
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdams Ellipses
• Lifetime	50.000h L80 B10 / 100.000h L70 B50 (SOLO)
• Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
• Impact resistant class	IK10 (EN62262) at IP65
• Material thickness handrail	at least 1.5mm Diameter
• Diameter handrail	at least 35mm round, at least 25mm square
• Theft protection	Disassembly only possible with special tool



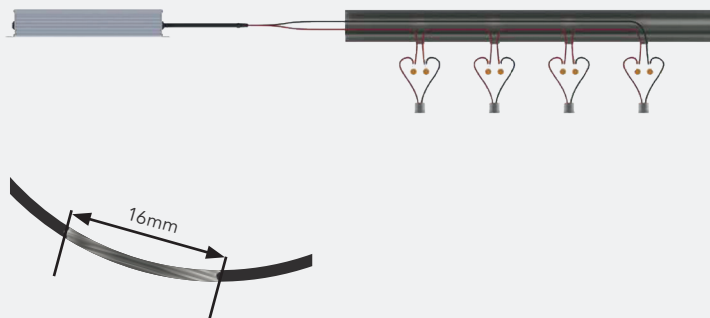
SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.

INSTALLATION DETAIL

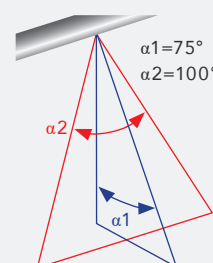
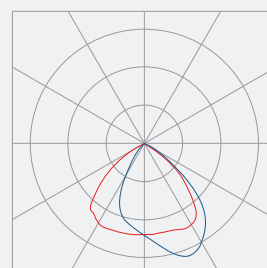
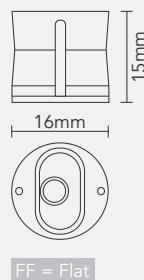
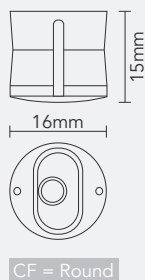
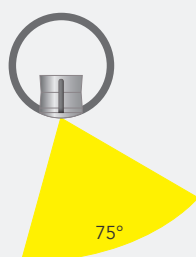
Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.



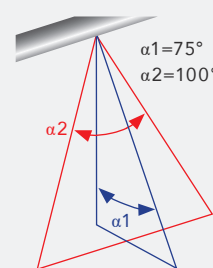
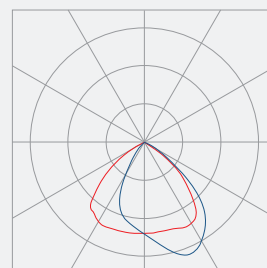
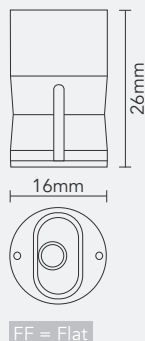
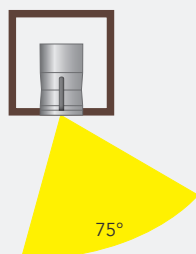
LED PUCK HLS-VA-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	VA	SNP	CF	WW	-
	VA = Vertical asymmetrical	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate

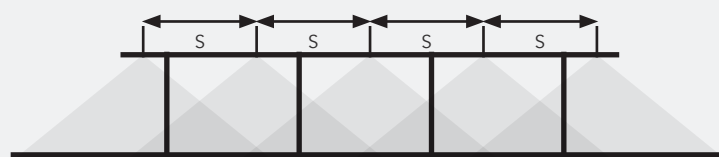
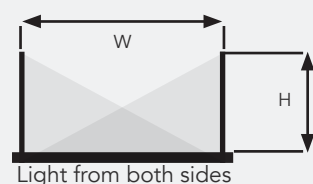


LED PUCK HLS-VA-SOLO FOR INSTALLATION IN WOOD, PLASTER AND MASONRY

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	VA	SOLO	FF	WW	-
	VA = Vertical asymmetrical	SOLO = SNAP mounting	FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate



PLANNING EXAMPLE



W = Path Width
H = Mounting Height
handrail 1m
S = LED Spacing between
Pucks

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	291	174	116	87
1.0 m	145	87	58	44
2.0 m	73	44	29	22

lx = average lux, light colour = 3000K

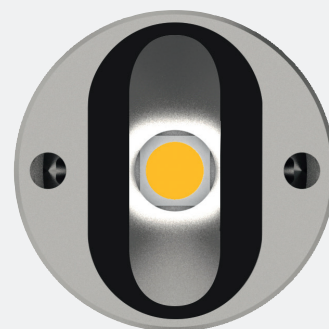


PROJECT POWERHOUSE MUSEUM SYDNEY

LED PUCK WIDE SYMMETRICAL LIGHT DISTRIBUTION

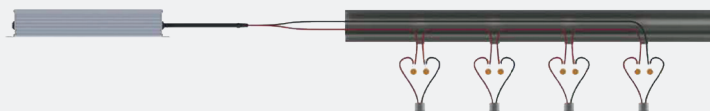
TECHNICAL SPECIFICATIONS

• Installation	in round (CF) or flat (FF) surfaces
• Housing	Stainless steel 316
• Dimensions	Diameter 16mm - Height 15mm
• Rated capacity	1,4W / 500mA / 2,8Vf
• Light output	172lm (3000K) / 182lm (4000K)
• LED	CREE-XPG-3 with SC5 technology
• Light colours	3000K / 4000K (2700K / 3500K on request)
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdams Ellipses
• Lifetime	50,000h L80 B10
• Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
• Impact resistant class	IK10 (EN62262) at IP65
• Material thickness handrail	at least 1.5mm Diameter
• Diameter handrail	at least 35mm round, at least 25mm square
• Theft protection	Disassembly only possible with special tool



SERIES WIRING

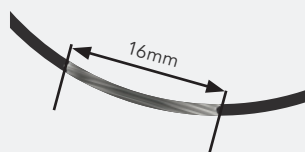
Max. 20 pucks per driver (SELV) are allowed.



INSTALLATION DETAIL

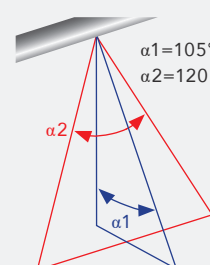
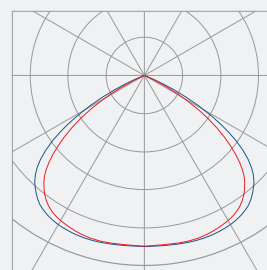
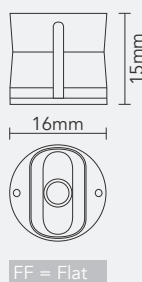
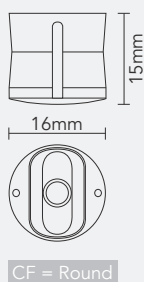
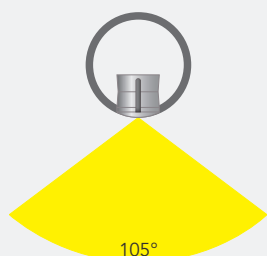
Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.

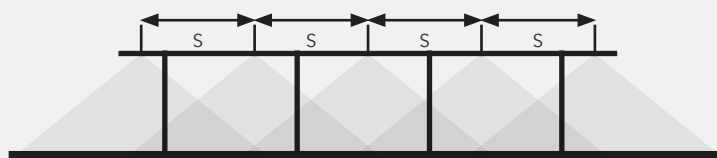
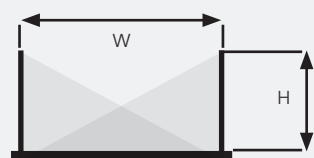


LED PUCK HLS-WIDE-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	WIDE	SNP	CF	WW	-
	Wide	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate



PLANNING EXAMPLE

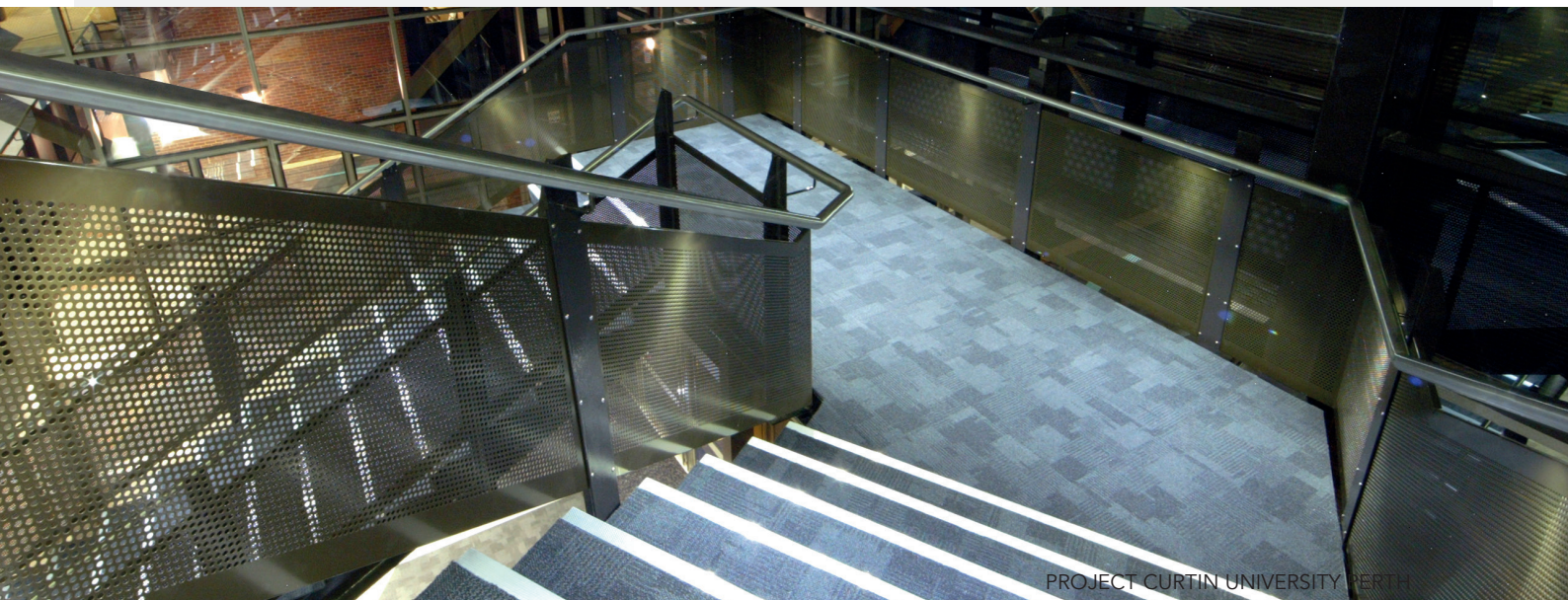


W = Path Width
H = Mounting Height
handrail 1m
S = LED Spacing between
Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	222	133	89	67
1.0 m	111	67	44	33
2.0 m	56	33	22	17

lx = average lux, light colour = 3000K

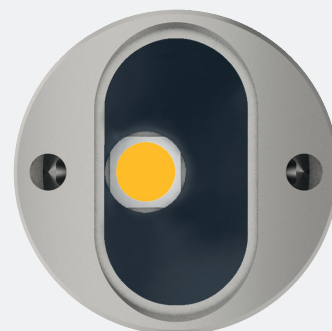


PROJECT CURTIN UNIVERSITY PERTH

LED PUCK ZERO ASYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

• Installation	in round (CF) or flat (FF) surfaces
• Housing	Stainless steel 316
• Dimensions	Diameter 16mm - Height 15mm
• Rated capacity	1,4W / 500mA / 2,8Vf
• Light output	92lm (3000K) / 101lm (4000K)
• LED	CREE-XPG-3 with SC5 technology
• Light colours	3000K / 4000K (2700K / 3500K on request)
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdams Ellipses
• Lifetime	50.000h L80 B10
• Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
• Impact resistant class	IK10 (EN62262) at IP65
• Material thickness handrail	at least 1.5mm Diameter
• Diameter handrail	at least 35mm round, at least 25mm square
• Theft protection	Disassembly only possible with special tool



Black 2.0 by Stuart Semple coated reflector for reduced glare

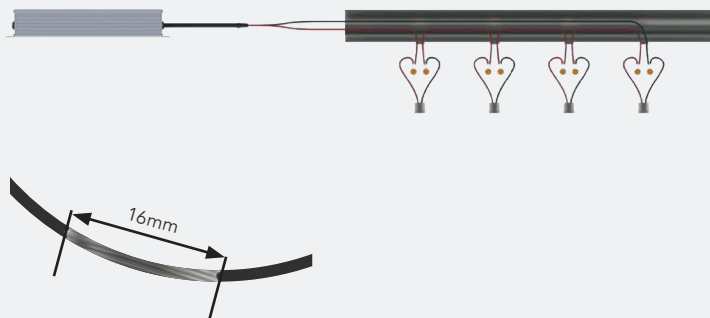
SERIES WIRING

Max. 20 pucks per driver (SELV) are allowed.

INSTALLATION DETAIL

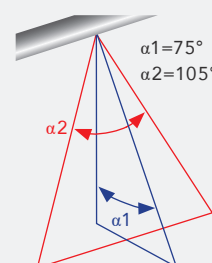
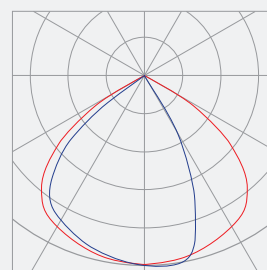
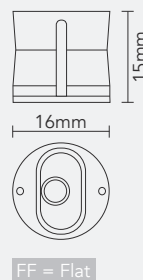
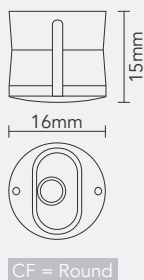
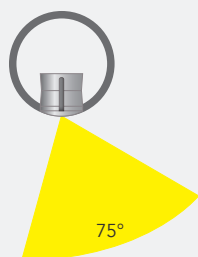
Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.

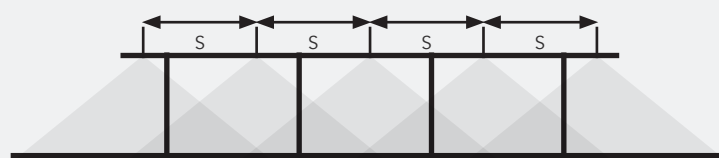
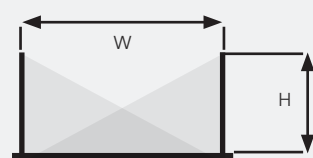


LED PUCK HLS-ZERO-SNP FOR INSTALLATION IN METAL

	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	ZERO	SNP	CF	WW	-
	ZERO = Asymmetrical	SNP = SNAP mounting	CF = Round FF = Flat	IW = 2700K WW = 3000K MW = 3500K NW = 4000K	not specified = Polycarbonate (standard) B = Borosilicate



PLANNING EXAMPLE



W = Path Width
H = Mounting Height
handrail 1m
S = LED Spacing between
Pucks

Light from both sides

Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	164	98	66	49
1.0 m	82	49	33	25
2.0 m	41	25	16	12

lx = average lux, light colour = 3000K



PROJECT CHEVRON ISLAND EASTERN BRIDGE RENEWAL

LED PUCK RGBW SYMMETRICAL LIGHT DISTRIBUTION

TECHNICAL SPECIFICATIONS

• Installation	in round (CF) or flat (FF) surfaces
• Housing	Stainless steel 316
• Dimensions	Diameter 16mm - Height 26mm
• Rated capacity	1,4W / 500mA / 2,8Vf
• Light output	180lm (4000K)
• LED	CREE-XPG-3 with SC5 technology
• Light colours	Red, green, blue, white 4000K (single LEDs)
• Colour rendering index	CRI 80+ (CRI 90+ on request)
• Chromaticity stability	3 Step MacAdams Ellipses
• Lifetime	50.000h L80 B10
• Protection class	IP65 (Polycarbonate) or IP67 (Borosilicate)
• Impact resistant class	IK10 (EN62262) at IP65
• Material thickness handrail	at least 1.5mm Diameter
• Diameter handrail	at least 35mm round, at least 25mm square
• Theft protection	Disassembly only possible with special tool



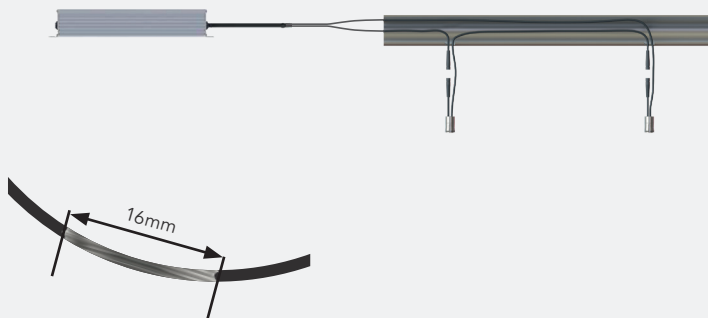
SERIES WIRING

Max. 14 pucks per driver (SELV) are allowed.

INSTALLATION DETAIL

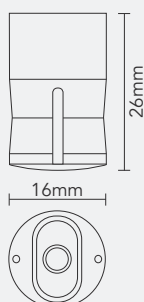
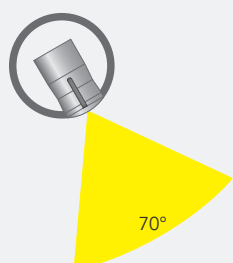
Material thickness: > 1.5mm

The SNAP puck can be used from a material thickness of 1.5mm without counterbore and thread.

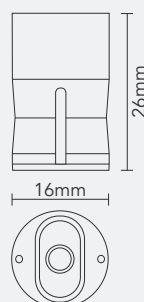


LED PUCK HLS-RGBW-SNP FOR INSTALLATION IN METAL, WOOD, PLASTER AND MASONRY

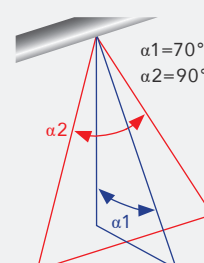
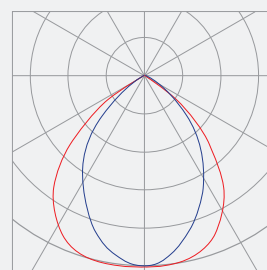
	Beam angle	Mounting technique	Version	Light colour	Glass
HLS	RGBW	SNP	CF	NW	-
	RGBW = Symmetrical	SNP = SNAP mounting	CF = Round FF = Flat	NW = 4000K white LED	not specified = Polycarbonate (standard) B = Borosilicate



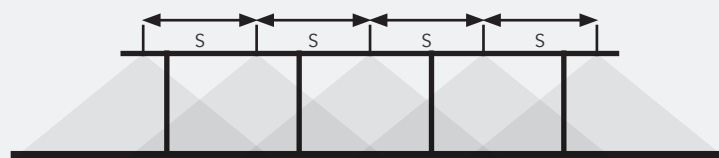
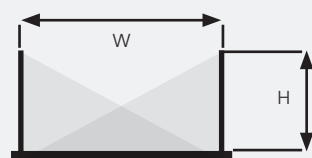
CF = Round



FF = Flat



PLANNING EXAMPLE



W = Path Width
H = Mounting Height
handrail 1m
S = LED Spacing between
Pucks

Light from both sides

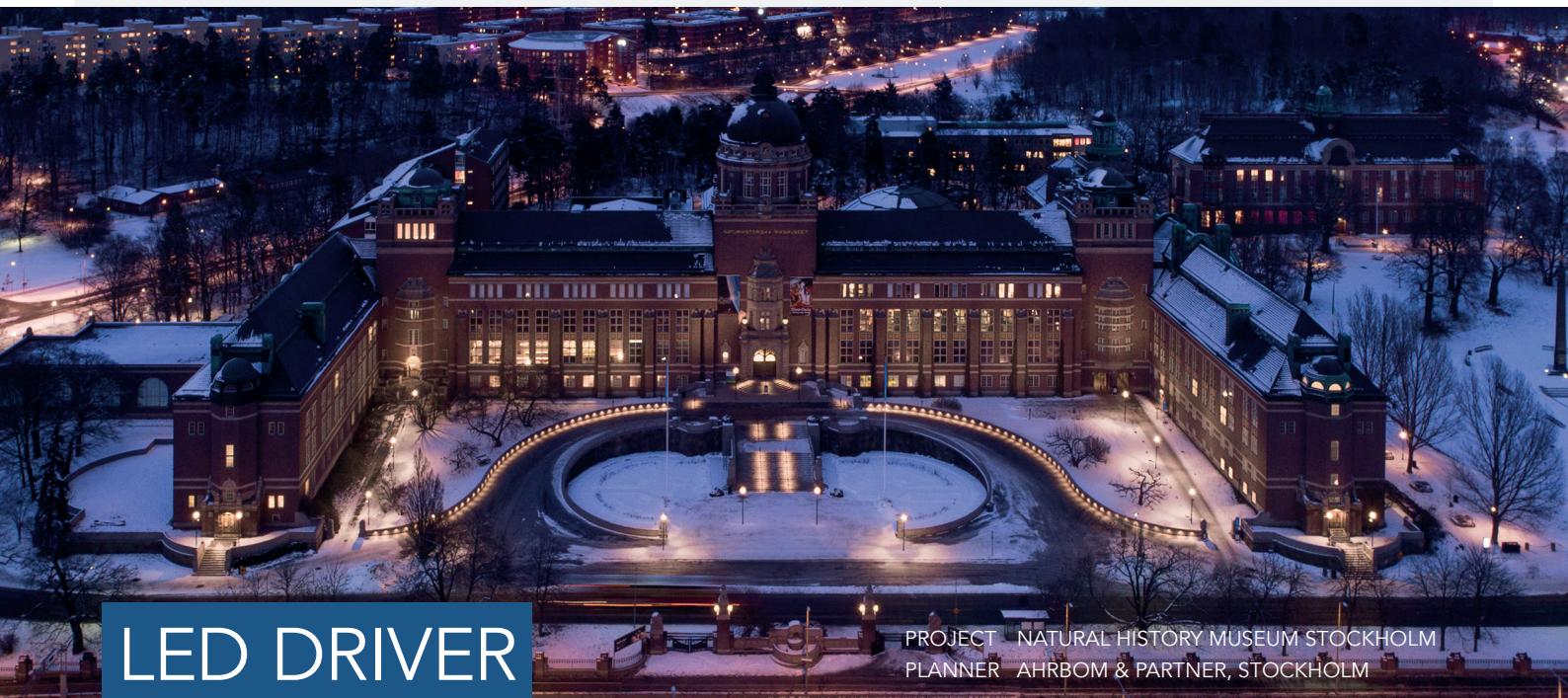
Path Width (W)	1.2 m	2.0 m	3.0 m	4.0 m
LED Spacing (S)	lx	lx	lx	lx
0.5 m	380	228	152	114
1.0 m	190	114	76	57
2.0 m	95	57	38	28

lx = average lux, light colour = 4000K

DIMMABLE LED DRIVER ELDOLED (RGBW)

Output power: 50W max
Input voltage: 120-250V
Input current: 0.7A max
Frequency: 50-60 Hz
Control channels: 4
Dimming range: 100%-0%

Drivers with different dimensions available.
Please contact us.

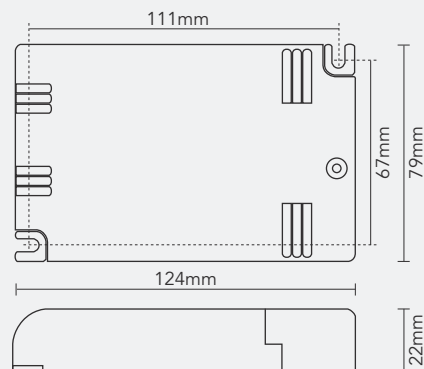


LED DRIVER

PROJECT NATURAL HISTORY MUSEUM STOCKHOLM
PLANNER AHRBOM & PARTNER, STOCKHOLM

STATIC MULTI LED DRIVER TCI MP50 K3

Output current adjustable via dip-switch
Operation of the LED Puck SNAP with 500mA
Capacity: @ 500mA = 35W
Input voltage: AC 220-240V
Frequency: 50-60 Hz
Connection clamp: max. 2.5mm²
Protection class: IP20
Operating mode: static ON/OFF
Item number: 13418



DIMMABLE MULTI LED DRIVER TCI MAXI JOLLY HV 60

Output current adjustable via dip-switch
Operation of the LED Puck SNAP with 500mA
Capacity: @ 500mA = 56W
Input voltage: AC 220-240V
Frequency: 50-60 Hz
Connection clamp: max. 2.5mm²
Protection class: IP20
Operating mode: DALI, 1-10V, Push-Dimm
Item number: 15532

NOTE: Max. 20 pucks per driver (SELV) are allowed.
Other driver types available on request.

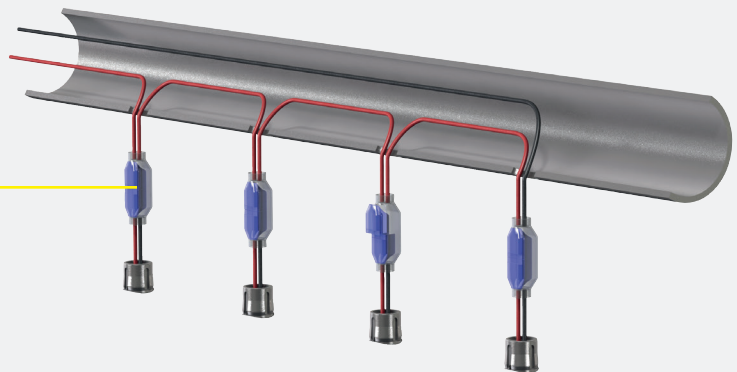
LAY THE BLACK AND RED CABLE



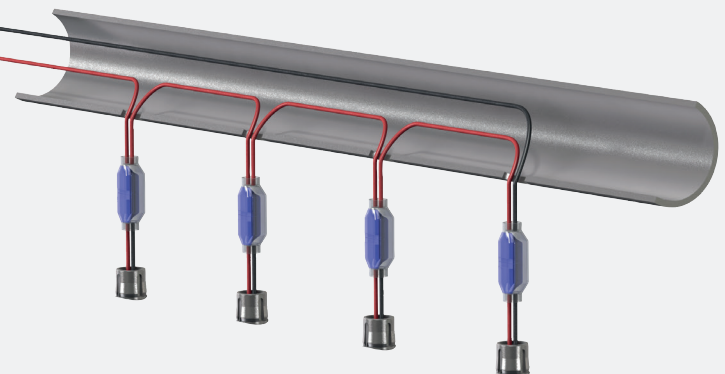
PULL OUT THE RED CABLE



CONNECT PUCKS



CONNECT
DRIVER



"SNAP" PUCKS



LED HANDRAIL LIGHTING MODULE

AWARD WINNING TECHNOLOGY

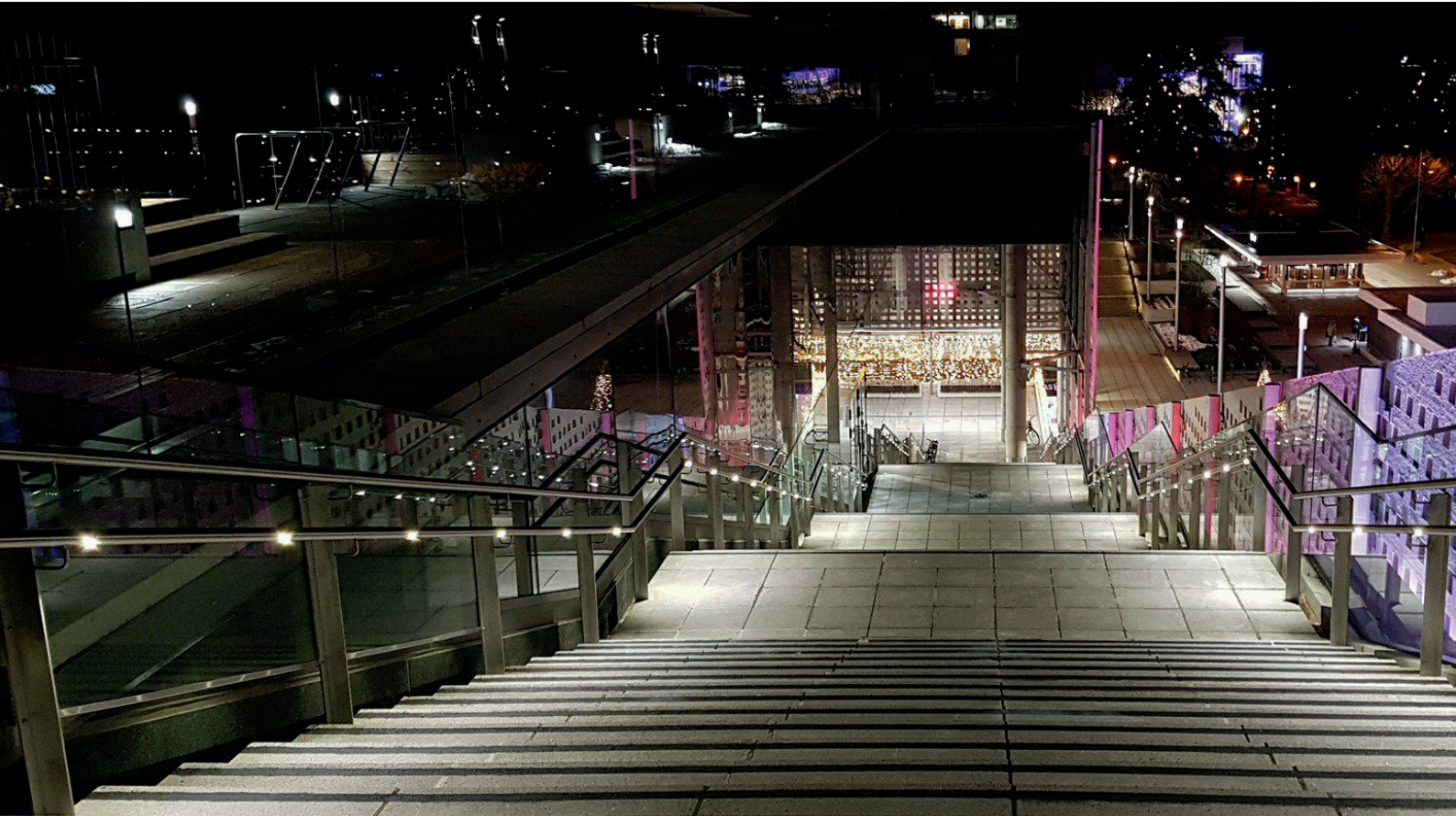
The award-winning LED Puck lighting system offers the most flexible and vandal-proof handrail luminaires on the market. The excellent uniformity, maximum light output and wide range of beam angles, light colours and control options make the LED Puck lighting system an all-rounder for installation in handrails, street sculptures and artworks. With up to 180 lumens and an impressive light output of up to 128 lumens per watt, the only 16mm small LED pucks are an extraordinary lighting tool for illuminating handrails and more.



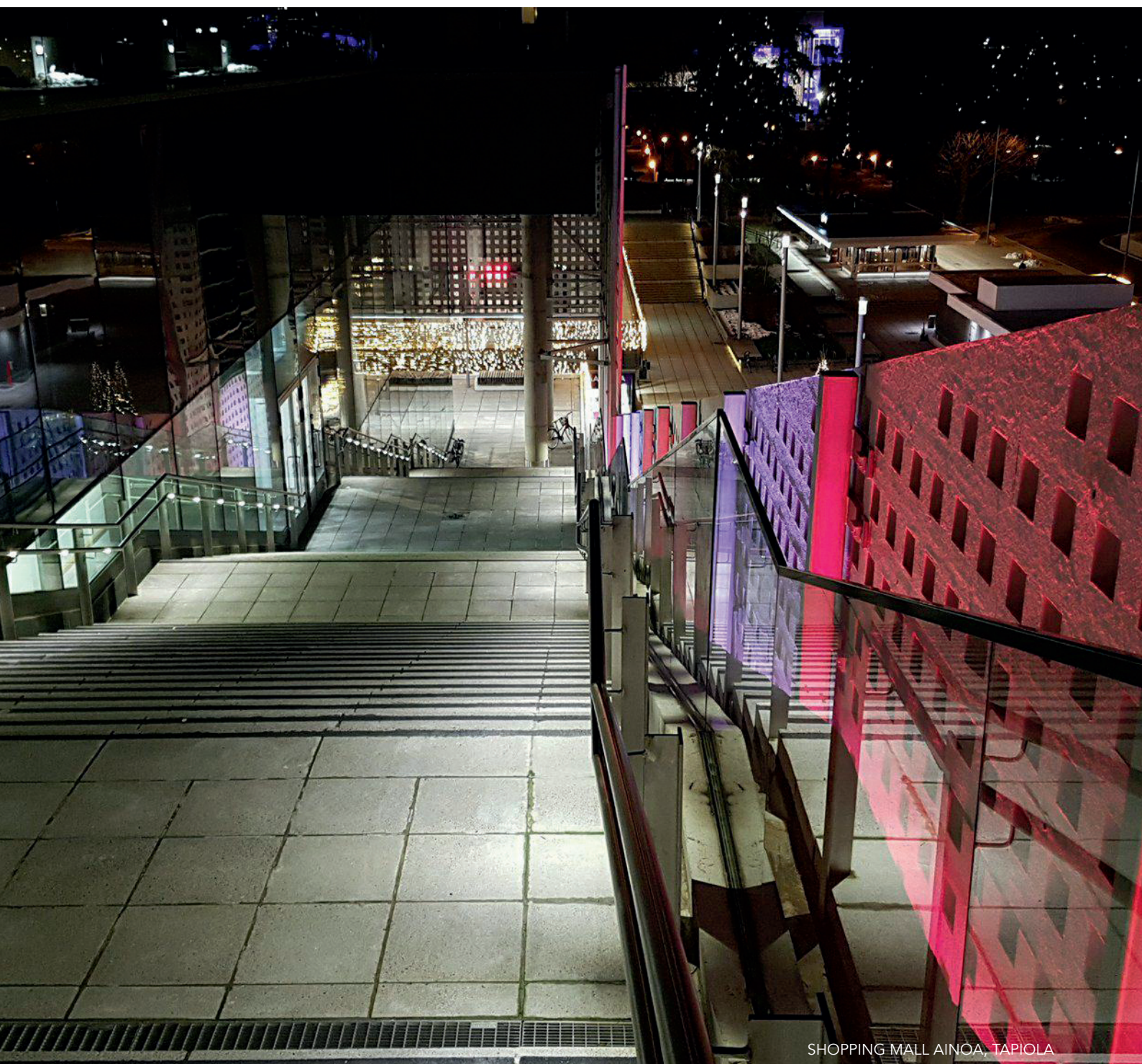
PROJECT SÖLVESBORG BRIDGE, SWEDEN / PLANNER LJUS ARCHITECTURE



PROJECT JUBILEE BRIDGE, SINGAPORE / PLANNER COX ARCHITECTURE







SHOPPING MALL AINOÄ, TAPIOLA

KT Interior Oy
Hiilikatu 3, katutaso
00180 HELSINKI

Puh. +358 (0)10 235 1900
[info\[at\]ktinterior.fi](mailto:info[at]ktinterior.fi)