

Floodlight Series 6521/4



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THORNE & DERRICK UK
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E2



- > The enclosure made of stainless steel V4A, V2A or powder coated sheet steel is available
- > Broad or narrow beam reflectors and/or asymmetrical lamp fitting
- > Series 6521/4 explosion protected floodlight as spotlight with asymmetrical flat optics reflector
- > It can be selected in 3 sizes that match its power



09678E00

Series 6521/4 explosion protected floodlight for use in explosive gas atmospheres of Zone 2 as well as in areas with combustible dust of Zone 21 and Zone 22.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in			x		x	x

WebCode 6521B



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Selection Table

Version	Enclosure	Lamp capacity			Temperature class at Ta =			Order number	Weight
		Lampholder	Lamps ¹⁾	Power	40 °C	50 °C	T _{o max.} at Ta = 40 °C		
Floodlight size 1	Sheet steel powder coated	E27	QT	150 W	T3	T3	156 °C	6521/4111-115-023-1-230-50	8.293
			QT	250 W	T2	T2	202 °C	6521/4111-125-023-1-230-50	9.493
			HIT	70 W	T4	T3	121 °C	6521/4111-207-123-1-230-50	9.493
			HIT	100 W	T3	T3	140 °C	6521/4111-210-123-1-230-50	10.893
			HIT	150 W	T3	- -	165 °C	6521/4111-215-123-1-230-50	11.963
			HST	70 W	T4	T3	121 °C	6521/4111-307-123-1-230-50	9.493
	Stainless steel V2A	E27	QT	150 W	T3	T3	156 °C	6521/4111-115-023-3-230-50	8.130
				250 W	T2	T2	202 °C	6521/4111-125-023-3-230-50	8.130
			HIT	70 W	T4	T3	121 °C	6521/4111-207-123-3-230-50	9.330
				100 W	T3	T3	140 °C	6521/4111-210-123-3-230-50	10.730
				150 W	T3	- -	165 °C	6521/4111-215-123-3-230-50	11.800
			HST	70 W	T4	T3	121 °C	6521/4111-307-123-3-230-50	9.330
	Stainless steel V4A	E27	QT	150 W	T3	T3	156 °C	6521/4111-115-023-4-230-50	8.130
				250 W	T2	T2	202 °C	6521/4111-125-023-4-230-50	8.130
			HIT	70 W	T4	T3	121 °C	6521/4111-207-123-4-230-50	9.330
				100 W	T3	T3	140 °C	6521/4111-210-123-4-230-50	10.730
				150 W	T3	- -	165 °C	6521/4111-215-123-4-230-50	11.800
			HST	70 W	T4	T3	121 °C	6521/4111-307-123-4-230-50	9.330
Floodlight size 2	Sheet steel powder coated	E40	QT	500 W	T3	T3	180 °C	6521/4212-150-023-1-230-50	15.570
			HST	150 W	T4	T3	130 °C	6521/4212-315-123-1-230-50	17.780
			HIT/HST	250 W	T3	T3	156 °C	6521/4212-625-123-1-230-50	19.280
	Stainless steel V2A	E40	QT	500 W	T3	T3	180 °C	6521/4212-150-023-3-230-50	15.300
			HST	150 W	T4	T3	130 °C	6521/4212-315-123-3-230-50	17.500
			HIT/HST	250 W	T3	T3	156 °C	6521/4212-625-123-3-230-50	19.000
	Stainless steel V4A	E40	QT	500 W	T3	T3	180 °C	6521/4212-150-023-4-230-50	15.300
			HST	150 W	T4	T3	130 °C	6521/4212-315-123-4-230-50	17.500
			HIT/HST	250 W	T3	T3	156 °C	6521/4212-625-123-4-230-50	19.000



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Selection Table

Version	Enclosure	Lamp capacity			Temperature class at Ta =			Order number	Weight
		Lampholder	Lamps ¹⁾	Power	40 °C	50 °C	T _{o max.} at Ta = 40 °C		
Floodlight size 3	Sheet steel powder coated	E40	QT	500 W	T3	T3	147 °C	6521/4312-150-023-1-230-50	22.590
				1000 W	T2	T2	230 °C	6521/4312-111-023-1-230-50	22.490
			HST	600 W	T3	T2	190 °C	6521/4312-360-123-1-230-50	29.190
			HIT/HST	250 W	T4	T3	125 °C	6521/4312-625-123-1-230-50	24.990
				400 W	T3	T3	160 °C	6521/4312-640-123-1-230-50	25.590
		Stainless steel V2A	QT	500 W	T3	T3	147 °C	6521/4312-150-023-3-230-50	22.100
				1000 W	T2	T2	230 °C	6521/4312-111-023-3-230-50	22.100
			HST	600 W	T3	T2	190 °C	6521/4312-360-123-3-230-50	28.800
			HIT/HST	250 W	T4	T3	125 °C	6521/4312-625-123-3-230-50	24.600
				400 W	T3	T3	160 °C	6521/4312-640-123-3-230-50	25.200
	Stainless steel V4A	E40	QT	500 W	T3	T3	147 °C	6521/4312-150-023-4-230-50	22.100
				1000 W	T2	T2	230 °C	6521/4312-111-023-4-230-50	22.100
			HST	600 W	T3	T2	190 °C	6521/4312-360-123-4-230-50	28.800
			HIT/HST	250 W	T4	T3	125 °C	6521/4312-625-123-4-230-50	24.600
				400 W	T3	T3	160 °C	6521/4312-640-123-4-230-50	25.200

Order Number Supplement

Reflector, symmetrical	broad-beamed (standard)	6521/4.1.-.-.-.-.3-.-.-.-.-
	narrow beamed	6521/4.2.-.-.-.-.3-.-.-.-.-
Reflector, asymmetrical	broad-beamed	6521/4.3.-.-.-.-.3-.-.-.-.-
Compensation	without	6521/4.-.-.-.-.0.3-.-.-.-.-
	with	6521/4.-.-.-.-.1.3-.-.-.-.-
Rated voltage	Specify rated voltage	

Note

- 1) QT → Halogen lamps
HIT → Metal halide lamps
HST → High-pressure sodium lamps
HIT/HST → Metal halide lamps / High-pressure sodium lamps
- The floodlights are delivered without lamps; mounting bracket is delivered standard. Additional mounting accessories must be ordered separately.
- Cable gland M20 x 1.5; connection range Ø 6 ... 13 mm (standard)
Cable gland M25 x 1.5; connection range Ø 10 ... 17 mm



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Explosion Protection

Global (IECEx)

Gas and dust	IECEx TUR 10.0014 Ex nRc IIC T ¹⁾ EX tb IIIC T ¹⁾ IP66
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Europe (ATEX)

Gas	TÜV 11 ATEX 7008 Ⓔ II 3G Ex nRc IIC T ¹⁾
Dust	TÜV 10 ATEX 7875 Ⓔ II 2D Ex tb IIIC T ¹⁾ °C IP66 ¹⁾ See selection table

Certifications and certificates

Certificates	IECEx, ATEX, India (PESO)
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Technical Data

Electrical data

Rated voltage	220 V ... 240 V AC, 50 Hz						
Rated current	Size 6521/4.	Halogen lamp * QT *		Halogen metal vapour lamp* HIT *		High-pressure sodium va- pour lamp* HST *	
		Efficiency	I _N	Efficiency	I _N	Efficiency	I _N
	Size 6521/41	100 W	0.44 A	70 W	1.0 A	70 W	0.98 A
		150 W	0.65 A	100 W	1.4 A	--	--
		250 W	1.1 A	150 W	1.8 A	--	--
	Size 6521/42	500 W	2.17 A	250 W	3.0 A	150 W	1.8 A
		--	--	--	--	250 W	3.0 A
		--	--	--	--	--	--
	Size 6521/43	--	--	250 W	3.0 A	250 W	3.0 A
		--	--	400 W	4.2 A	400 W	4.45 A
		500 W	2.17 A	--	--	--	--
		--	--	--	--	600 W	6.2 A
		1000 W	4.35 A	--	--	--	--
Power factor cos φ	High-pressure lamps compensated cos φ > 0.9						

Ambient conditions

Ambient temperature	-40 ... +40 °C / +50 °C (observe the temperature class) -50 ... +40 °C / +50 °C (QT-lamps, observe the temperature class)
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Mechanical data

Degree of protection	IP66 to EN 60598
Protection class	I (with internal / external PE connection)
Material	
Enclosure	6521/4.....-1-..... Sheet steel powder coated RAL 7032 (pebble-grey) 6521/4.....-3-..... Stainless steel 1.4301 (V2A) 6521/4.....-4-..... Stainless steel 1.4404 (V4A)
Window	Safety glass; resistant to thermal shocks
Seal	Silicone
Reflector	Aluminium, anodised
Enclosure lock	Allen screws, M6, stainless steel Hinged enclosure cover

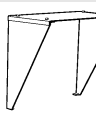
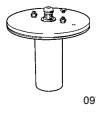
Assembly / Installation

Operating position	Horizontal lamp axis
Cable gland	
Standard	1 x M20 x 1.5 cable gland, clamping area ∅ 6 ... 13 mm 1 x M20 x 1.5 stopping plug 1 x M20 x 1.5 cable entry (with blind plugs - as test holes)
Special	specific customer order possible
Connection option	L1 + N + PE, for 4 mm ² single-wire and finely stranded Cage clamp terminals, 2 clamping positions
Mounting	U-shaped holding bracket made of stainless steel, continuously swivelable around the rotary axis of the flood lights.



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Accessories and Spare Parts

Designation	Illustration	Description				Art. no.	Weight
							kg
Halogen lamps QT	 05355E00	Power	Lamp holder	Voltage	Lighting current		
		150 W	E27	230 V	2870 lm	207458	0.040
		205 W	E27	230 V	4200 lm	203469	0.100
		500 W	E40	230 V	10250 lm	108874	0.132
		1000 W	E40	230 V	24000 lm	108872	0.152
Metal-halide lamps HIT / HIE	 05355E00	Power	Lamp holder	Voltage	Lighting current		
		70 W	E27	230 V	7000 lm	109128	0.090
	 04963E00	100 W	E27	230 V	7700 lm	109308	0.420
		150 W	E27	230 V	11500 lm	109309	0.110
	 05355E00	150 W	E40	230 V	14500 lm	109130	0.175
		250 W	E40	230 V	20000 lm	109132	0.200
High-pressure sodium lamps HST	 05355E00	Power	Lamp holder	Voltage	Lighting current		
		70 W	E27	230 V	6600 lm	109127	0.070
		150 W	E40	230 V	17500 lm	109129	0.170
		250 W	E40	230 V	33200 lm	109131	0.213
		400 W	E40	230 V	56500 lm	109133	0.210
		600 W	E40	230 V	90000 lm	109310	0.220
Light visor	 09785E00	Stainless steel; attaches to front cover					
		for 6521/.1				123494	0.775
		for 6521/.2				123498	2.060
Baffle screen	 09786E00	Stainless steel; attaches to front cover					
		for 6521/.1				123506	1.170
		für 6521/.2				123507	2.290
Mounting base (rotatable)	 09787E00	Stainless steel for all sizes				123508	3.390
		for 6521/.3				123495	3.810
Pole mounting attachment	 09788E00	For installation on end of pole (stainless steel)					
		Ø 60 mm				123493	4.430
		Ø 76 mm				123497	5.260
		Ø 89 mm				123500	4.640

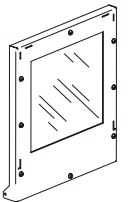
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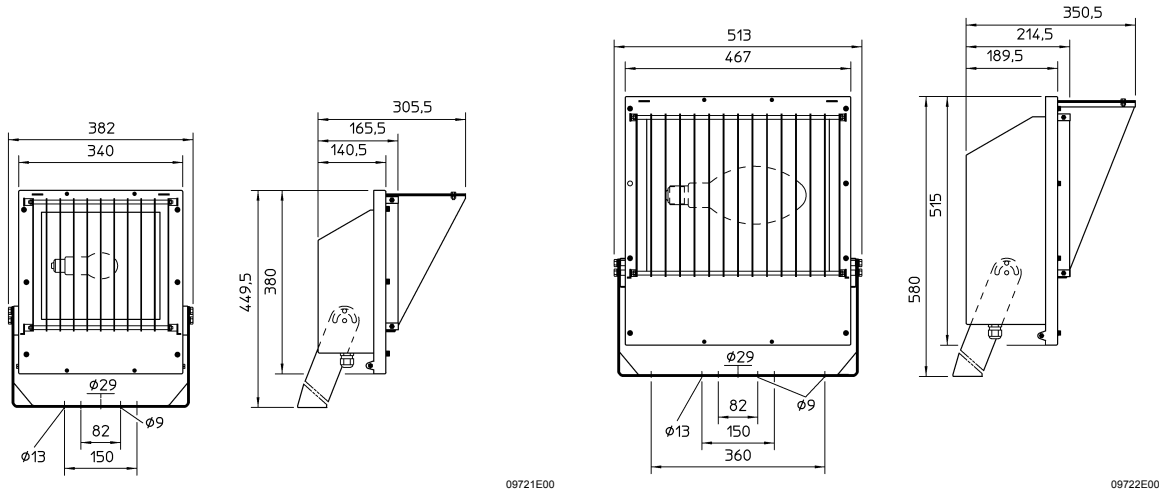
Accessories and Spare Parts

Designation	Illustration	Description	Art. no.	Weight
				kg
Cover with window		Cover with glass for replacement		
		for 6521/41 Sheet steel powder coated RAL 7032	209329	2.694
		for 6521/41 Stainless steel 1.4301 (V2A)	207484	2.650
		for 6521/41 Stainless steel 1.4404 (V4A)	209328	2.650
		for 6521/42 Sheet steel powder coated RAL 7032	209336	5.059
		for 6521/42 Stainless steel 1.4301 (V2A)	207485	5.000
		for 6521/42 Stainless steel 1.4404 (V4A)	209335	5.000
		for 6521/43 Sheet steel powder coated RAL 7032	209189	6.583
		for 6521/43 Stainless steel 1.4301 (V2A)	207486	6.500
Cable gland		Brass, nickel-plated with O-ring		
		M20	109582	0.040
		M20	106037	0.010
Stopping plug		Brass, nickel-plated with O-ring		
		M20	106132	0.015
		M25	106133	0.024



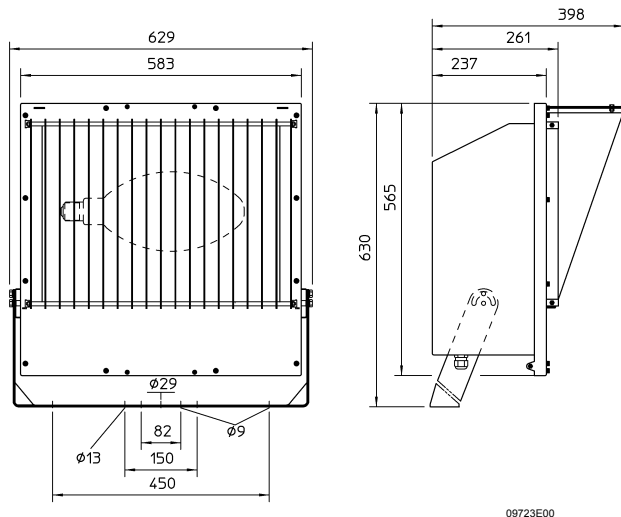
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



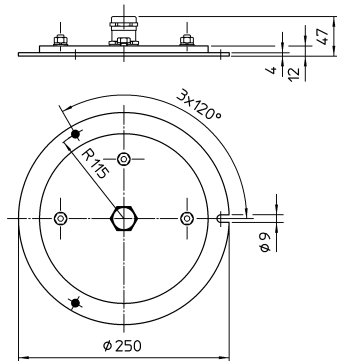
Size 1, 6521/41 ¹⁾

Size 2, 6521/42 ¹⁾

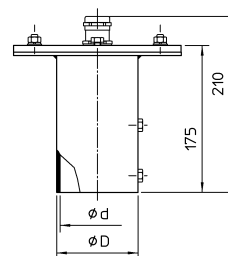


Size 3, 6521/43 ¹⁾

¹⁾ Shown with baffle screen and light visor, both parts are accessories and are not included in the standard scope of delivery



Mounting base (rotatable)



Pole mounting attachment

D	d
97	89
89	76
75	60

Accessories

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.