

FL2 SERIES

LED FLOODLIGHT

LED EFFICIENCY

UP TO
204 LM/W



Zone 2,22



 **TECHNOR**
ITALSMEA

A COMPANY OF MARECHAL ELECTRIC

EFFICIENT LIGHTING

The FL2 Series sets a new benchmark for safety, efficiency, and performance in floodlight lighting fixtures designed for Zone 2 and 22 hazardous areas.

Named after stars and entirely engineered and manufactured in Italy, the FL2 range includes four models with progressively higher lumen outputs: **Altair**, **Gemma**, **Maia** and **Vega**.

Each fixture is designed to endure extreme temperatures, heavy mechanical stress, and corrosive environments, ensuring long-lasting and reliable operation.

Key differentiation features:

- High LED efficiency (up to 204 lm/W), delivering maximum brightness with minimal energy consumption and reduced CO2 emissions
- Optimized for long-term energy savings, ensuring consistent performance and lower operating costs
- Loop-in/loop-out facility with dual entry terminal strip
- Multiple mounting options: wall or pole .
- Wind-optimized, compact, and lightweight design
- Optional T-type pole adaptor
- Different types of configurations:
 - Asymmetric, for wide side-oriented beams (AS)
 - Symmetric, for uniform circular light (SY)
 - Street, with an elongated distribution for roads and pathways (ST)



ALTAIR



GEMMA



MAIA



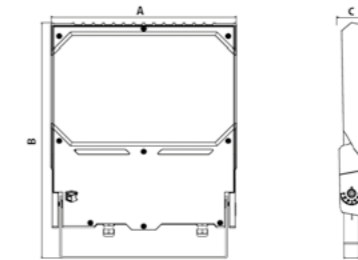
VEGA

TECHNICAL FEATURES

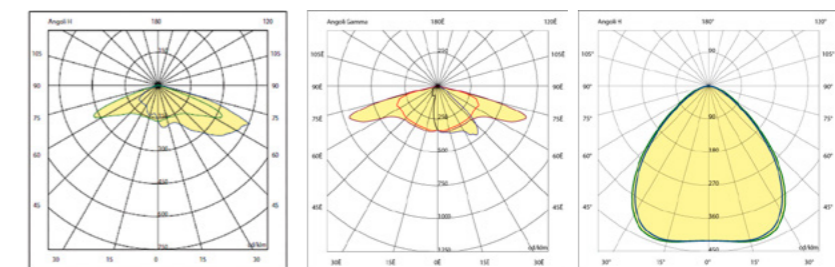
Marking	II 3 G Ex ec IIC T4/T3 Gc II 3 D Ex tc IIIC T85°C Dc
Approvals	FIDI 25 ATEX 0044X IECEX FIDI 25.0016X EAC KG417-039.IT.02.06788
Zones	2, 22
Material	Copper-free aluminium and tempered glass
IP	IP66
Ambient temperature range	-40°C to +55°C
Rated voltage	120-277 VAC or 110-277 VAC
Frequency	50 - 60 Hz
Colour rendering Index	70 CRI
Colour temperature	4,000 K 6,500 K (upon request)
LED Lifetime (L80) Ta+25°C	> 80,000 h according to IES LM-80-08
Power factor	cos φ ≥ 0.98
Surge protection	(L/N) 6 KV (L-N/PE) 10 KV
Hardware and screws	Painted steel bracket and AISI 316L stainless steel screw
Entries	2 entries Ø21 mm suitable for M20 fittings
Through wiring	Loop-in/Loop-out
Accessories upon request	<ul style="list-style-type: none"> • Single seal plastic cable glands • Single seal brass nickel-plated cable glands • Double-sealed brass nickel-plated cable glands

PERFORMANCE DATA

CODE	TYPE	POWER [W]	LUMEN [lm]	LUM. NET [lm]	LED EFF. [lm/W]	DIMENSIONS [MM]			WEIGHT [kg]
						A	B	C	
A51A5123X0001	ALTAIR (AS)	48	9,780	7,240	204	255	418	67	4.66
A52A6123X0001	GEMMA (AS)	90	17,170	12,710	191	255	418	67	5.06
A53A7123X0001	MAIA (AS)	128	26,080	19,300	204	461	582	67	11.06
A54A8123X0001	VEGA (AS)	192	39,120	28,950	204	461	582	67	11.41
A51B5123X0001	ALTAIR (ST)	48	9,780	7,240	204	255	418	67	4.66
A52B6123X0001	GEMMA (ST)	90	17,170	12,710	191	255	418	67	5.06
A53B7123X0001	MAIA (ST)	128	26,080	19,300	204	461	582	67	11.06
A54B8123X0001	VEGA (ST)	192	39,120	28,950	204	461	582	67	11.41
A51C5123X0001	ALTAIR (SY)	48	9,780	7,240	204	255	418	67	4.66
A52C6123X0001	GEMMA (SY)	90	17,170	12,710	191	255	418	67	5.06
A53C7123X0001	MAIA (SY)	128	26,080	19,300	204	461	582	67	11.06
A54C8123X0001	VEGA (SY)	192	39,120	28,950	204	461	582	67	11.41



PHOTOMETRIC LIGHT CURVES



ASYMMETRIC (AS)
ALTAIR/GEMMA/
MAIA/VEGA

STREET (ST)
ALTAIR/GEMMA/
MAIA/VEGA

SYMMETRIC (SY)
ALTAIR/GEMMA/
MAIA/VEGA

ABOUT US

TECHNOR ITALSMEA designs and manufactures customized explosion-proof solutions designed for use in classified areas with risk of explosion.

Established in 1969, for over 50 years, the company has been specializing in Ex d, Ex de, Ex e, and Ex p certified equipment, suitable for both onshore and offshore applications in the oil & gas, petrochemical, and chemical industries. TECHNOR®'s current portfolio includes LED lighting fixtures, signalling systems, distribution panels, junction boxes, local control stations, plugs, socket-outlets, connectors, and accessories.

Every TECHNOR® solution is engineered and manufactured in Italy and fully tailored to meet specific customer needs. All products comply with ATEX, IECEx, and TR-CU standards, ensuring unmatched safety, reliability, and durability in the most demanding environments.

TECHNOR ITALSMEA is a subsidiary of MARECHAL ELECTRIC, a global leader in low-voltage electrical connections for industrial environments and environments with potentially explosive atmospheres.



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