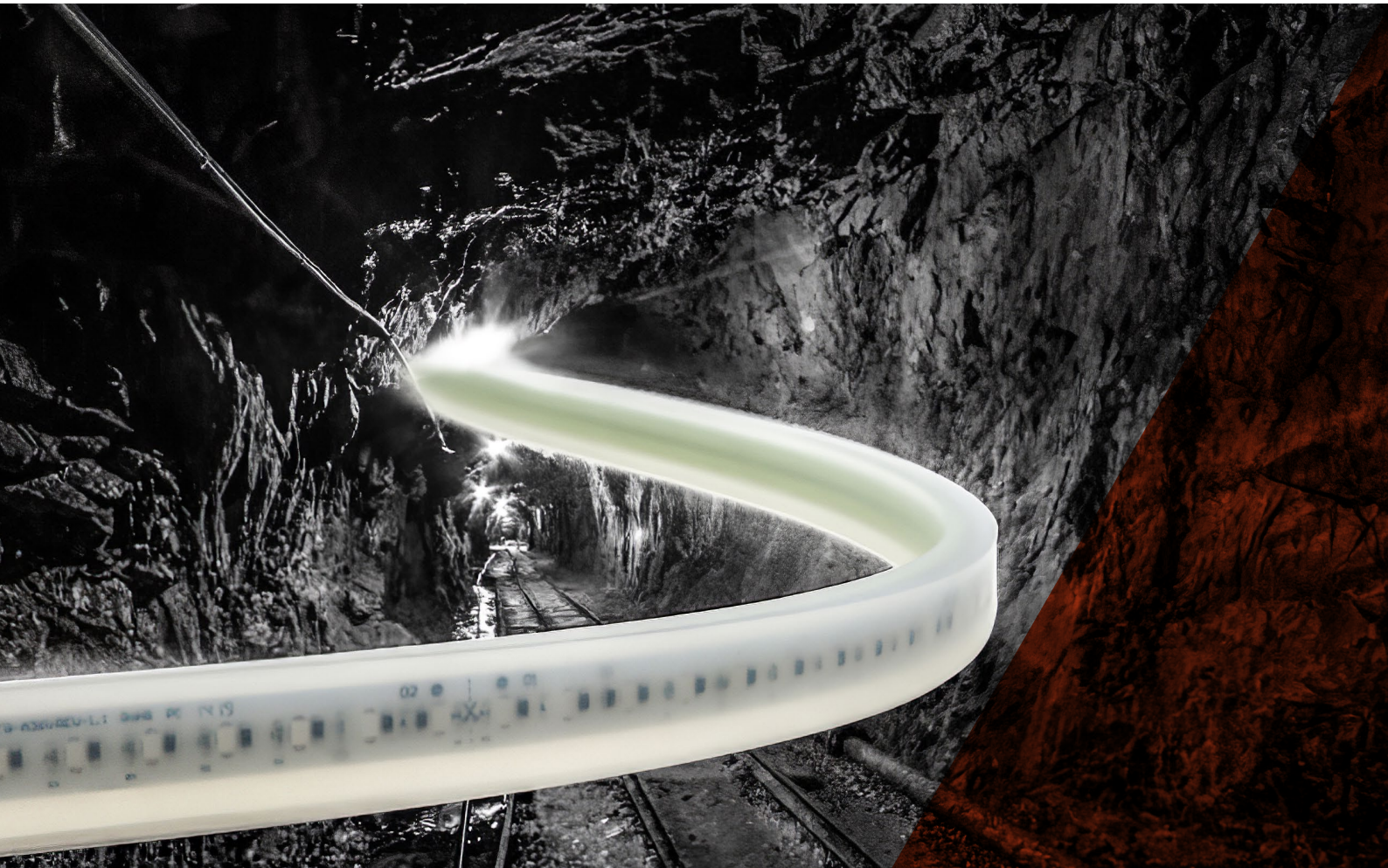# The first
explosive-proof
LED strip light

mineglow

Exceptional lighting for
Explosive environments

Mineglow Safety Solution: Explosive-Proof
LED Strip Lighting

Exceptional lighting for Explosive environments

x-Glo's Exm IECEx and ATEX certified lighting is purpose built to prevent explosions in oil refineries, underground mining, petrochemical plants and other volatile industrial applications.

This robust, zero harm safety solution combines the exceptional protection of IECEx certification with the proven efficiency and flexibility of Mineglow's premium industrial-grade LED strips.

CLASS 1 - GASES **ZONES 1-2**	**CLASS 2 - DUST** **ZONES 21-22**
SUBSTANCE FLAMMABLE GASES, VAPOUR OR LIQUIDS Acetylene, Hydrogen, Ethylene, Propane	SUBSTANCE COMBUSTIBLE DUSTS Conductive dust, non-conductive dust, combustible flyings
TYPICAL ENVIRONMENT ✓ Oil and gas drill rigs ✓ Oil and gas production platforms ✓ Oil and gas floating production ships (FSPO's) ✓ Product Distribution Terminals ✓ Liquid natural gas ships ✓ Liquefaction terminals ✓ Regasification terminals	TYPICAL ENVIRONMENT ✓ Underground coal mines ✓ Surface coal mines ✓ Industrial and storage facilities ✓ Grain silos ✓ Paint factories ✓ Paper and textile mills

Mineglow's Exm range isolates and contains sparks to prevent explosions from escaping and igniting gases, dusts, fibres and particles in hazardous atmospheres.
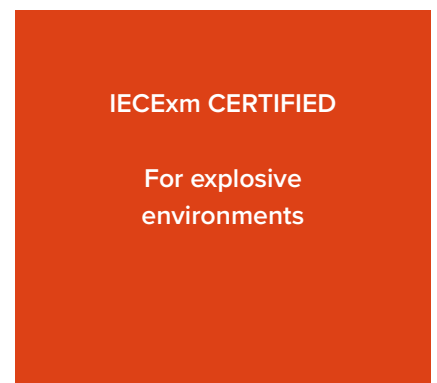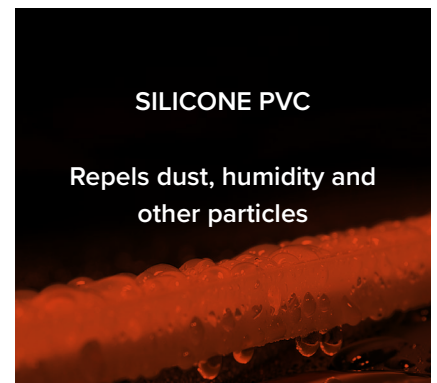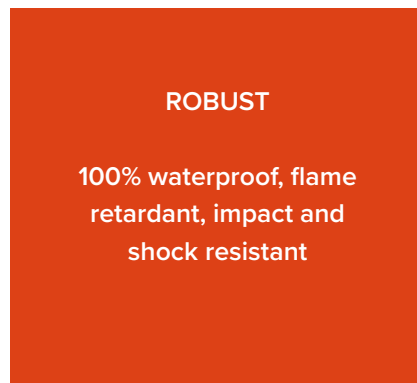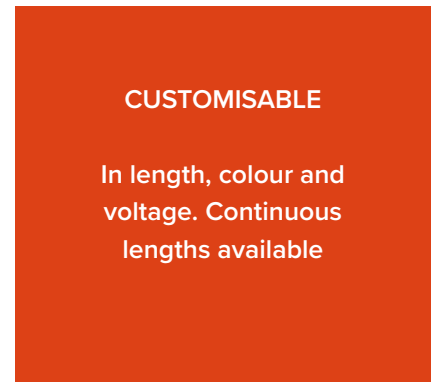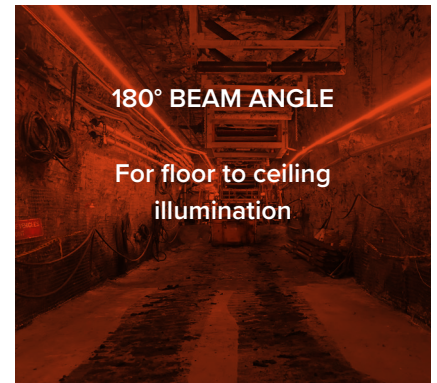
Flexible by design.
Flexible by nature.

Exm LED strip lighting delivers a highly flexible and customisable solution for applications where flammable and explosive substances are present.

- Choose custom lengths from 15 to 30 metres

- Select the voltage, level of illumination and colour for your application and work zone

- Install on any fixed or mobile surface including curved or uneven surfaces and corners

- Reach hard-to-reach places

Benefits

- Reduces catastrophic incidents by preventing sparks and ignition

- Withstands extreme vibration and impact

- Reduces installation, maintenance and operating costs

- Improves operational efficiency and sustainability

- Maximises workforce productivity and wellbeing

FLEXIBLE

For hard-to-reach places. Mountable on any surface

LONG LIFE SPAN

Up to 50,000 hrs backed with a five year warranty

FAST DEPLOYMENT

Simple, cost effective installation

180° BEAM ANGLE

For floor to ceiling illumination

SUSTAINABLE

Low energy LED chips technology

CUSTOMISABLE

In length, colour and voltage. Continuous lengths available

ROBUST

100% waterproof, flame retardant, impact and shock resistant

SILICONE PVC

Repels dust, humidity and other particles

ZERO MAINTENANCE

Save significant costs

IECExm CERTIFIED

For explosive environments

# Before and after installation
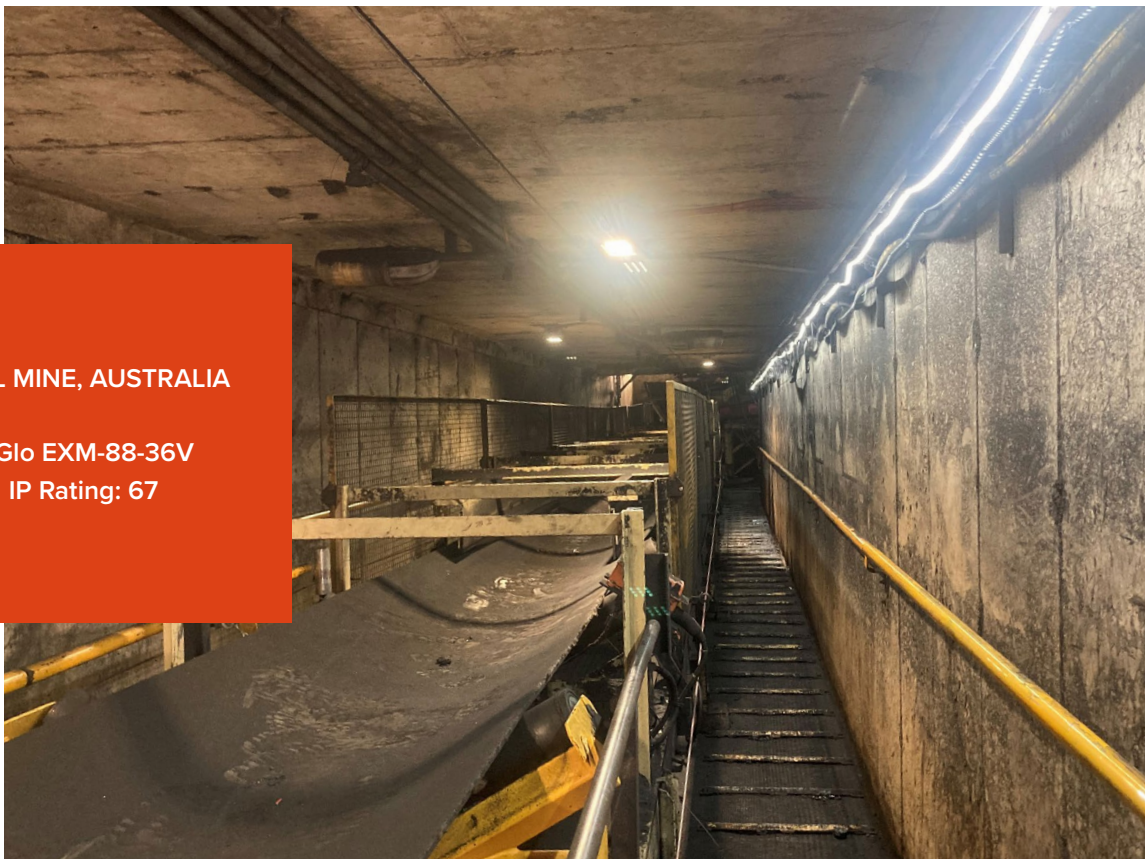
COAL MINE, AUSTRALIA

x-Glo EXM-88-36V
IP Rating: 67

At Mineglow, we've been specialising in tailor-made, premium-quality LED strip lighting for hazardous work environments since 2014.

Our robust solutions undergo rigorous testing, are fully certified and customisable to meet the needs of even the most challenging projects and environments.
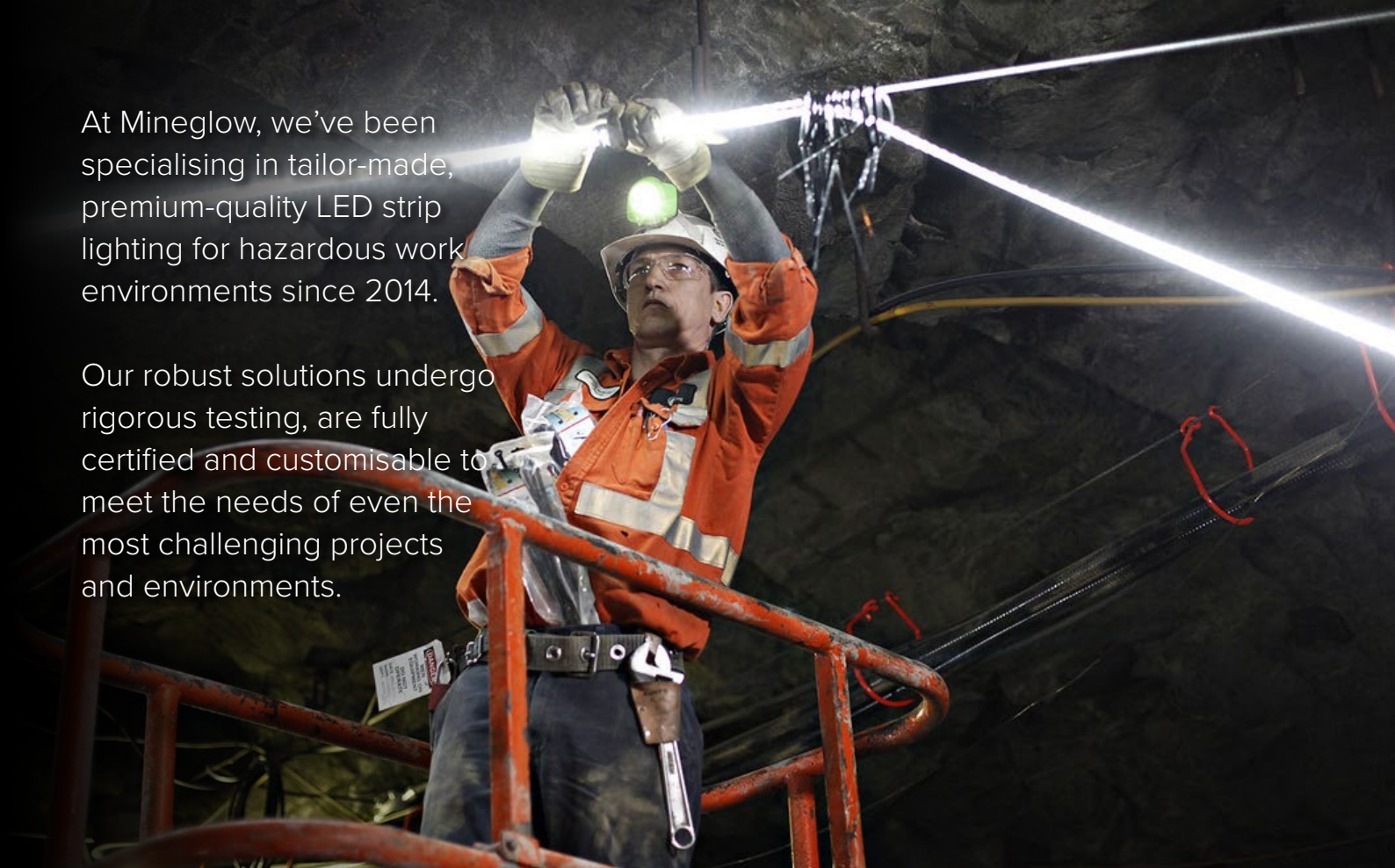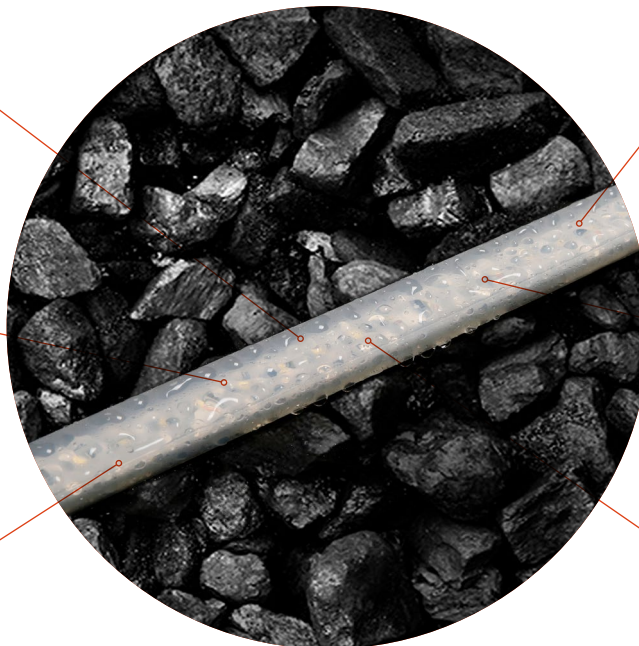
How it works

Every x-Glo Exm LED strip is fully encapsulated with silicone, has excellent anti-UV performance, operates at low/high temperatures and is low maintenance.

Copper belt reduces voltage drop

High quality, high brightness SMD LED chips available in 24V, 36V, 48V AC/DC

Double extruded layer of certified food grade, non-toxic and fire-retardant silicon contains any ignition or spark

Injection moulded connectors for IP67 water ingress protection

Flexible printed circuit board and inner protection layers

High quality matte finish to repel dust and fine particles

Mineglow's x-Glo LED lights will meet your required level of illumination, including full daylight conditions for maximum safety and productivity.

Specifications

Customisable to meet your needs. Choose your length, LED quantity, brightness and colour.

x-Glo Model No.	LED QTY/m	Lumen/m	Rated power/m	Other LED QTY Options	Colour
x-Glo-Exm-yy-48v-AC-xx	84	>900lm	12w	56, 28	6500k, Red, Green, Amber
x-Glo-Exm-yy-48v-DC-xx	84	>1000lm	12w	56, 28	6500k, Red, Green, Amber
x-Glo-Exm-yy-36v-AC-xx	88	>900lm	12w	66, 44, 22	6500k, Red, Green, Amber
x-Glo-Exm-yy-36v-DC-xx	88	>1000lm	12w	66, 44, 22	6500k, Red, Green, Amber
x-Glo-Exm-yy-24v-AC-xx	84	>900lm	12w	70, 56, 42	6500k, Red, Green, Amber
x-Glo-Exm-yy-24v-DC-xx	84	>1000lm	12w	70, 56, 42	6500k, Red, Green, Amber
x-Glo-Exm-yy-24v-DC-C-xx	42	150lm	3w	28, 14	RGA / RGB

Certifications

I M1 Ex ma 1 Ma;
(Group 1 mine, M1/M2, Ex ma - very high level of protection encapsulation)

II 1G Ex ma IICT6 Ga;
(Group II gases, 1G-Zone 1/2. Ex ma - very high level of protection encapsulation, Gas group IIC hydrogen/propane/acetylene)

II 2G Ex mb IIC T6 Gb;
(Group II gases, 2G-Zone 1/2, Ex mb - high level of protection encapsulation, Gas goup IIC hydrogen/propane/acetylene)

II 3G Ex mc IICT6 Gc;
(Group II gases, 3G-Zone 2, Ex mc - enhanced level of protection via encapsulation, Gas group IIC hydrogen/propane/acetylene)

II 2D Ex mb IIIC T80 C Db;
(Group II - dusts, 2D - Zone 21/22, Ex mb - high level op protection via encapsulation, Dust group IIIC -/conductive dust/ non conductive dust / Flammable flying catkins)

II 3D Ex mc IIICT80 C Dc;
(Group II - dusts, eD - Zone 22, Ex mc - high level of protection via encapsulation, Dust group IIIc - /conductive dust/non conductive dust/ Flammable flying catkins)

"The Mineglow product ticked all our boxes and has proven to be a good investment and improvement to the standards we strive for.

By introducing Mineglow's white LED strips in our substations, pump station and underground workshops, we have created a well illuminated, professional environment of the highest standard."

Electrical Superintendent
Gold Mine - Ghana, West Africa

Our promise

At Mineglow, we know that not all LEDs are created equally. That's why every Mineglow solution meets our stringent commitment to quality, safety and sustainability. Our QSS commitment underpins our reputation for excellence in everything we do - from research and development to customer service and support.

mineglow

Mineglow Exm range

QUALITY

SAFETY

SUSTAINABILITY

QUALITY
- ✓ Premium, industrial grade
- ✓ Rugged, purpose-built components
- ✓ Long lifespan of +50,000 hours
- ✓ Five-year warranty
- ✓ Independently tested
- ✓ Certified to local and international standards
- ✓ ATEX and IECEX approved
- ✓ Customisable
- ✓ After sales customer support

SAFETY
- ✓ 180° beam angle for floor to ceiling illumination
- ✓ Resistant to dust, chemicals and extreme temperatures
- ✓ Water resistant
- ✓ Fire retardant
- ✓ Three colours for hazardous zone identification
- ✓ Emergency pulse options
- ✓ Fast, simple installation for safe deployment

SUSTAINABILITY
- ✓ Low energy LED chips technology
- ✓ Zero maintenance

Contact us today

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Mineglow is the exclusive Asia Pacific distributor for x-Glo LED strip lighting

xGlo

mineglow.com.au