WALLMAX®

ATEX & IECEx

CERTIFICATION

Cable & Pipe Transit Sealing System

Certified explosion protection for cables and pipes passing through walls, enclosures, decks and bulkheads in potentially explosive atmospheres.

II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db

Sealing confidence

What is ATEX?

ATEX = “Explosive Atmospheres”

ATEX is the European framework (EU Directive 2014/34/EU) that governs equipment used in places where an explosive atmosphere — flammable gas, vapour or combustible dust — may be present. Any equipment installed in these areas must be designed, tested and certified so that it cannot become a source of ignition. Cable and pipe sealing systems are part of this: they maintain the integrity of enclosures and walls, preventing gases, dust or flames from passing through cable and pipe entry points.

European Directive	Prevents ignition	Mandatory in the EU
2014/34/EU	**By design**	**Legally required**

WHY IT MATTERS

Protects people
Prevents fires and explosions that endanger lives on site.

Protects assets
Avoids catastrophic damage to plant and infrastructure.

Ensures compliance
Certified equipment is required to operate legally in the EU.

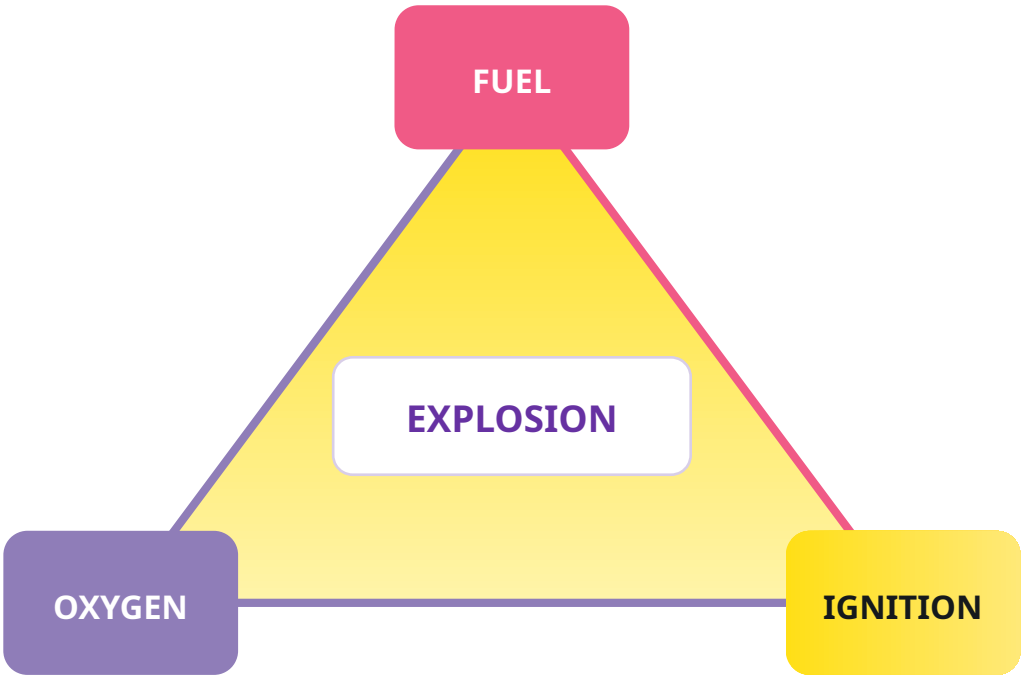
Enables trade
IECEx extends the same confidence internationally.

Sealing confidence

Why sealing matters: the explosion triangle

An explosion needs three ingredients at once. Remove any one and it cannot happen. Sealing systems help by keeping fuel (gas/dust) out of enclosures and by not introducing ignition.





Flammable substance

The fuel — gas, vapour, dust or fibres.

Oxidiser

Supports combustion — usually oxygen in air.

Ignition source

Heat, sparks, flames or static electricity.

Sealing confidence

Hazardous area zones

Areas are classified by how often an explosive atmosphere is present. Gas zones (0/1/2) and dust zones (20/21/22) each map to an equipment category.

Presence of explosive atmosphere	Gas	Dust	ATEX category
Continuous Explosive atmosphere present continuously or for long periods	Zone 0	Zone 20	Category 1
Occasional Likely to occur in normal operation	Zone 1	Zone 21	Category 2
Rare / short Not likely in normal operation; only briefly if it does	Zone 2	Zone 22	Category 3

WallMax® is certified Category 2 (Zone 1 / Zone 21) — which also covers the lower-risk Category 3 (Zone 2 / Zone 22).

Sealing confidence

ATEX vs IECEx — what's the difference?

Both certify equipment for explosive atmospheres against the same technical basis (the IEC 60079 series). ATEX is the EU legal route; IECEx is the international passport.

	ATEX	IECEx
Full name	Explosive Atmospheres	Intl. Electrotechnical Commission – Explosive
Framework	EU Directive 2014/34/EU	IECEx Scheme (IEC 60079 series)
Scope	Mandatory across the European Union	Global, voluntary — widely accepted worldwide
Marking	CE mark + Ex marking	IECEx certificate no. + Ex marking
Standards	EN (European Norm) standards	IEC (international) standards

WallMax® holds BOTH — ATEX for Europe and IECEx for the rest of the world — giving you one product accepted worldwide. However, national or local regulatory approvals and installation requirements may still apply. WallMax® is ECAS certified for the UAE market, confirming compliance with the applicable Emirates Conformity Assessment Scheme (ECAS) requirements.

Sealing confidence

Decoding the Ex-marking

Every certified product carries a marking string. Here is the WallMax® Ex marking, decoded piece by piece:



Code	Meaning
II	Equipment group
2	Category (Zone 1/21)
G	Gas atmosphere
Ex	Explosion protected
eb	Increased safety ·e·
IIC	Gas group (most severe)
IIIC	Dust group (most severe)
Gb	Protection level (Zone 1)
-40...+80°C	Ambient temp range

FULL WALLMAX® MARKING

II 2 GD — Group II, Category 2, for Gas and Dust

Ex eb IIC Gb — Increased safety, gas group IIC, Zone 1

Ex tb IIIC Db — Dust protection by enclosure, Zone 21

Sealing confidence

ATEX requirements for cable & pipe sealing

To be certified for hazardous areas, a cable and pipe transit seal must satisfy several essential requirements. WallMax® is tested and approved against each one.

Recognised protection concept

Increased safety “eb” for gas and dust protection by enclosure “tb” — tested to IEC/EN 60079-7 & -31.

Contain gas, dust & flame

Seal cable/pipe entries so flammable gas, combustible dust or flame cannot pass through the barrier.

Proven ingress protection

Independently rated to IP66 / IP68 to keep water and dust out of the enclosure.

Defined temperature range

Certified across a stated ambient range — here –40 °C to +80 °C.

No ignition source

Anti-static handling and correct compression torque so the seal never becomes an ignition path.

Third-party certification

Assessed and certified by a Notified Body / IECEx Certification Body — not self-declared.

Sealing confidence

WallMax® ATEX & IECEx certifications

ATEX

EU-Type Examination

ETL24ATEX0397X Issue 00

ISSUED	25 Sep 2024
CERTIFIED BY	Intertek Testing Services NA Ltd. Notified Body 2903
FRAMEWORK	Directive 2014/34/EU

IECEx

Certificate of Conformity

IECEx ITS 24.0016X Issue 0

ISSUED	25 Sep 2024
CERTIFIED BY	Intertek Testing & Certification Ltd. United Kingdom
FRAMEWORK	IECEx Scheme – IEC 60079

TESTED TO

EN IEC / IEC 60079-0 • 60079-7 (increased safety) • 60079-31 (dust)

“X” special conditions of use apply — see the data sheet.

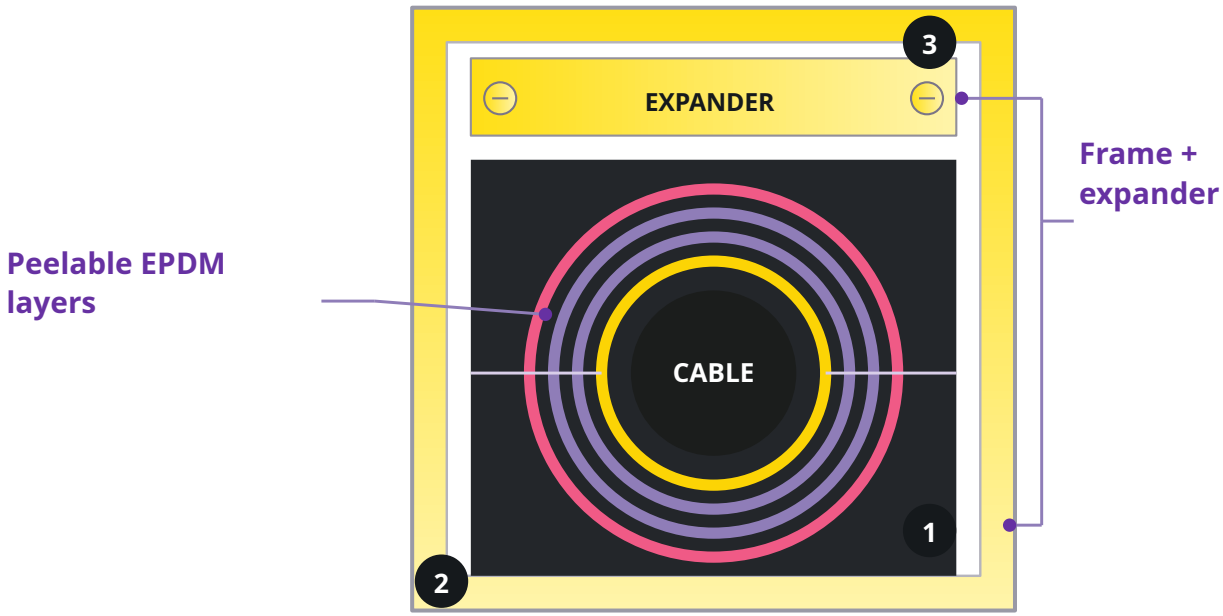
Sealing confidence

How the WallMax® seal works

Three simple elements combine to form a certified, gas- and dust-tight barrier around each cable or pipe.

SEALED TRANSIT — CROSS-SECTION

Schematic — not to scale



1 EPDM rubber modules

Peelable multi-layer blocks. Remove layers to match the exact cable or pipe diameter.

2 Metal or plastic frame

Stainless steel, mild steel, aluminium or plastic frames hold the modules in the opening.

3 Expander + bolts

Compresses the modules to form a tight seal. Torque is checked at operating temperature.



Sealing confidence

Multicolour layers, read at a glance

The re-openable system uses a four-colour sequence to make cable preparation and seal inspection more intuitive.



SUBITISING

Recognising a small number of items immediately, without counting.

Four layers become one recognisable sequence.

SELECT — Fast, intuitive layer selection that helps reduce counting errors.

INSPECT — Matching colour bands make it easy to verify that both module halves have been peeled to the same layer.

Variable diameter • **Re-openable and re-usable** • **No curing time**

Sealing confidence

Key features

Variable-diameter modules

Peelable EPDM layers adapt one seal to many cable/pipe sizes.

Huge frame range

Rectangular, round, flanged, openable, mini & gland variants.

Dual certified

ATEX + IECEx, Ex eb IIC Gb / Ex tb IIIC Db.

IP66 / IP68

High ingress protection against water and dust.

Wide temp range

-40°C ≤ Ta ≤ +80 °C

Multi-material frames

Stainless / mild steel, aluminium or plastic to suit any site.

Re-openable & reusable

Add or remove cables later without cutting the seal out.

Multi-cable capacity

Single or multiple openings in one compact frame.

Sealing confidence

Key benefits for your project

What the features mean in practice — for safety, cost and operations.

Certified safety

Independent ATEX & IECEx approval means proven protection — not a claim.



Lower total cost

One modular system replaces many fixed glands and reduces spares inventory.



Faster, simpler install

Peel-to-fit modules and re-openable frames speed up installation and future changes.



AT A GLANCE

- ✓ Protects people, assets & uptime
- ✓ Adapts to almost any cable/pipe size
- ✓ Water- & dust-tight (IP66 / IP68)
- ✓ One product accepted worldwide
- ✓ Re-enterable for future changes
- ✓ Backed by third-party test reports

Sealing confidence

Typical applications

WallMax® seals cable and pipe penetrations across onshore, offshore and marine hazardous-area installations.

Walls & partitions

Sealing penetrations through building and fire-rated walls.

Enclosures & panels

Junction boxes, control panels and equipment cabinets.

Decks & bulkheads

Marine and offshore structures, above and below deck.

Oil, gas & process

Refineries, chemical plants and process industries.

A FRAME FOR EVERY OPENING

WMR Ex	WMS Ex	WMC Ex	WMSC Ex	WE Ex
WRP Ex	WEC Ex	WRPC Ex	SLVWRS Ex	SLVFWRS Ex
SLVWR Ex	SLVFWR Ex	WRF Ex	WRFF Ex	WRFFL Ex
WRHFF Ex	WRHFFL Ex	WRF2 Ex	WRFD Ex	WRFO Ex
WRFFO Ex	WRHFFO Ex	WRFFLO Ex	WRHFFLO Ex	WMF Ex
WRS Ex	WR Ex	WRFR6 Ex	WRFR4 Ex	WRFR2 Ex
WMF PA Ex	WM mini Front Ex	WM mini Top Ex	WM mini Back Ex	WFC Ex
WMG Ex				

Rectangular · round · flanged · openable · compact · cable glands

Sealing confidence

Specification at a glance

Parameter	Specification
PRODUCT	Cable & pipe transit sealing devices
SEALING ELEMENT	Peelable multi-layer EPDM rubber modules
FRAME MATERIALS	Stainless / mild steel, aluminium, plastic
PROTECTION CONCEPT	Ex eb (increased safety) + Ex tb (dust)
MARKING	II 2 GD • Ex eb IIC Gb • Ex tb IIIC Db
GAS / DUST GROUP	IIC / IIIC
EQUIPMENT PROTECTION	Gb (gas) / Db (dust) — Zone 1 / 21
INGRESS PROTECTION	IP66 (rectangular) / IP68 (round)
AMBIENT TEMPERATURE	–40 °C ≤ Ta ≤ +80 °C
CERTIFICATION	ATEX ETL24ATEX0397X • IECEx ITS 24.0016X

Full details, frame drawings and special conditions of use are provided in the WallMax® technical data sheet.

Sealing confidence

Certified. Sealed. Protected.

A single modular sealing system — ATEX and IECEx certified — that keeps flammable gas, combustible dust and flame where they belong.

II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db

IP66 / IP68

–40...+80°C

Thank you

Sealing confidence

ATEX & IECEx CERTIFICATION

Contact us

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Sealing confidence