

The background of the entire page is a photograph of a long, arched stone corridor, likely from a medieval or Gothic building. The corridor features a series of pointed arches supported by columns. On the left, there is a row of windows with decorative tracery. At the far end of the corridor, a large, dark wooden door with metal studs is visible. The lighting is warm, highlighting the texture of the stone.

EDOBURG

# PEX Piping Systems

Europe – UNI EN ISO 15875



# About Edoburg

Edoburg is a structured, multi-category global supplier of certified infrastructure materials, serving contractors, distributors, and institutional buyers across regulated global markets. A division of **Edoburg Downes Pvt. Ltd.**, the company operates with a clear focus on tested quality, export compliance, and long-term delivery consistency.

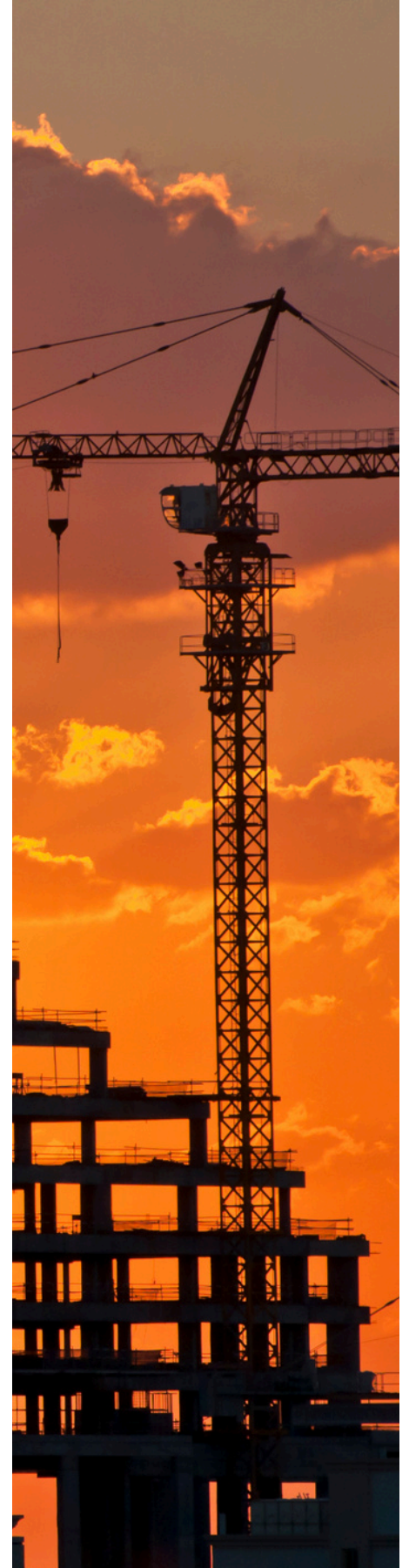
Our product portfolio spans over 10,000 SKUs across a wide range of categories including plastic piping systems, thermoplastic and composite pipelines, metal pipes and sections, drainage and utility systems, industrial components, and specialized engineered solutions for global projects.

All Edoburg-supplied products are manufactured in audited facilities and conform to international standards such as ASTM, CSA, ISO, IS, AS/NZS, and EN, depending on the target market. Each order is backed by full documentation support — including batch test reports, packing lists, Certificates of Origin, and private labelling when required.

We operate with export-ready processes, offering mixed container loads, low or no minimum order quantity, and market-specific packaging and compliance labelling. Our systems are designed to meet the expectations of professional buyers who require traceability, repeatability, and standardization across multiple geographies.

With clients across North America, Europe, the Middle East, Africa, and Asia-Pacific, Edoburg is positioned as a dependable global supplier — combining technical competence with structured commercial execution.

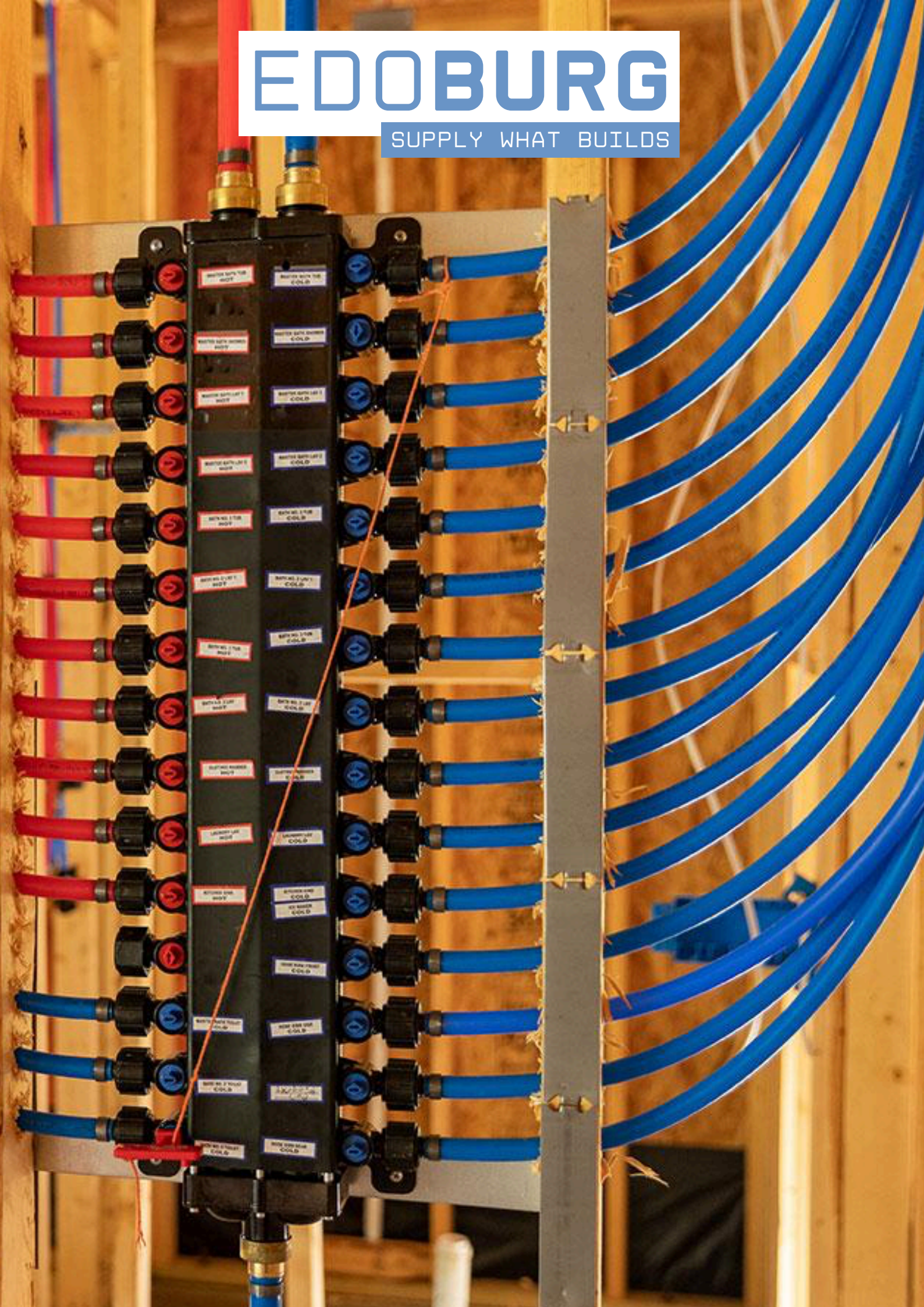
We don't just deliver material. **We supply what builds.**





# EDOBURG

SUPPLY WHAT BUILDS





# Technical & Properties Sheet

## PEX Piping Systems – UNI EN ISO 15875

Manufacturing Origin: China

### Standards & Approvals

- Standards (pipe): UNI EN ISO 15875-2
- Product certification: AENOR (scope as marked)
- Marking: CE (where applicable to the product’s legal scope)
- Barrier variants (hydronics): Oxygen-diffusion performance statement per DIN 4726 on EVOH SKUs

### Materials & Construction

- PEX-b single-layer pipe (silane/moisture-cure crosslinking).
- PEX-b EVOH multi-layer with co-extruded EVOH oxygen barrier and tie layers (barrier location per product drawing).
- Colour coding per product line; supplied in coils and straight lengths.

### Key Compliance & Tests

- Pipe requirements: UNI EN ISO 15875-2 (materials, dimensions, performance, marking).
- System methodology: Design classes and temperature/pressure envelope per EN ISO 15875 (Classes 1/2/4/5).
- AENOR certification: Product conformity to EN ISO is verified within the certificate scope.
- CE marking: Applied where the product falls under applicable EU legislation; marking is printed on the product and documents.
- Typical referenced test methods (as applicable):
  - Long-term hydrostatic strength: ISO 1167 series
  - Degree of crosslinking: ISO 10147
  - Thermal stability (OIT): ISO 11357-6
  - Heat reversion: ISO 2505
  - Dimensions & tolerances: per EN ISO 15875-2
  - Joint performance: per qualified fitting system documentation
  - Oxygen barrier performance (EVOH): DIN 4726

### Dimensional Series & SDR (metric OD)

- Series: Metric outside diameters per EN ISO 15875

OD (mm)	SDR 9 Wall e (mm)	SDR 9 ID (mm)	SDR 7.4 Wall e (mm)	SDR 7.4 ID (mm)
16	1.78	12.44	2.16	11.68
20	2.22	15.56	2.7	14.6
25	2.78	19.44	3.38	18.24
32	3.56	24.88	4.32	23.36
40	4.44	31.12	5.41	29.18
63	7	49	8.51	45.98

# Physical & Mechanical Properties

Values are typical at -23 °C for commercial PE-X compounds; acceptance is per UNI EN ISO 15875 methodology and the product's AENOR/CE scope.

**Material:** Cross-linked polyethylene (PE-X) — PEX-b (silane/moisture-cure). PEX-b EVOH includes a co-extruded EVOH oxygen-barrier layer; base mechanicals are unchanged.

Property	Unit	PEX-b	PEX-b EVOH
Density	g/cm <sup>3</sup>	0.94-0.95	0.94-0.95
Tensile strength (approx. yield/ultimate)	MPa	20-27	20-27
Elongation at yield	%	~10	~10
Elongation at break	%	≥200 (often 250-400)	≥200 (often 250-400)
Secant tensile modulus	MPa	550-700	550-700
Impact strength (Charpy, un-notched)	—	No break	No break
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	8-12	8-12
Shore hardness	D	55-60	55-60
Ball indentation hardness	MPa	35-45	35-45
Mean coeff. of linear thermal expansion, α	K <sup>-1</sup>	(1.5-2.0)×10 <sup>-4</sup>	(1.5-2.0)×10 <sup>-4</sup>
Thermal conductivity	W/(m·K)	~0.35	~0.35
Dielectric strength	kV/mm	25-35	25-35
Surface resistivity	Ω	≥1×10 <sup>15</sup>	≥1×10 <sup>15</sup>
Combustibility	—	Combustible thermoplastic	Combustible thermoplastic
Chemical resistance	—	Good vs. potable water, glycols; verify media	Same
Recommended service temperature*	°C	0...95 (application-dependent)	0...95 (application-dependent)

\* Use the product's pressure-temperature ratings and class designations per EN ISO methodology (Classes 1/2/4/5).

# PEX-b Pipes

Standard: UNI EN ISO 15875

Certification:



## PEX-b Pipes – UNI EN ISO 15875

Spec.	Length (m)		Color
	Roll	Straight	
16x1.8	200/500	4m	Blue/Red/White/Purple
16x2.0	200/500	4m	Blue/Red/White/Purple
20x1.9	100/200	4m	Blue/Red/White/Purple
20x2.0	100/200	4m	Blue/Red/White/Purple
25x2.3	50/100	4m	Blue/Red/White/Purple
25x2.5	50/100	4m	Blue/Red/White/Purple
32x2.9	50/100	4m	Blue/Red/White/Purple
32x3.0	50/100	4m	Blue/Red/White/Purple

## EVOH PEX-b Pipes – UNI EN ISO 15875

Spec.	Length (m)		Color
	Roll	Straight	
16x1.8	200/500	4m	Blue/Red/White/Purple
16x2.0	200/500	4m	Blue/Red/White/Purple
20x1.9	100/200	4m	Blue/Red/White/Purple
20x2.0	100/200	4m	Blue/Red/White/Purple
25x2.3	50/100	4m	Blue/Red/White/Purple
25x2.5	50/100	4m	Blue/Red/White/Purple
32x2.9	50/100	4m	Blue/Red/White/Purple
32x3.0	50/100	4m	Blue/Red/White/Purple

# Storage, Handling & Transportation

(Applicable to PEX-a, PEX-b, and EVOH oxygen-barrier variants)

## Storage

- Environment: Dry, clean, shaded; avoid ozone sources (motors, welders), solvents, open flame, and radiant heat.
- Temperature conditioning: Keep between +5 °C and +40 °C for storage; if product has been below +5 °C, allow 12–24 h at room temperature before uncoiling.
- UV exposure: Store under cover; if outdoor staging is unavoidable, use opaque tarps with air gaps. (Follow product label for any time limits.)
- Stacking (coils): Keep pallets level; “eye-to-sky”; do not cantilever. Max 2 pallets high unless packaging says otherwise.
- Racking (sticks): Full-length support at  $\leq 1.5$  m spacing; end caps on; no point loads.
- Segregation: Keep EVOH coils separate; avoid sharp edges or abrasive contact that could scuff the barrier.

## Handling

- Lifting: Move palletized product only; use fork tines long enough to fully support the pallet width; no hooks through coil eyes.
- Uncoiling (recommended): Use an uncoiler. If manual, lay coil flat, cut ties one at a time, pull from the center, rotate coil as pipe pays out.
- Bending: Respect minimum cold bend radius (use the more conservative of your product spec or  $\geq 8 \times OD$ ). Do not bend within  $8 \times OD$  of a fitting.
- Kinks:
  - PEX-a: Limited heat-memory repair is possible with a controlled hot-air gun (no open flame) per product instructions.
  - PEX-b: Cut out kinked section and couple—do not heat-repair.
- Cleanliness: Keep ends capped until jointing; prevent dirt, grit, or moisture from entering.
- Abrasion/impact: Use corner/edge protectors where strapping touches; do not drag across concrete, steel, or scaffolding.

## Transportation

- Palletization: Ship in original packaging; shrink-wrap intact; corner boards on coil pallets.
- Load securement: Use wide fabric straps with corner protectors; tighten to prevent movement without deforming the pipe.
- Orientation: Coils vertical (“eye-to-sky”); sticks fully supported—no overhang beyond tray/racks.
- Cover: Protect from sun, road grime, and exhaust heat; maintain airflow under tarps to avoid heat build-up.
- Mixed loads: Separate from solvents, fuels, adhesives, or chemicals that could attack polymers or the EVOH layer.

## EVOH Oxygen-Barrier — special care

- Do not sand, scrape, or score the barrier surface.
- Avoid adhesive tapes directly on the barrier layer; use low-tack film or banding over protective wrap.
- If barrier is visibly breached, treat as damaged: cut back to sound material.

## Quick DO / DON'T

- DO: store under cover; keep ends capped; use uncoilers; protect edges; follow bend radii.
- DON'T: expose to prolonged UV; stack unevenly; strap too tightly; heat with open flame; attempt kink heat-repair on PEX-b; drag coils/sticks over abrasive surfaces.

Note: Numerical limits above are conservative best practice for thermoplastic pressure pipe. Where your product sheet specifies different values (e.g., tighter bend radius, permitted pallet stacks, UV limits), the product sheet governs.



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