EDOBURG

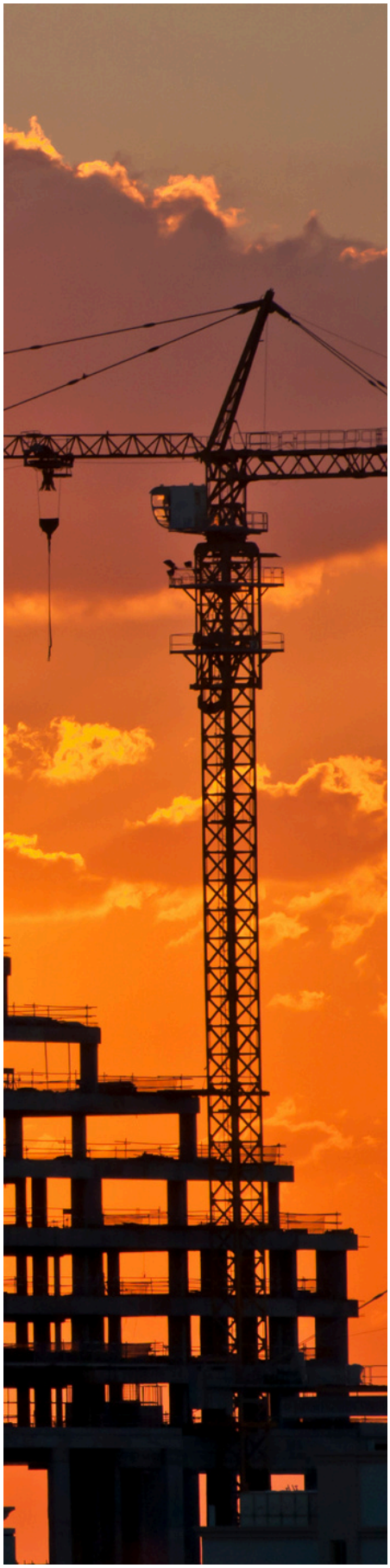
GLOBAL CATALOGUE

PEX Piping Systems

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**.

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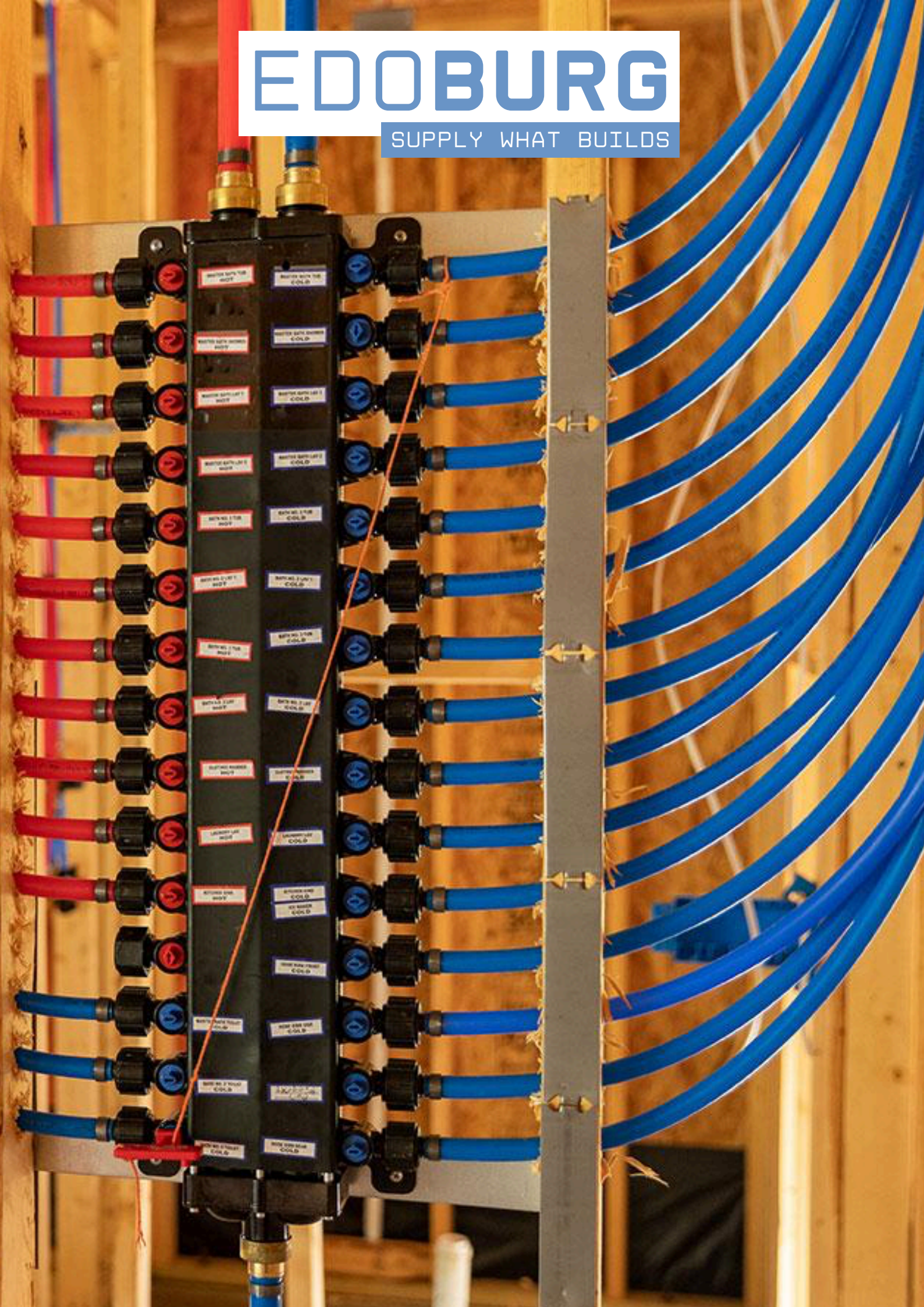
SUPPLY WHAT BUILDS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Technical & Properties Sheet

PEX Piping Systems – ISO 15875

Manufacturing Origin: India

Standards & Approvals

- Standards: ISO 15875-1 (General) • ISO 15875-2 (Pipes)

Materials & Construction

- PEX-a (peroxide/Engel crosslinking), single-layer pipe.
- Supplied in coils and straight lengths; color coding per product line.

Key Compliance & Tests

- Pipe requirements: ISO 15875-2 (materials, dimensions, performance, marking).
- System methodology: ISO 15875-1 (definitions, service classes 1/2/4/5, design principles).
- Typical referenced 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 & measurement: ISO 3126

Dimensional Series & SDR (metric OD)

- Series: Metric outside diameters per ISO 15875-2
- Common SDRs: SDR 9 and SDR 7.4

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 PEX-a compounds and are provided for engineering guidance. Acceptance and design are per ISO 15875 methodology.

Material: Cross-linked polyethylene PEX-a (peroxide/Engel).

Property	Unit	PEX-a
Density	g/cm^3	0.94–0.95
Tensile strength (approx. yield/ultimate)	MPa	20–27
Elongation at yield	%	~10
Elongation at break	%	⩾300 (often 350–500)
Secant tensile modulus	MPa	500–700
Impact strength (Charpy, un-notched)	—	No break
Notched impact strength (Charpy)	kJ/m^2	8–12
Shore hardness	D	55–60
Ball indentation hardness	MPa	35–45
Mean coefficient of linear thermal expansion, α	K^{-1}	$(1.5–2.0)\times10^{-4}$
Thermal conductivity	W/(m·K)	~0.35
Dielectric strength	kV/mm	25–35
Surface resistivity	Ω	$\geqslant 1\times10^{15}$
Combustibility	—	Combustible thermoplastic
Chemical resistance	—	Good vs. water, glycols; verify media
Recommended service temperature*	°C	0…95 (application-dependent)

* Use the product's pressure–temperature ratings and ISO class designations (Classes 1/2/4/5) for selection.

PEX-a Pipes

Standard: ISO 15875-1 (General) • ISO 15875-2 (Pipes)

PEX-a Pipes (Coil)

Size (mm)	Length (meter)	Color	Pkg.
16 x 1.8	100	White	100m
20 x 1.9	100	White	100m
25 x 2.3	50	White	50m
32 x 2.9	50	White	50m

PEX-a Pipes (Straight Length)

Size (mm)	Length (meter)	Color	Pkg.
16 x 1.8	5	White	50
20 x 1.9	5	White	40
25 x 2.3	5	White	25
32 x 2.9	5	White	15

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 ⩽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 ⩾8 × OD). Do not bend within 8 × 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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