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ONE BRAND
ONE SYSTEM
ONE WARRANTY

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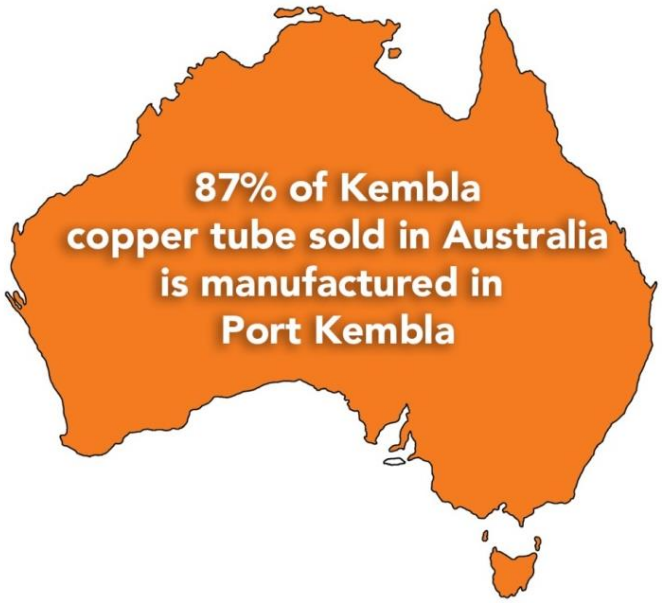
MM Kembla by the numbers



26%
EXPORT

+1,000
DELIVERIES
PER WEEK

2,000
LOCATIONS

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Benefits of a Kembla Integrated Piping System

A SYSTEM OF PRODUCTS FROM ONE TRUSTED AND RENOWNED AUSTRALIAN PIPING SYSTEM BRAND

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MM KEMBLA QUALITY RELIABILITY SERVICE 100 YEARS

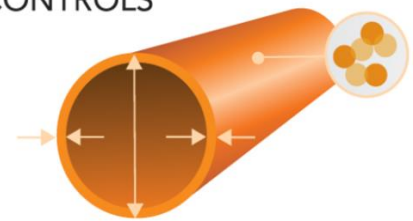
A COMPANY WITH A REPUTATION FOR QUALITY, RELIABILITY & SERVICE FOR OVER 100 YEARS

BACKED BY A LOCAL TRUSTED PROJECT WARRANTY

HAVE AN ISSUE?

ENJOY PEACE OF MIND BY DEALING WITH ONE SUPPLIER, NOT MULTIPLE.

CERTIFIED AND MANUFACTURED TO STRICT MM KEMBLA QUALITY CONTROLS



Certified System
Quality
ISO 9001
SAI GLOBAL

SUPPORTED BY A DEDICATED TECHNICAL TEAM OFFERING YOU PRODUCT & DESIGN SUPPORT

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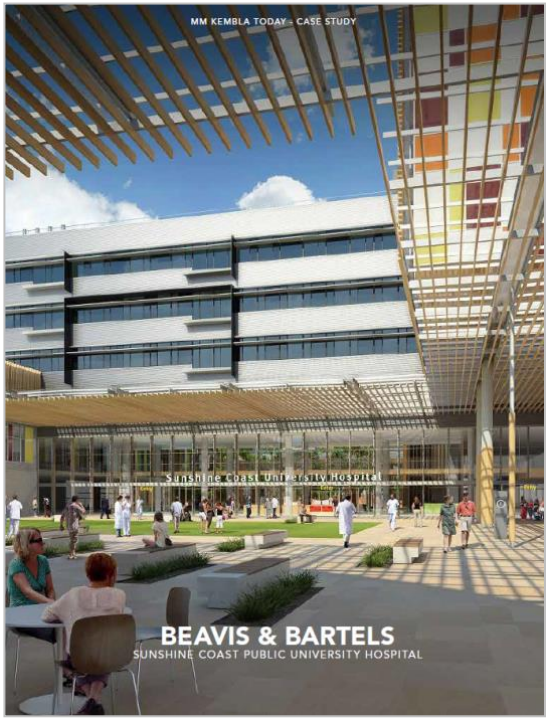
Sunshine Coast Public University Hospital $1.8Bn Development

- Over 130 tonne of Kembla copper tube for plumbing, mechanical and medical gas
- Over $1M (~70k units) of KemPress fittings and tools used by Beavis & Bartels
- One Kembla System 25 year warranty provided for the entire installation
- Kembla offered a long-term fixed price to control project costs
- Kembla performed regular training of all operators, on-site inspections and close contact with Beavis & Bartels throughout the lifecycle of the project



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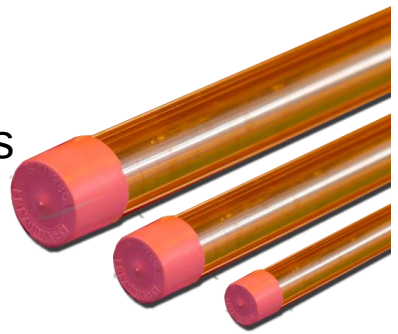
Kembla Copper Tube

- Built on over 100 years manufacturing experience, Kembla copper tube is produced to the highest MM Kembla and international standards
- We only use LME A Grade copper cathode from Australian mines (e.g. BHP Olympic Dam in SA)
- Manufactured to:
  - **AS1432**: Plumbing & Gas
  - **AS1571**: HVAC/Refrigeration/Medical Gas
  - **AS1572**: Engineering & OEM
  - **AS4041**: Extra Strength HP (60 / 130 bar)
- All tube manufactured and sourced is tested as part of Kembla's QMS
- Supplied in sizes: **4.76mm – 254mm**



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Tube Quality

- Achieving *certification* does not ensure *consistent quality*
- Tested 80 random samples and found **90%** did not conform to: ***Wall Thickness***, ***OD***, ***Eccentricity***, ***Hardness***, ***Composition***, ***Marking/Identification*** & ***Cleanliness*** requirements as per AS
- Significant variance in tube wall thickness results in unequal distribution of the press force of the pressing tool, reducing the tube structural integrity
- Wall thickness can show under pressing with pinching or tube collapse often evident

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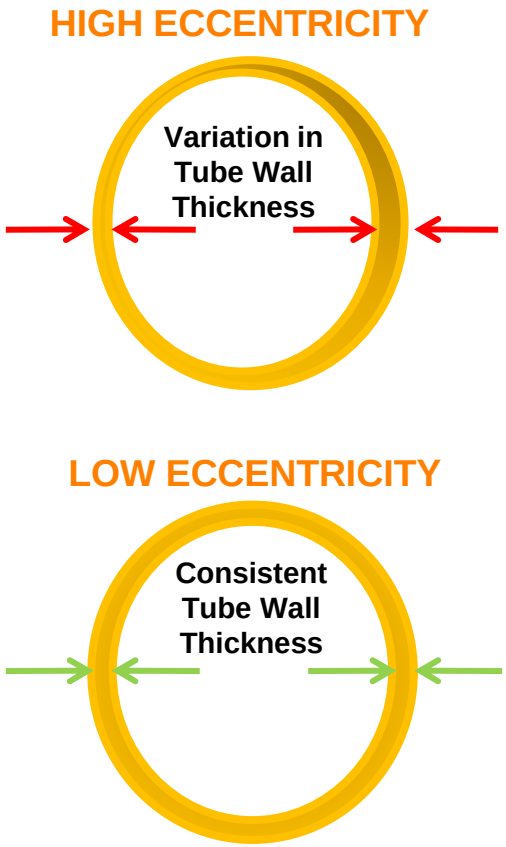
The Kembla Copper Tube Difference

- MM Kembla has a strong focus on controlling **tube eccentricity**
- Eccentricity is the degree of variation in tube wall thickness
- Strict process controls and tool maintenance prevents high eccentricity
- Requires monitoring of wall thickness during the entire tube drawing process from extrusion to drawing
- Low eccentricity even more critical when using **press fittings**: Equal distribution of press force requires consistent wall thickness to avoid tube collapse



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Kembla 316L Stainless Steel Tube

Kembla Stainless Steel tube is **316L grade** (EN1.4404) complying with DIN EN10088, fabricated according to DIN EN10312 & DVGW-W541

- **Improved corrosion resistance** (Combined low carbon (<0.03%) with a minimum Molybdenum content level of 2.3%)
- **Roll formed** & **TIG welded**
- **Full annealing** (after roll forming & welding):
  - Cleans the tube
  - Eliminates cold working stresses
  - Softens material for optimum press formation
  - Restores optimal condition for corrosion resistance and ductility

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Fittings

MM Kembla offers a range of high quality copper, copper alloy and 316L stainless steel fittings for plumbing, gas, and HVAC-R applications.

All fittings for plumbing are Watermark certified and produced to AS3688 requirements.

Extensive testing performed at MM Kembla's lab in Port Kembla, NSW.

1. ***KemPress Copper*** & Copper Alloy Press Fittings
2. ***KemPress Stainless*** Steel Press Fittings
3. Kembla Copper Capillary Fittings
4. Kembla ***RefHP*** Fittings

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Press Fittings

- **Push and Stay**
  - DN15-50 fitting is tight enough to complete rough in before pressing
  - Ensures plumber has right design & tube placement prior to pressing and assists with insertion depth
- **Universal Compatibility:**
  - To work w/ AS1432 copper tube and other approved press-fit tools
- **Lead-Free Silicon Bronze**
  - Safe & hygienic - no lead leaching
- **Stainless Fittings**
  - High corrosion resistance
  - Suitable for High Pressure application up to 40 bar SWP
- **Suitable O-rings**
- **KemGuard (Leak Path)**

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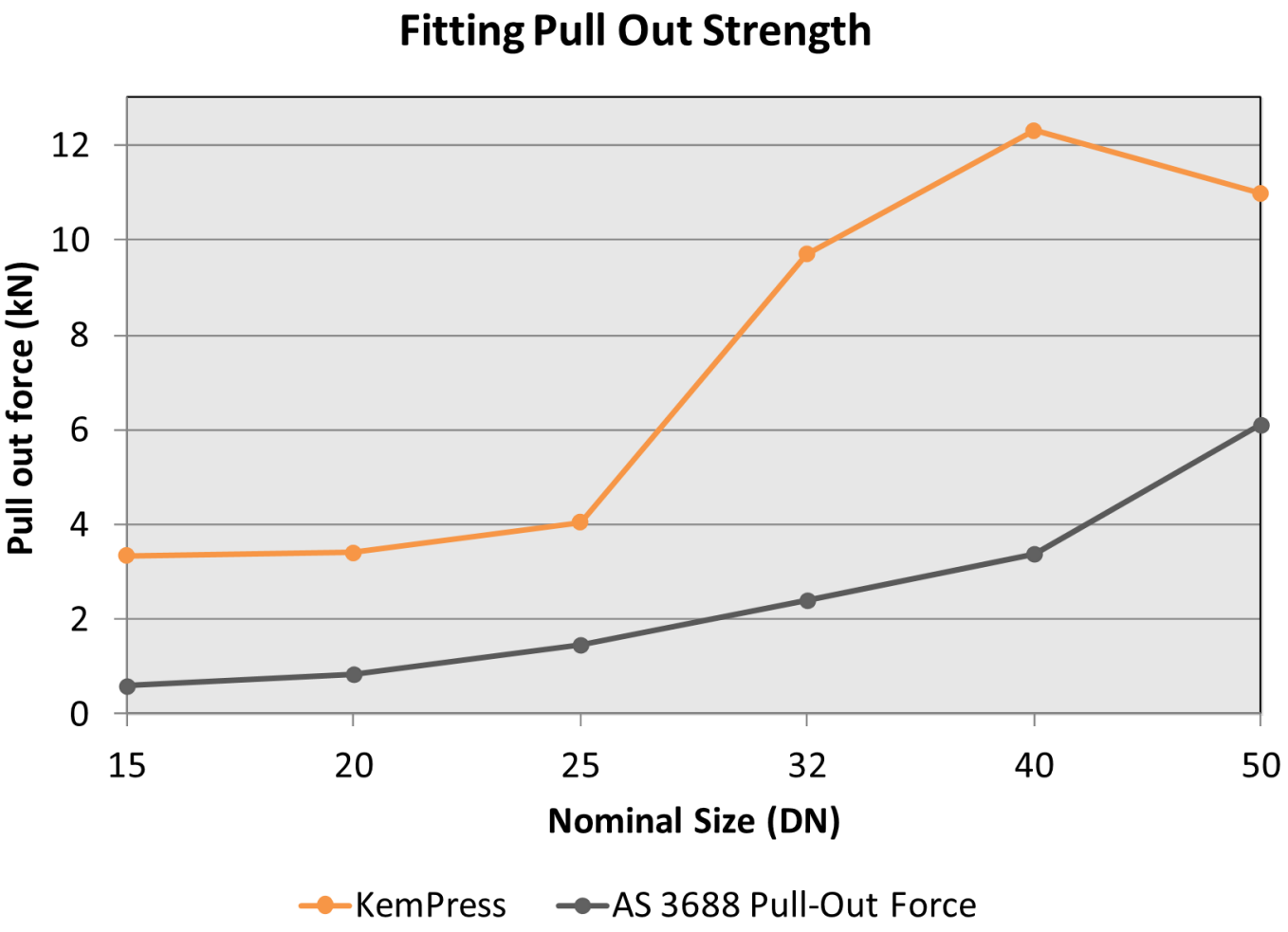
Press Fittings

Pull out forces up to over 4 times the requirements of AS 3688



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Press Fittings

Burst pressures >5 times requirements of AS3688 leak tightness tests

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Kembla Insulation *by K-Flex*

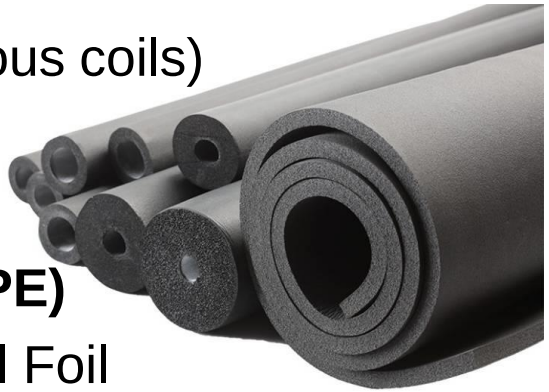
A partnership with global insulation leader L'Isolante, K-Flex providing a comprehensive range of fire-retardant multi-purpose flexible elastomeric thermal insulation and accessories

Compliant to NCC requirements:

- AS/NZS4859.1 - Materials for thermal insulation
- AS/NZS1530.3 - Fire test on building materials

A. Fire Retardant Closed Cell NBR:

- Tubular insulation (2m & continuous coils)
- Self-seal tubular insulation
- Sheet insulation



B. Fire Retardant Closed Cell (XLPE)

Cross-linked Polyolefin Foam with Al Foil

C. Adhesives, Tapes & Pipe Supports

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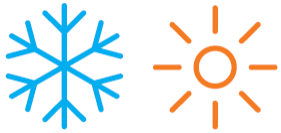
Kembla Insulation *by K-Flex*



Low Thermal Conductivity

- Thermal conductivity of 0.032W/m.K
- Improved system performance/energy efficiency

High Water Vapour Diffusion Resistance

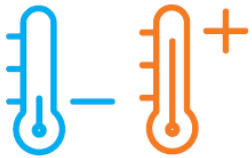
- Closed cell insulation with high μ factor to minimise water vapour penetration

Low Flame Spread

- Does not generate flaming droplets
- Low fire propagation index
- Self extinguishes in case of a fire/Complies with BCA

Non-Toxic

- Does not emit Volatile Organic Compounds (VOC's)
- Zero Ozone Depletion Potential (ODP)



Temperature Range

- Standard (ST) insulation: 20°C to 116°C
- High Temperature (HT) insulation: 40°C to 150°C
- XLPE insulation: -40°C to 115°C

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Kembla Pipe Supports

MM Kembla's range of high quality pipe supports to suit copper, steel and stainless steel tube

- **Rubber lined zinc plate pipe clamps** with M8/M10 combi boss
- **Unlined and rubber lined 316Ti SS pipe clamps** with M10 boss
- **Zinc plated base plates** with M8/M10 thread
- **316Ti SS base plates** with M10 thread
- **Galvanised hammerhead bolts** with M10 threaded stud for use with pipe clamps & channel struts

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MM Kembla Bronco Pipe Saddles

An innovative, simpler and better way to install piping systems which provides optimal support for insulated tube & pipe

- Fast, clean and easy installation - no assembly or tools required
- Fits perfectly on any anchor channel depth
- Enhanced lip design prevents insulation crushing and tearing from pipe movement
- External stability tabs with grooved slot feature for optional self-tapping screw
- Moulded from high strength polypropylene copolymer
- Available from 2 ¼ to 8 ¼ OD

Easy snap on design for channels

Perfect for insulated tube

KEMBLA
KemDrain™

KemDrain Stainless Drainage Solutions

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How to arrange a Kembla System project warranty

Complete warranty assessment form and submit to MM Kembla

MM Kembla reviews details of warranty assessment form

Project specific Kembla system warranty provided

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To find out more:

1800 804 631

info@kembla.com.au

www.kembla.com.au

INTEGRATED PIPING SYSTEMS