

New multilayer solutions

BENEFITS OF MULTISKIN PRODUCTS

FOUR TIMES GREATER PERFORMANCE

- With crimp and push fit for "instant" technologies, a fitting is installed in 7 seconds, without the risks associated with welding.
- Crimp fittings are **compatible with TH, H and U profiles** and with most tool brands.
- Improvement of the hydraulics, with a **reduction of pressure losses of 14%** on average compared to former products.
- Multilayer pipe offers great working comfort: it is easy to transport and simple to install thanks to manual bending and rapid cuts. It is available in rolls of 100 m and on average requires half the number of fittings compared to metal pipe systems.

FOUR TIMES BETTER SAFETY

- The removable Visu-Control® for crimp fittings allows visual verification.
- The no crimp, no seal *technology* allows water to flow through during pressure tests to indicate forgotten crimping.
- The protective caps keep impurities out of each fitting.
- Light and easy to transport pipe available in 100 metre individual cartons limits difficult working conditions and risks related to heavy loads.



OUR 3 AREAS OF EXPERTISE



CONTROL

COMAP's control solutions make it possible to provide the right flow in the right place in a heating, air-conditioning or hot water systems.



CONNECTION

COMAP offers a wide range of complete multilayer connection systems, in PER and in copper.



WATER QUALITY

COMAP solutions are based on soft technologies and are more environment friendly, resulting in healthy and high quality water in residential buildings.

SELECTION TABLE

MULTISKIN fittings

| FIGURE* | 14 | 16 | 18 | 20 | 26 | 32 | 40 | 50 | 63 | 75 |
|------------------------------|----|----|----|----|----|----|----|----|----|----|
| Wall mount | • | • | • | • | • | • | | | | |
| Cap | • | • | | • | • | • | • | | | |
| 45° elbow | | | | | • | • | | | | |
| 90° elbow | • | • | • | • | • | • | • | • | • | • |
| Angle 90° socket / female | • | • | • | • | • | • | • | • | • | • |
| Male elbow fitting | • | • | • | • | • | • | • | • | • | • |
| Coupling | • | • | • | • | • | • | • | • | • | • |
| Threaded fitting, female | • | • | • | • | • | • | • | • | • | • |
| Threaded fitting, male | • | • | • | • | • | • | • | • | • | • |
| Ball valve | | • | • | • | • | | | | | |
| Tee | • | • | • | • | • | • | • | • | • | • |
| Threaded tee fitting, female | • | • | • | • | • | • | • | • | • | • |
| Threaded tee fitting, male | | • | | • | • | • | • | | | |

*other types are available • : metal crimping • : to synthetic crimping • : press fittings • : metal crimping for gas

MULTISKIN pipes

| OUTSIDE DIAMETER | 14 | 16 | 18 | 20 | 26 | 32 | 40 | 50 | 63 | 75 |
|------------------------------|-------|-----------------|-------|--------------|-------------|---------|----|----|----|----|
| Bare pipe lengths | 5m | 3m / 5m | 5m | 3m / 5m | 3m / 5m | 3m / 5m | 5m | 5m | 5m | 5m |
| Bare pipe in coils | 100 m | 50 / 100 / 200m | 100 m | 50 m / 100 m | 50 m | 50 m | - | - | - | - |
| In conduit (blue or red) | 100 m | 50 m / 100 m | 100 m | 50 m | 50 m | 50 m | - | - | - | - |
| In black or yellow conduit | - | 50 m / 100 m | - | 50 m | 50 m | 50 m | - | - | - | - |
| Insulated 6 mm (blue or red) | 100 m | 50 m / 100 m | 50 m | 50 m | 25 m / 50 m | 25 m | - | - | - | - |
| Insulated 9 mm (blue or red) | - | 50 m | - | 50 m | 25 m / 50 m | 25 m | - | - | - | - |
| Insulated 13 mm (blue) | - | - | - | 50 m | 50 m | - | - | - | - | - |
| Duo | - | 50 m | - | - | - | - | - | - | - | - |

■ MultiSkin 4 ■ MultiSkin 2 ■ MultiSkin 4 and MultiSkin 2 ■ MultiSkin Gas

To learn more and discover the full range, contact your COMAP advisor.

COMAP

Your partner for thermal and sanitary solutions for the comfort and environmental performance of buildings.

French experts for nearly 100 years in the fields of plumbing and HVAC, our solutions integrate harmoniously into living areas. With nearly 600 employees, we design and manufacture control-regulation, connection and water quality technology. They enable intelligent management of water and energy and contribute to the comfort and well-being of occupants worldwide.

COMAP is part of the Aalberts Industries NV Group which has achieved a turnover of 2, 759 billion euros in 2018.

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CONTROL

CONNECTION

WATER QUALITY

New solutions
multilayer
MultiSkin

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MultiSkin

New multilayer solutions

| APPLICATIONS* | |
|---------------|--|
| | Drinking water |
| | Sanitary hot water |
| | Heating systems |
| | Under-floor heating and cooling |
| | Chilled water |
| | Solar heating |
| | Urban heating |
| | Water vapour |
| | Rainwater |
| | Water for industrial use |
| | Air gaps |
| | Compressed air (oil < 25 mg/m ³) |
| | Gas |

* Many other applications are available on request

BENEFITS OF A COMPLETE AND PROVEN SYSTEM

EXCELLENT PERFORMANCE

- Wide range of applications in temperatures (-10 °C to + 95 °C).
- System certified by EN ISO 21003, DVGW, KIWA, NF and CSTBat.
- Recyclable materials.

EASE IN WORKING

- Lightweight and easy to transport: multilayer pipe is three times lighter than copper.
- Practical packaging: One coil of 100 metres of pipe in an individual carton.
- Easy installation: manual bending and shape retention memory.



SAVINGS IN TIME AND MONEY

- **Fewer connections:** on average, half as many fittings than in metal-based systems.
- **Lower risk of theft:** a multilayer pipe is three times less expensive than copper.
- **Rapidity:** a crimp fitting takes less than seven seconds to connect.



FULL RANGE OF PRODUCTS

- Metal and synthetic crimp fittings.
- Synthetic press fittings.
- Multilayer pipe in MultiSkin 4 (Alu 0.4 mm, Ø16 mm) and MultiSkin 2 (Alu 0.2 mm, Ø16 mm) versions.

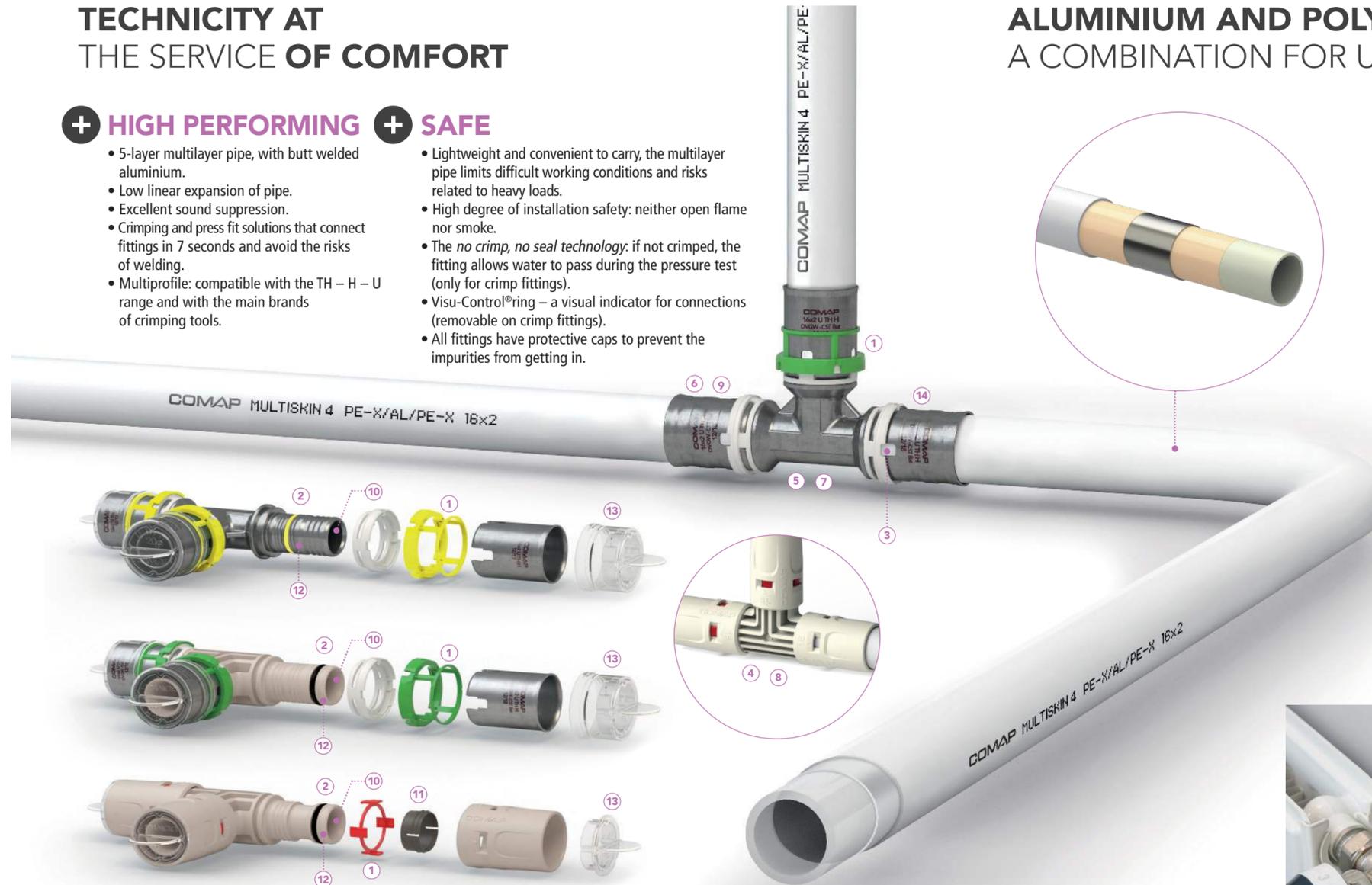
TECHNICITY AT THE SERVICE OF COMFORT

+ HIGH PERFORMING

- 5-layer multilayer pipe, with butt welded aluminium.
- Low linear expansion of pipe.
- Excellent sound suppression.
- Crimping and press fit solutions that connect fittings in 7 seconds and avoid the risks of welding.
- Multiprofile: compatible with the TH - H - U range and with the main brands of crimping tools.

+ SAFE

- Lightweight and convenient to carry, the multilayer pipe limits difficult working conditions and risks related to heavy loads.
- High degree of installation safety: neither open flame nor smoke.
- The *no crimp, no seal technology*: if not crimped, the fitting allows water to pass during the pressure test (only for crimp fittings).
- Visu-Control® ring – a visual indicator for connections (removable on crimp fittings).
- All fittings have protective caps to prevent the impurities from getting in.



1. Visu-Control® ring (removable upon crimping)
2. EPDM O-ring (or of HNBR for Gas fitting) with the *no crimp, no seal function*
3. Pipe insertion viewing window

4. Body in PPSU
5. Body in CW617N brass
7. Tin plated fitting

8. Design with flow line
9. Multiprofile TH - H - U
10. Improved hydraulics
11. Bonding ring

12. Support against the body to protect the O-ring
13. Protection cap
14. Laser marking with lot numbers

ALUMINIUM AND POLYETHYLENE: A COMBINATION FOR ULTRA PERFORMANCE

ALUMINIUM CORE IN PIPE

- Low thermal expansion: similar to metal tubes.
- Accommodates high pressure levels: up to 10 bar.
- Oxygen barrier.
- Shape retention memory.

INTERNAL AND EXTERNAL LAYERS IN POLYETHYLENE

- **Exceptional resistance to high temperatures** PEX (cross-linked polyethylene) or PERT (high temperature polyethylene) are especially resistant over time to temperature differences within a system, such as can undergo a heating circuit.
- **Anti-corrosion** The inner and outer layers of polyethylene fully protect the aluminium layer.
- **Acoustics** Polyethylene muffles sound remarkably well, such as circulating fluids and knocks in pipes, thus avoiding annoying noise.

the plus by COMAP

The M22 rotating nut coupling, an exclusive COMAP solution integrates heating fittings into the multilayer network.

ADVANTAGES:

- Rapid installation.
- Savings.
- Attractiveness.

10-YEAR WARRANTY

For its MultiSkin pipe and fitting systems, COMAP offers its 10-year manufacturer's warranty for any claim involving its liability. For more information regarding the applications of the warranty, consult the terms and conditions of the COMAP warranty.

COMAP