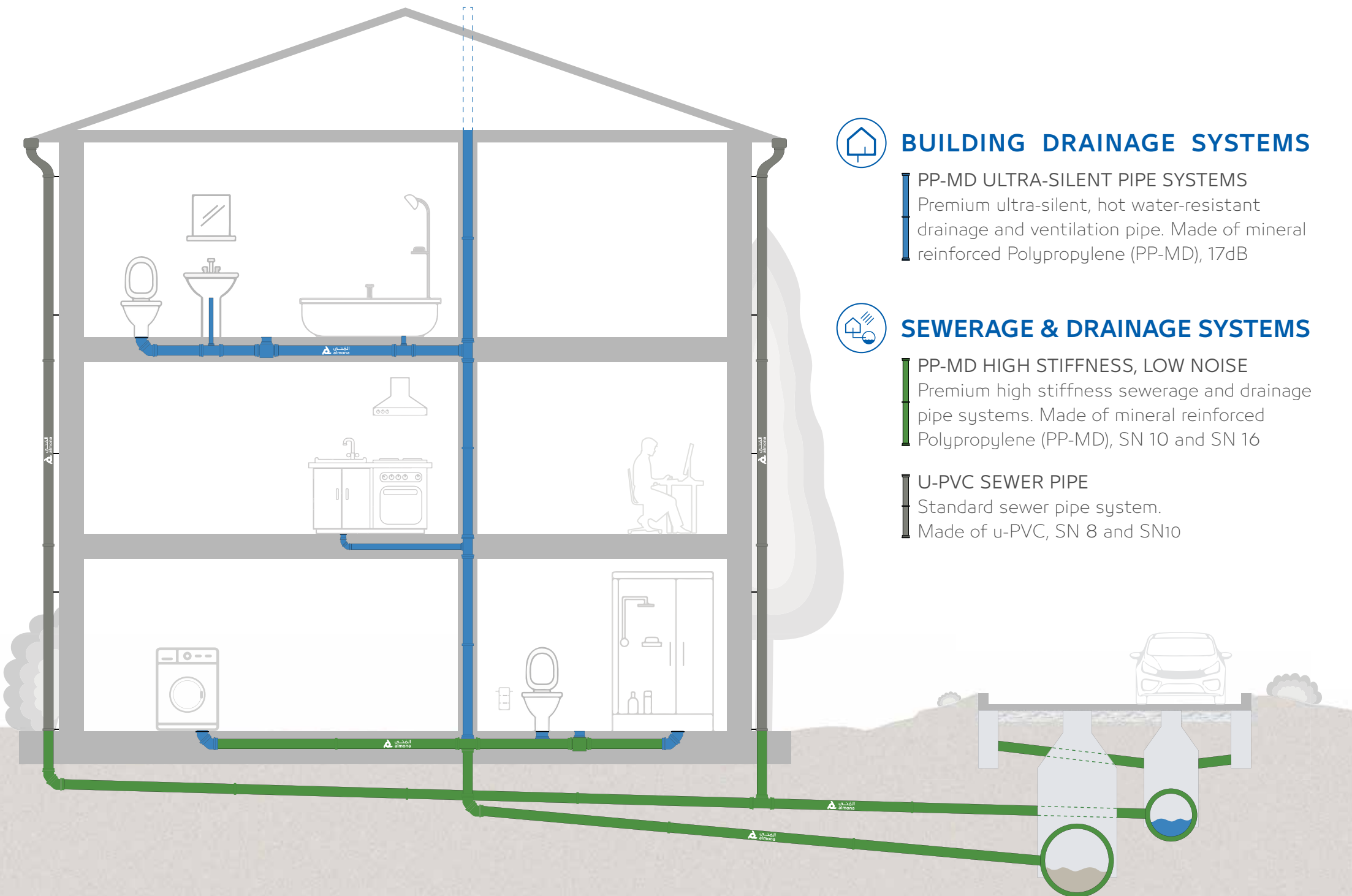




almona BUILDINGS, SEWEGE & DRAINAGE





BUILDING DRAINAGE SYSTEMS

PP-MD ULTRA-SILENT PIPE SYSTEMS

Premium ultra-silent, hot water-resistant drainage and ventilation pipe. Made of mineral reinforced Polypropylene (PP-MD), 17dB



SEWERAGE & DRAINAGE SYSTEMS

PP-MD HIGH STIFFNESS, LOW NOISE

Premium high stiffness sewerage and drainage pipe systems. Made of mineral reinforced Polypropylene (PP-MD), SN 10 and SN 16

U-PVC SEWER PIPE

Standard sewer pipe system.
Made of u-PVC, SN 8 and SN10



almona PP-MD ULTRA-SILENT PIPE SYSTEMS



Material	PP-MD mineral reinforced pipes and fittings
Size range and wall thicknesses	DN 32 (3.4) mm to DN 200 (6.2) mm
Area of application	Drainage pipes in buildings and above ground installation • Inside buildings (B) : DN40 to DN50 • Inside and under the buildings (BD) : $\geq$DN 75
Ring stiffness	$> xxx \text{ kN/m}^2$
Sound insulation	0.5 l/s 14 dB; 1.0 l/s 16 dB; 2.0 l/s 16 dB; 4.0 l/s 18 dB
Pipe technology	3-layers technology • Outer layer: High stiffness & impact resistant PP. • Middle layer: High stiffness mineral reinforced soundproof. • Inner layer: Chemical & abrasion resistant PP.
Connection	Rubber ring joint socket with factory-installed 3 lip innovative sealing ring.
Color	• External and inner layers: RAL 5012 • Middle layer: Grey
Fire behaviour	• B2 (normally inflammable) DIN 4102-1 • E (normally inflammable) EN 13501-1
Standards and approvals	• EN14758, EN1451, EN1852 (refer to the chapter about approvals, standards and quality).
Special characteristics	Waste water temperature up to 90°C (continuous load) and 95°C for brief period.



almona PP-MD

HIGH STIFFNESS, LOW NOISE SN 10 & SN 16 PIPE SYSTEMS



Material	PP-MD mineral reinforced, ultra-silent pipes and fittings
Size range and wall thicknesses	DN 32 (3.4) mm to DN 200 (7.7) mm
Area of application	Drainage pipes in buildings and above ground installation • Inside buildings (B) : DN40 to DN50 • Inside and under the buildings (BD) : $\geq$DN 75
Ring stiffness	$> 10 \text{ kN/m}^2$ and 16 kN/m
Sound insulation	0.5 l/s xxx dB; 1.0 l/s xxx dB; 2.0 l/s xxx dB; 4.0 l/s xxx dB
Pipe technology	3-layers technology • Outer layer: High stiffness & impact resistant PP. • Middle layer: High stiffness mineral reinforced soundproof. • Inner layer: Chemical & abrasion resistant PP.
Connection	Rubber ring joint socket with factory-installed 3 lip innovative sealing ring.
Color	RAL 6017
Fire behaviour	• B2 (normally inflammable) DIN 4102-1 • E (normally inflammable) EN 13501-1
Standards and approvals	• EN14758, EN1451, EN1852.
Special characteristics	Waste water temperature up to 90°C (continuous load) and 95°C for short period.



almona U-PVC SEWER PIPE SYSTEMS



Material	uPVC
Size range	DN 25 mm to DN 200 mm
Area of application	Underground, inside and outside buildings.
Ring stiffness	> xxx kN/m
Pipe technology	Single layer technology
Connection	• Rubber ring joint socket with factory-installed 3 lip innovative sealing ring • Solvent (cement) jointing
Color	• uPVC white pipes (approximately RAL 1013) • uPVC dusty grey pipes (approximately RAL 7037) • uPVC orange brown pipes (approximately RAL 8023)
Fire behaviour	Almona uPVC pipes and fittings will not support combustion. In the event of fire, flames are unable to travel along the pipe.
Standards and approvals	DIN EN1329, SASO ISO3633; DIN EN1401; SASO ISO1452; DIN8061/8062, ISO161-1 and SASO14/15; ASTM D2241; ASTM D1785: SCHEDULE 40 & 80



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PIPE SYSTEMS PROPERTIES



Material Properties	PP-MD High Stiffness	PP-MD Ultra Low Noise	U-PVC
Ring Stiffness	++	++	+
Flexibility	-	+	+
Noise attanuation	-	+	++
Impact resistance +23oC	+	++	++
Impact resistance -20oC	-	++	++
Operating temperature	+	++	++
Chemical resistance	+	++	++
Thermal Conductivity	++	++	++
Thermal expansion	++	+	+
Fire Rating	++	+	+
Weldability	-	++	++
Installation	++	++	++
Recyclability	-	++	++
++ = excellent + = good - = poor			



Saudi made

صنع بالسعودية



High quality

جودة عالية



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