The **Mech 416** system from Hargreaves Drainage is a mechanically jointed socketless cast iron system for above ground soil drainage. It is finished in a matt black two part epoxy coating.

These products are manufactured to BS416 part 2 standard to meet the needs of specifiers and contractors.

The Mech 416 system is especially suitable for the refurbishment of apartment blocks and multi-storey car parks.

Mechanically jointed systems provide all the benefits of a conventional BS416 socket and spigot cast iron soil system but also offer significant labour savings due to the efficient jointing techniques employed.

The installation is mechanically jointed using simple and reliable couplings. It can be fitted both horizontally and vertically.

Benefits

- Significant labour saving compared to caulked jointed systems
- Strength / durability- highly resistant to distortion
- Quiet in operation- sound deadening properties reduce acoustic insulation costs
- Lighter and easier to handle than traditional LCC cast iron soil systems
- Robust ductile iron couplings do not need specialist tools to install

Typical Applications

- Refurbishment projects
- Public buildings, hospitals and schools
- Apartment and hotel developments
- Offices and commercial units
- Retail buildings and car parks

Materials

Pipes and fittings are manufactured in grey cast iron which exceeds the requirements of BS EN 1561 Grade EN-JL 1020, ISO 185 Grade 15.

Mech 416 ductile cast iron couplings are manufactured in accordance with BS EN 1563, ISO 1083 with minimum tensile strength of 420N/mm2

All couplings are supplied with EPDM rubber sealing rings which are suitable for most applications but where aggressive waste liquids are to be discharged please check with our technical department as to their suitability.

Sustainability

- Correctly installed and maintained Mech 416 systems can last in excess of 100 years
- Cost effective over whole of life
- Cast iron is 100% recyclable at the end of its life

Standards

Manufactured to:

- BS 416 part 2 Soil, waste and ventilating pipes and fittings.
- BS 6087- Flexible joints for BS 416 part 2.

Codes of Practice

BS EN 12056

Codes of practice for gravity drainage systems, internal buildings- sanitary pipework and drainage of roofs.

Coating Specification

Pipes

External: Two part epoxy coating (black) with an average dry wall thickness of 70 microns.

Internal: Two part epoxy coating (yellow ochre) with an average dry wall thickness of 130 microns.

Fittings

External: Two part epoxy coating (black) with an average dry wall thickness of 70 microns.

Internal: Two part epoxy coating (black) with an average dry wall thickness of 70 microns.

Additional top coating is required for exterior use



Product Options

Pipes	Size (nominal)	Bends	Size (nominal)
3m Double spigot soil pipes	50, 70, 100, 150mm	87.5 degree short radius bends	50, 70, 100, 150mm
		67.5 degree short radius bends	100mm
Couplings	Size (nominal)	45 degree short radius bends	50, 70, 100, 150mm
Ductile iron couplings	50, 70, 100, 150mm	30 degree short radius bends	100mm
Ductile iron couplings with continuity	50, 70, 100, 150mm	15 degree short radius bends	100mm
Conversion coupling – Mech 416 to traditional LCC soil		87.5 degree long radius bends	100, 150mm
70/65mm, 100/100mm		22.5 degree long radius bends	100mm
Conversion coupling – Mech 416 to alternatively sized		87.5 degree short radius bends with door 70, 100mm	
equivalent systems	70/75mm	87.5 degree long radius bend with door	100, 150mm
		87.5 degree long tail bend	100mm
Fittings	Size (nominal)		
Access pipes with round door	50, 70, 100, 150mm	Branches	Size (nominal)
Access pipes with rectangular door	100, 150mm	87.5 degree single equal branches	50x50, 70x70mm
Offsets 75mm projection	100mm	87.5 degree single unequal branches	
Offsets 130mm projection	50, 70, 100mm	70x50, 100x50, 100x70mm	
Boss pipes single boss	70, 100, 150mm	67.5 degree single equal branches	100x100mm
Boss pipe double opposed	100mm	45 degree single equal branches	
Boss pipe double at 90 degrees	100mm	50x50, 70x70, 100x100, 150x150mm	
Strap on boss	100mm	45 degree single unequal branches	
Pipe tapers 70x50, 100x50	, 100x70, 150x100mm	70x50, 100x50, 100x70, 150x100mm	
P traps with bottom door	50, 70, 100, 150mm	87.5 degree single radius curve branches	
Blank ends	50, 70, 100, 150mm	100x100, 150x100, 150x150mm	
Blank ends drilled and tapped	100, 150mm	87.5 degree single radius curve branches with door	
Bellmouth gully inlet	100mm	100x100, 150x100, 150x150mm	
Solid cover	200mm	45 degree double branches	100x100, 150x100mm
Plain grating	200mm	87.5 degree double radius curve branches	
Bolt on puddle flange	100mm	100x100, 150x100mm	
		87.5 degree single radius curve branches with boss on back	
Brackets	Size (nominal)	100x100mm	
Coated adjustable brackets	50, 70, 100, 150mm	87.5 degree single radius curve branches with boss on left	
Zinc plated rubber lined bismat bracket	s 50, 70, 100, 150mm	100x100mm	
Zinc plated heavy duty bossed brackets	50, 70, 100, 150mm	87.5 degree single radius curve branches with boss on right	
Zinc plated rubber lined heavy duty bos	ssed brackets		100x100mm
	50, 70, 100, 150mm		
Galvanised pipe clamps	50, 70, 100, 150mm	Tools	
Zinc plated split band clips	50, 70, 100, 150mm	Ratchet spanner	
		Socket for access door bolts	

Allen socket adapter for couplings