



■ Petaling Jaya Hilton Hotel - Air- conditioning retrofit - chilled water service

## System Benefits

### ■ High efficiency insulation

- Half the thickness of FG sections
- Allows more space
- More energy efficient
- Pipe size reduction possible

### ■ Excellent Vapour Barrier

- Long life even in tropical areas
- Needs no casing penetrations at supports or hangers
- No drop off in efficiency
- No corrosion problems

### ■ Reduced site time and cost

- Install three systems in one operation
- Insulation, vapour barrier, and cladding
- Simple assembly using standard equipment
- Underground system can lie directly in unlined trench

### ■ Quality

- Factory insulated under controlled conditions
- Minimum reliance on site skills
- Strict Quality Control and Quality Assurance system in place
- Qualified procedures throughout manufacture

### ■ Fire resistance

- 2 hour fire rating to enhance safety

### ■ Low cost life cycle

- No maintenance
- No sweating on to ceiling tiles, etc
- Long term integrity
- No wet insulation
- No drip trays

### ■ Subcontractor liaison as required

- Selection of sub-contractors
- Training through data modules
- Training on-site
- Site supervision
- Assistance with commissioning
- Complete on-time and within budget
- Practical solutions assured



■ Cadbury Australia - Air-conditioning installation

## Technical Data

### Applications

- Chilled water distribution
- Aboveground
- Underground
- In service ducts and shafts
- Exposed on roofs

### Typical sites

- Large buildings
- Hotels
- Resort complexes
- Hospitals
- Public Buildings
- Military establishments
- Universities
- Exhibition halls
- Shopping complexes

### Insulation specifications

Thermal conductivity:	0.024 W/m <sup>2</sup> K
Compressive Strength	320 kPa
Sheer strength	205 kPa
Density	65 kg/m
Thickness optimised at design stage:	
Minimum recommended	25mm
Maximum recommended	79mm

### Underground system casing material

- High density polyethylene, one piece extruded

### Above Ground system casing material

- Spiral wound galvanised steel
- Spiral wound stainless steel
- Spiral wound aluminium
- Spiral wound epoxy coated

### Process pipe

Normally single or double randoms to Engineer's specification.

Superior system performance may allow reduced diameter and corrosion provision.



■ Chilled water supported from the casing in covered way