

# NEWTHERM® P

by Intumex

CALCIUM SILICATE PIPE PROTECTION  
WET RISER • DRY RISER • DIESEL

## PRODUCT DESCRIPTION

NEWTHERM® P by Intumex is a light weight non-combustible board specially designed to provide fire protection to wet risers, dry risers and diesel pipes of nominal sizes in the range 25mm to 250mm. Up to 240 minutes fire resistance can be achieved depending on the thickness of NEWTHERM® P used, and the material type and dimensions of the pipe being protected.

It is easy to work using normal woodworking tools. NEWTHERM® P is fast and economical to install.

NEWTHERM® P by Intumex is a low density calcium silicate board containing vermiculite and reinforced with selected fibres and fillers. It is formulated without any inorganic fibres.

NEWTHERM® P is off-white in colour with a sanded finish on both faces. It can be left undecorated or can be easily painted.

NEWTHERM® P is rigid and robust but edges and corners should be protected where impact damage may occur.

### EFFECT OF MOISTURE

Excellent dimensional stability. Resistant to high humidities. It will absorb water causing some loss of strength but this is fully recovered on drying.

Moisture has no permanent effect on the performance of the board as it will not degrade the board or dissolve out any ingredients. It does not cause efflorescence.

NEWTHERM® P can be fixed at any time in the building programme even before external walls have been completed and the building made weather tight.

### THERMAL

Coefficient of linear expansion  $4 \times 10^{-6}$  per °C.  
Thermal conductivity 0.13 W/mK.

### BIOLOGICAL

Resistant to attack by insects or vermin.  
Rot resistant.

### CHEMICAL

Unaffected by brine and chlorine, resistant to low concentrations of most acids and alkalis.  
Surface pH value 7-10.

### COMPATIBILITY

Compatible with all common building materials; non-caustic and will not promote corrosion; will not affect bituminous compounds; when in contact with unanodised aluminium the latter should be protected.

### STANDARD

Tested to British Standard 476: Part 20:1987 and non-combustible to BS 476: PART 4: 1970. Also tested to Singapore standard requirements FSB/PSB/001 DATED 2000 November 8th.



Quality  
Manufacture

NEWTHERM® P is manufactured in the UK. The manufacturing and production systems operate under a rigorous quality management system, independently certified as complying with BS EN ISO 9002.

**Intumex®**  
ASIA PACIFIC



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## PRODUCT FORM

Thicknesses	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm or 60mm
Widths	610mm or 1220mm
Lengths	1220mm
Thickness tolerance	-0.8mm, +0.0mm
Length tolerance	0.0mm +4.8mm
Width tolerance	-0.0mm, +4.8mm

NEWTHERM<sup>®</sup> P by Intumex is rigid but edges and corners should be protected where impact damage may occur.

The large range of thickness available allows selection of the most economical board to meet given periods of fire resistance.

All board sizes are based on metric equivalents of imperial dimensions rounded to the nearest 5mm.

Non-standard sizes available to order. Standard sizes and board tolerances are shown above.

## PRODUCT PERFORMANCE

### Mechanical

Flexural strength	2.0MPa
Nominal Dry Density	500kg/m <sup>3</sup>

### Fire

Non-combustible to BS 476: Part 4 1970	Yes
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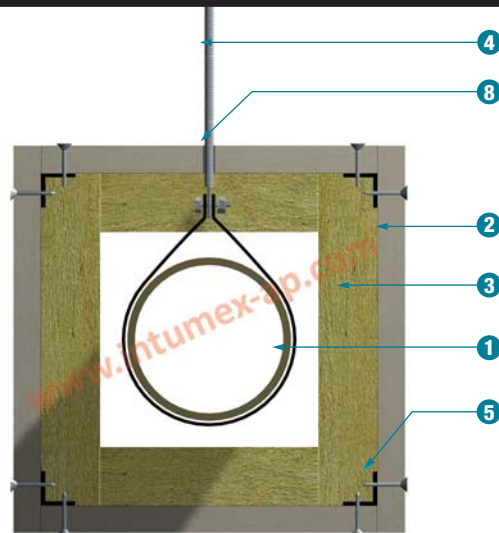
Material of limited combustibility as defined in local Building Regulations	Yes
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Classification of Surface as defined in local Building Regulations	Class 0
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Spread of Flame to BS 476 Part 7: 1987	Class 1
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Moisture	0.03%
Moisture movement (35-85%RH)	

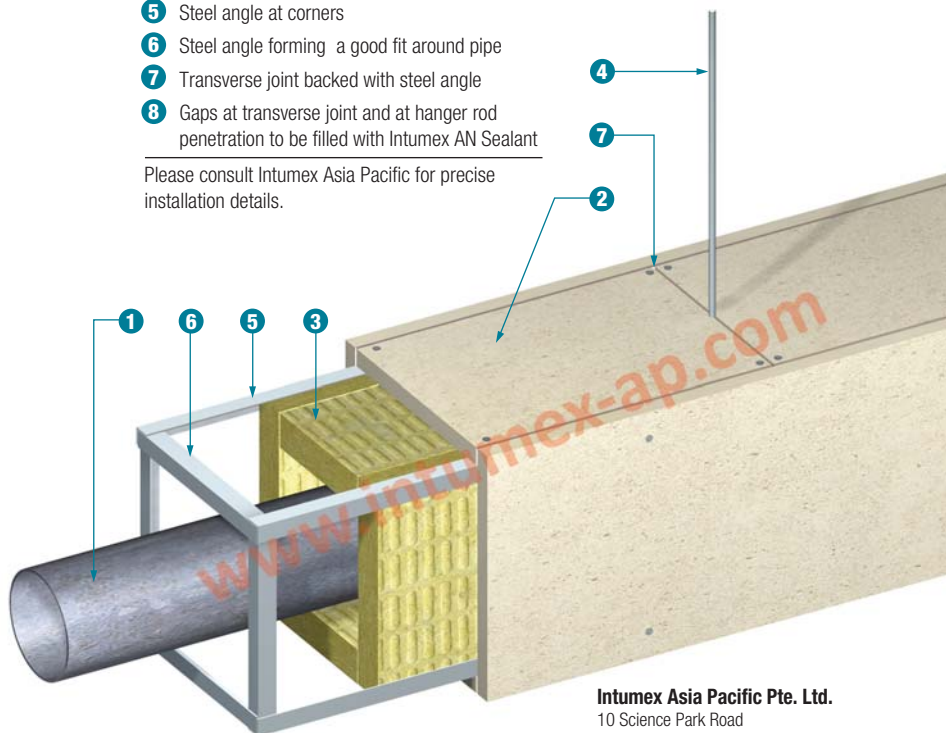
Weight	20mm	10.3kg/m <sup>2</sup>
Nominal board weights at ambient conditions	25mm	12.9kg/m <sup>2</sup>
	30mm	15.5kg/m <sup>2</sup>
	35mm	18.1kg/m <sup>2</sup>
	40mm	20.6kg/m <sup>2</sup>
	45mm	23.2kg/m <sup>2</sup>
	50mm	25.8kg/m <sup>2</sup>
	55mm	28.4kg/m <sup>2</sup>
	60mm	30.9kg/m <sup>2</sup>



### CROSS SECTION VIEW

- 1 Steel dry or wet riser pipe
- 2 NEWTHERM<sup>®</sup> P board protection, thickness as per required fire resistance
- 3 Mineral wool insulation, thickness and density as per required fire resistance
- 4 Hanger rods (Left unprotected if stress does not exceed 10N/mm<sup>2</sup> for 2 hours fire rating and 6N/mm<sup>2</sup> for 4 hours fire rating)
- 5 Steel angle at corners
- 6 Steel angle forming a good fit around pipe
- 7 Transverse joint backed with steel angle
- 8 Gaps at transverse joint and at hanger rod penetration to be filled with Intumex AN Sealant

Please consult Intumex Asia Pacific for precise installation details.



### ISOMETRIC VIEW

**Intumex Asia Pacific Pte. Ltd.**  
10 Science Park Road  
#03-14 The Alpha  
Science Park II  
Singapore 117684  
Tel: +65 6292 7888  
Fax: +65 6294 2576  
Email: info@intumex-ap.com  
www.intumex-ap.com

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