

We share our knowledge to your advantage

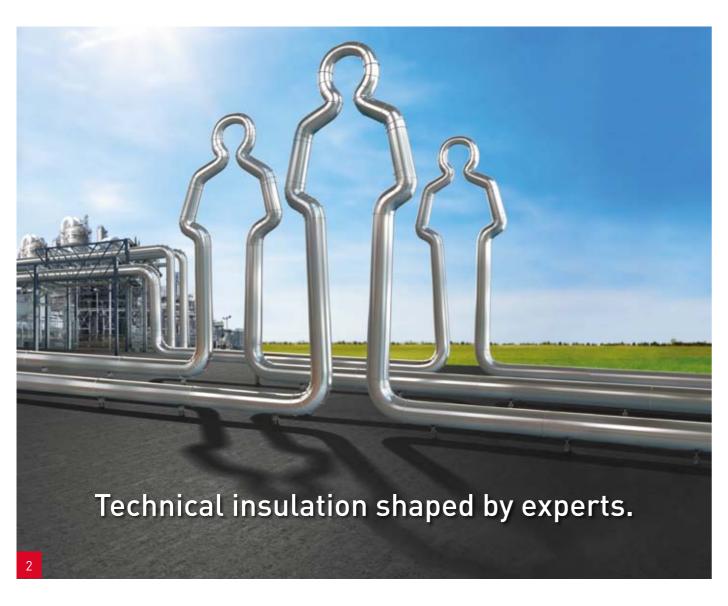
ROCKWOOL Technical Insulation – a subsidiary of the ROCKWOOL Group – develops innovative technical insulation solutions for the process industry and the shipbuilding & offshore market. Through our comprehensive product lines ProRox and SeaRox we offer a full spread of sustainable products and systems guaranteeing the highest possible thermal and firesafe insulation of all technical installations. Our over 75 years of experience are reflected in a complete set of high-grade products and expert advice. Today, our dedicated and technically experienced people remain fully committed to providing the very best service and tools in the market and a total range of cutting-edge insulation solutions.

Excellent insulation products, outstanding people

All ROCKWOOL Technical Insulation solutions meet the most stringent quality and safety standards. All ProRox and SeaRox products and constructions have been tested according to the latest regulations and approved by all major classification societies. As an innovation-driven company we demand excellence. In every segment we keep searching for new systems, methods and solutions. We endeavour to develop ever more efficient products and to constantly optimise production processes and processing technologies. And we deliver! Our people know your market down to the smallest detail and provide continual knowledge and service for the benefit of the client. Besides excellent insulation products, they are the real key to our success. Thanks to their expertise and extensive experience, we can offer you exceptional stone wool solutions, expert tools and an impeccable service.

The best solutions, built on solid expertise

Our people's in-depth expertise is the best guarantee that end users in the petrochemicals, power generation, shipbuilding, offshore and the process industries are given the best and most advanced insulation solution. Both in the process industry and in the marine & offshore industry, our stone wool products offer the highest possible protection against heat and



energy loss, fire, noise and other unwanted influences. Our experts will be delighted to share their knowledge and advise you in drawing up technical and project specifications.

Up-to-date information and expert tools

As a highly skilled professional you are always looking for the best possible end result. The quickest way to achieve that is with ROCKWOOL Technical Insulation premium products, and the detailed information and expert tools that come with them, which always incorporate the latest technical findings. That's why you should always check that the information and tools you have are up-to-date. If you have any questions about specific application issues, working methods or product properties, please visit our website at www.rockwool-rti.com or contact one of our local sales organisations (see the contact details on the back of this brochure).

The ROCKWOOL Group

ROCKWOOL Technical Insulation is a subsidiary of the ROCKWOOL Group, the world's largest and most experienced producer of stone wool products. ROCKWOOL International A/S is based in Hedehusene, Denmark. In 2014 the Group generated net sales of EUR 2,180.4 million. The Group's operations have a large presence in Europe and also facilities in Russia, North America, India and East Asia with more than 11,000 employees in more than 35 countries.

ROCKWOOL products has a melting point above 1000°C

ROCKWOOL products withstand temperatures up to 1000°C, making them exceptionally resistant to fire. This resistance can slow a fire's progress and buy precious time for rescue operations while helping to protect the building's structure from unnecessary damage. Yet while heat and flames are bad enough in a fire, smoke is the serious danger. It can suffocate occupants, and it can incapacitate people who might otherwise have been able to escape. ROCKWOOL insulation keeps toxic smoke from insulation to a minimum for even greater safety for the occupants during fire accident.

Stone wool protects people and the environment

ROCKWOOL products offer effective protection and optimal performance for the entire life cycle of the installation.

According to independent research ROCKWOOL is one of the most durable products available with an unequalled combination in the field of environmental improvement, energy savings, CO₂ reduction, acoustic insulation and fire safety. A positive 'carbon footprint': During its entire life cycle, ROCKWOOL insulation will save more than 20,000 times the carbon emissions caused by its production. The fire retardant and fire insulating characteristics of our stone wool products deliver superior protection to people, property and the environment.

Founding Partner of EIIF

■ ROCKWOOL Technical Insulation was one of the founding partners of the European Industrial Insulation Foundation (EIIF), which has established itself as a resource for industries that need to reduce CO₂ emissions.



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Industrial insulation

Application selector

| | | | | Thermal | insulation |
|---------------|-----------------------------|----------------------|----------------------|---------|------------|
| | | | | Pipe | work |
| | | | | ø <356 | ø>356 |
| | NEW GRADE | OLD EQUIVALENT GRADE | DENSITY | | |
| Dina Castiana | ProRox PS 960 ^{SA} | RockTech SPI 120 | 120kg/m³ | | - |
| Pipe Sections | ProRox PS 970 ^{SA} | RockTech SPI 150 | 150kg/m³ | | •• |
| | ProRox WM 950 ^{sa} | | 80kg/m³ | • | |
| Wired Mats | ProRox WM 960 ^{SA} | RockTech WM650 | 100kg/m ³ | • | |
| | ProRox WM 970 ^{SA} | RockTech WM650HD | 128kg/m³ | •• | |
| | | | | | |
| | ProRox SL 930 ^{sa} | | 60kg/m³ | | |
| | ProRox SL 950 ^{SA} | | 80kg/m³ | | |
| | ProRox SL 960 ^{SA} | RockTech S650 | 100kg/m ³ | | |
| | ProRox SL 970 ^{SA} | RockTech S650.128 | 128kg/m³ | | |
| | ProRox SL 978 ^{SA} | RockTech S850 | 110kg/m³ | | |
| | ProRox SL 980 | | 145kg/m³ | | |
| | ProRox SL 540 ^{sa} | RockTech S650.160.HC | 160kg/m³ | | |
| | ProRox SL 560 | ROCKWOOL 251 | 175kg/m³ | | |
| | ProRox SL 580 | ROCKWOOL CRS | 150kg/m³ | | |
| | ProRox BL 938 ^{SA} | RockTech B350 | 60kg/m³ | | |
| Blankets | ProRox BL 958 ^{SA} | RockTech B450 | 80kg/m³ | | |
| | ProRox BL 960 ^{SA} | RockTech B650 | 100kg/m³ | | |
| Loose wool | ProRox LF 970 | | | | |
| | ProRox GR 903 | | | | |

| | | | Thermal insulation | | | |
|--------------|-------------------------|------|--------------------|------------|-------|----------|
| C | Columns, Tanks, Vessels | | Larg voids & | Cold boxes | Ovens | Furnaces |
| wall (ø <5m) | wall (ø >5m) | Roof | cavities | | | 1 4.114 |
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Remarks

Due to an almost limitless range of applications, we have not provided detail information for all the applications. Information is available in the following manuals/standards for industrial insulation:

- CINI manual 'Insulation for industries'
- AGI Q101 (Insulation work on power plant components)
- DIN 4140 (Insulation work on industrial installations and building equipment)

■ BS 5970 (Code of practice for the thermal insulation of pipework, ductwork, associated equipment and other industrial installations)

For specific applications, our ROCKWOOL Technical Insulation sales team will be pleased to advise you.

ProRox PS 960^{SA}

Old Equivalent Grade: RockTech SPI 120

Pipe Section



Dimensions

| Nominal pipe size (NPS) inches | Internal diameter pipe insulation (ASTM C585-10) mm |
|---|--|
| 1/2 | 22 |
| 3/4 | 27 |
| 1 | 34 |
| 1 1/4 | 43 |
| 1 1/2 | 49 |
| 2 | 61 |
| 2 1/2 | 74 |
| 3 | 90 |
| 3 1/2 | 102 |
| 4 | 115 |
| 4 ½ (Only available in Rayong factory) | 128 |
| 5 | 143 |
| 6 | 170 |
| 7 | 196 |
| 8 | 221 |
| 9 | 246 |
| 10 | 275 |
| 11 | 300 |
| 12 | 326 |
| 14 | 358 |
| 16 | 408.8 |
| 18 | 459.6 |
| 20 | 510.4 |
| 22 | 561.2 |
| 24 | 612 |
| 26 | 662.8 |
| 28 | 713.6 |
| 30 (Only available in Bukit Raja factory) | 764.4 |
| 32 (Only available in Bukit Raja factory) | 815.2 |

Applications

ProRox PS 960^{SA} is a pre-formed stone wool pipe section. The sections are supplied split and hinged for easy snap-on assembly, and are suitable for the thermal and acoustic insulation of industrial pipe work.

Compliance

Note

finish.

All steel components

exposed to a corrosive

environment should be

cleaned, degreased and

coated with a protective

ProRox PS 960^{SA} Pipe Sections comply with the requirements as set by internationally regonized CINI 2.2.03, ASTM C547 Grade A type I, II, IV.

Installation guidelines Assembly

Fit the ProRox PS 960^{SA} closely around the pipe, with the lengthwise (horizontal) joint turned towards the underside. The lengthwise joints must be staggered at an angle of at least 30 degrees to each other. The shell is secured with galvanised binding wire (thickness 0.5 mm, at least 3/m). For insulation thickness above 100 mm (or temperatures > 250°C) the insulation should be applied in at least two layers. In the case of multi-layer insulation it is recommended that the lengthwise and crosswise joints are staggered ('masonry bond').

Support construction

On pipes where mechanical loading (e.g. strong vibrations) of the insulation is expected and/or the temperature is higher than 300°C, a support structure (spacers) should be constructed. The number of spacers depends on the temperature and the

mechanical load. As a guide, the following intermediate distances can be used:

- Horizontal pipe work: 3 to 4 m
- Vertical pipe work: 5 to 6 m

Finishing

All pipe sections should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are required to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8 per metre. Close expansion joints with a steel tensioning wire. Connections to mountings, head and end caps, etc. should be made watertight using an appropriate sealant.

Advantages

- Excellent fit provides optimal performance
- Easy to handle and to install
- Wide range of diameters and insulation thicknesses
- Suitable for use over stainless steel
- For temperatures up to 350°C, a support construction is not generally necessary

| | Performance | | | | | | | | Standard |
|-----------------------------|---|---|----------|----------|-------|-------|-------------------|-----------------------------|----------------|
| Thermal Conductivity | Mean Temp (°C) | Mean Temp (°C) 50 100 150 200 250 300 350 | | | | | | ASTM C335 | |
| The mat conductivity | λ (W/mK) | 0.037 | 0.042 | 0.048 | 0.055 | 0.063 | 0.072 | 0.083 | ASTM CSSS |
| Nominal Density | | | 120 | kg/m³ | | | | | ASTM C335 |
| Maximum Service Temperature | | 650°C | | | | | | | ASTM C411/C447 |
| Reaction to Fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | EN 13501-1 ASTM E84 | |
| рН | pH 7-12.5 | | | | | | | ASTM C871 | |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | ASTM C871 ASTM C692/C871 | |
| Moisture Absorption | Less than 1 %weight | | | | | | ASTM C1104/C1104M | | |
| Water Absorption | | | Less the | an 1 kg/ | m² | | | | EN 13472 |

ProRox PS 970^{SA}

Old Equivalent Grade: RockTech SPI 150

Heavy duty pipe section



Dimensions

| Nominal pipe size (NPS) inches | Internal diameter pipe insulation (ASTM C585-10) mm |
|---|--|
| ½ | 22 |
| 3/4 | 27 |
| 1 | 34 |
| 1 1/4 | 43 |
| 1 ½ | 49 |
| 2 | 61 |
| 2 ½ | 74 |
| 3 | 90 |
| 3 1/2 | 102 |
| 4 | 115 |
| 4 ½ (Only available in Rayong factory) | 128 |
| 5 | 143 |
| 6 | 170 |
| 7 | 196 |
| 8 | 221 |
| 9 | 246 |
| 10 | 275 |
| 11 | 300 |
| 12 | 326 |
| 14 | 358 |
| 16 | 408.8 |
| 18 | 459.6 |
| 20 | 510.4 |
| 22 | 561.2 |
| 24 | 612 |
| 26 | 662.8 |
| 28 | 713.6 |
| 30 (Only available in Bukit Raja factory) | 764.4 |
| 32 (Only available in Bukit Raja factory) | 815.2 |

Applications

ProRox PS 970^{SA} is a pre-formed high density stone wool pipe section. The sections are supplied split and hinged for easy snap-on assembly, and are especially suitable for the thermal and acoustic insulation of industrial pipe work which is exposed to high temperature and light (e.g. vibrations) mechanical loads.

Compliance

Note

finish.

All steel components

exposed to a corrosive

environment should be

cleaned, degreased and

coated with a protective

ProRox PS 970^{SA} Pipe Sections comply with the requirements as set by internationally regonized CINI 2.2.03, ASTM C547 Grade A type I, II, IV.

Installation guidelines

Fit the ProRox PS 970^{SA} closely around the pipe, with the lengthwise (horizontal) joint turned towards the underside. The lengthwise joints must be staggered at an angle of at least 30 degrees to each other. The shell is secured with galvanised binding wire (thickness 0.5 mm, at least 3/m). For insulation thickness above 100 mm (or temperatures > 250°C) the insulation should be applied in at least two layers. In the case of multi-layer insulation it is recommended that the lengthwise and crosswise joints are staggered ('masonry bond').

Support construction

On pipes where mechanical loading (e.g. strong vibrations) of the insulation is expected and/or the temperature is higher than 300°C, a support structure (spacers) should be constructed. The number of

spacers depends on the temperature and the mechanical load. As a guide, the following intermediate distances can be used:

- Horizontal pipe work: 3 to 4 m
- Vertical pipe work: 5 to 6 m

Finishing

All pipe sections should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are required to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8/metre. Close expansion joints with a steel tensioning wire. Connections to mountings, head and end caps etc. should be made watertight using an appropriate sealant.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Excellent fit provides optimal performance
- Easy to handle and to install
- Wide range of diameters and insulation thicknesses
- Suitable for use over stainless steel
- For temperatures up to 350°C, a support construction is not generally necessary

Product properties

| | Performance | | | | | | | | Standard |
|-----------------------------|---|---|---------|----------|-------|-------|-------------------|-----------------------------|----------------|
| | Mean Temp (°C) | Mean Temp (°C) 50 100 150 200 250 300 350 | | | | | | | |
| Thermal Conductivity | λ (W/mK) | 0.038 | 0.043 | 0.048 | 0.055 | 0.063 | 0.072 | 0.082 | ASTM C335 |
| Nominal Density | | | 150 | kg/m³ | | | | ' | ASTM C335 |
| Maximum Service Temperature | | 650°C | | | | | | | ASTM C411/C447 |
| Reaction to Fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | EN 13501-1 ASTM E84 | |
| pH | pH 7-12.5 | | | | | | ASTM C871 | | |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | ASTM C871 ASTM C692/C871 | |
| Moisture Absorption | Less than 1 %weight | | | | | | ASTM C1104/C1104N | | |
| Water Absorption | | | Less th | an 1 kg/ | m² | | | | EN 13472 |

lacksquare

ProRox WM 950^{SA} Wired mat



Dimensions

Standard Width: 600 mm

| Thickness mm | Length mm |
|-----------------|--------------|
| 40 | 6000 |
| 50 | 5000 |
| 60 | 4000 |
| 70 | 4000 |
| 75 | 4000 |
| 80 | 3000 |
| 90 | 3000 |
| 100 | 3000 |

Standard Width: 1000 mm

| Thickness mm | Length mm |
|-----------------|--------------|
| 40 | 6000 |
| 50 | 5000 |
| 60 | 4000 |
| 70 | 4000 |
| 75 | 2500 |
| 80 | 2500 |
| 90 | 2500 |
| 100 | 2500 |

Note: Above sizes are based upon the production capabilities of the Melaka manufacturing plant. For other manufacturing plant's production capabilites on sizes, please refer to your local sales repesentative

Applications

ProRox WM 950^{SA} is a lightly bonded stone wool mat stitched on galvanised wire mesh using galvanised wire. The wired mat is suitable for thermal and acoustic insulation of industrial applications reaching high temperatures, such as industrial pipe work, boiler walls, furnaces and smoke ducts.

Compliance

ProRox WM 950^{SA} Wired Mats comply with the requirements as set by internationally recognized standards like CINI 2.2.02 and ASTM C592 Type I, II and III.

Advantages

- Suitable for high temperature application
- Flexible application
- Available in a wide range of thicknesses
- Suitable for use over stainless steel

Product properties

| | | Standard | | | | | | |
|-----------------------------|---|----------|-------|-------|-------|-------|------------------------|-----------------------------|
| | Mean Temp (°C) 50 100 150 200 250 300 | | | | | | | |
| Thermal Conductivity | λ (W/mK) | 0.038 | 0.046 | 0.053 | 0.062 | 0.071 | 0.080 | ASTM C335 |
| Nominal Density | | 80 | kg/m³ | | | | | EN 1602 |
| Maximum Service Temperature | | 6 | 50°C | | | | | ASTM C411/C447 |
| Linear Shrinkage | Less than 2% (at max service temperature) | | | | | | | ASTM C356 |
| Reaction to Fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | EN 13501-1 ASTM E84 | |
| рН | pH 7-12.5 | | | | | | | ASTM C871 |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | ASTM C871 ASTM C692/C871 |
| Moisture Absorption | Less than 1% weight | | | | | | | ASTM C1104/C1104M |
| Water Absorption | | EN 1609 | | | | | | |

Note

All steel components exposed to a corrosive environment should be cleaned, degreased and coated with a protective finish.

Installation guidelines

Assembly

Cut the wired mat to length, so that the mat fits the pipe with slight pre-stressing. The closing joints must be staggered at an angle of at least 30 degrees to each other. The closing joints of the mats (lengthwise and circular) must be wired together using steel wire (min. 0.5 mm) or secured with mat hooks. Stainless steel pipes and pipes with a temperature of > 400°C should preferably be insulated with ProRox WM 950^{SA}, in which both the mesh and the stitching wire is stainless steel. If the mats are assembled in multiple layers, both the lengthwise and circular joints must be staggered ('masonry bond').

Support construction

Given the limited pressure resistance of wired mats, in most cases a support is required for the board cladding. As a guideline, assume that a support is required every 3 to 4 metres.

Finishing

The insulation should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are provided to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8/metre. Close the expansion joints with a steel tensioning wire. Connections to mountings, head and end caps etc. should be made watertight using a suitable sealant.

ProRox WM 960^{SA}

Old Equivalent Grade:RockTech WM650

Heavy duty wired mat

Dimensions

Standard Width: 600 mm

| tanuaru wiutii: 000 iiiiii | | | | | | |
|----------------------------|--------------|--|--|--|--|--|
| Thickness mm | Length mm | | | | | |
| 25 | 8000 | | | | | |
| 30 | 8000 | | | | | |
| 40 | 6000 | | | | | |
| 50 | 5000 | | | | | |
| 60 | 4000 | | | | | |
| 70 | 4000 | | | | | |
| 75 | 4000 | | | | | |
| 80 | 3000 | | | | | |
| 90 | 3000 | | | | | |
| 100 | 3000 | | | | | |

Standard Width: 1000 mm

| Thickness mm | Length mm |
|-----------------|--------------|
| 25 | 6000 |
| 30 | 6000 |
| 40 | 5000 |
| 50 | 5000 |
| 60 | 4000 |
| 70 | 2500 |
| 75 | 2500 |
| 80 | 2500 |
| 90 | 2500 |
| 100 | 2500 |

Note: Above sizes are based upon the production capabilities of the Melaka manufacturing plant. For other manufacturing plant's production capabilites on sizes, please refer to your local sales repesentative

Applications

ProRox WM 960^{SA} is a lightly bonded heavy stone wool mat stitched on galvanised wired mesh with galvanised wire. The wired mat is especially suitable for industrial installations such as high-pressure steam pipes, reactors, furnaces, etc. where high demands are made on the temperature resistance of the insulation.

Compliance

ProRox WM 960^{SA} Wired Mats comply with the requirements as set by internationally recognized standards like CINI 2.2.02 and ASTM C592 Type I, II and III.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Resistant to high temperatures
- Flexible application
- Available in a wide range of thicknesses
- Suitable for use over stainless steel

Product properties

| | | Perf | ormano | е | | | | Standard | | |
|-----------------------------|-------------------|---|--------|-------|-------|-------|-------|-------------------|--|--|
| | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | | | |
| Thermal Conductivity | λ (W/mK) | 0.037 | 0.042 | 0.048 | 0.056 | 0.065 | 0.073 | ASTM C177 | | |
| Nominal Density | | EN 1602 | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | |
| Reaction to Fire | | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | |
| рН | | рН | 7-12.5 | | | | | ASTM C871 | | |
| Chloride Content | Conforms to the s | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | |
| Moisture Absorption | I | _ess tha | n 1% w | eight | | | | ASTM C1104/C1104N | | |
| Water Absorption | | EN 1609 | | | | | | | | |

Note

All steel components exposed to a corrosive environment should be cleaned, degreased and coated with a protective finish.

Installation guidelines

Assembly

Cut the wired mat to length, so that the mat fits the pipe with slight pre-stressing. The closing joints must be staggered at an angle of at least 30 degrees to each other. The closing joints of the mats (lengthwise and circular joints) must be wired together using e.g. steel wire min. 0.5 mm or secured with mat hooks. Stainless steel pipes and pipes with a temperature of > 400°C should preferably be insulated with ProRox WM 960SA, in which both the mesh and the stitching wire is in stainless steel. If the mats are assembled in multiple layers, both the lengthwise and circular joints must be staggered ('masonry bond').

Support construction

Given the limited pressure resistance of wired mats, in most cases a support is required for the board cladding. As a guideline, assume that a support is required every 3 to 4 metres.

Finishing

The insulation should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are provided to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8/metre. Close the expansion joints with a steel tensioning wire. Connections to mountings, head and end caps, etc. should be made watertight using a suitable sealant.

ProRox WM 970^{SA}

Old Equivalent Grade: RockTech WM650HD

Heavy duty wired mat



Dimensions

Standard Width: 600 mm

| Thickness mm | Length mm |
|-----------------|--------------|
| 25 | 8000 |
| 30 | 8000 |
| 40 | 6000 |
| 50 | 4000 |
| 60 | 3000 |
| 70 | 3000 |
| 75 | 3000 |
| 80 | 3000 |

Standard Width: 1000 mm

| Thickness mm | Length mm |
|-----------------|--------------|
| 25 | 5000 |
| 30 | 5000 |
| 40 | 4000 |
| 50 | 4000 |
| 60 | 2500 |
| 70 | 2000 |
| 75 | 2000 |
| 80 | 2000 |
| 75 | 2000 |

Note: Above sizes are based upon the production capabilities of the Melaka manufacturing plant. For other manufacturing plant's production capabilites on sizes, please refer to your local sales repesentative

Applications

ProRox WM 970^{SA} is a lightly bonded heavy stone wool mat stitched on galvanised wired mesh with galvanised wire. The wired mat is especially suitable for industrial installations where high temperature and vibration resistance is required.

Compliance

ProRox WM 970^{SA} Wired Mats comply with the requirements as set by internationally recognized standards like CINI 2.2.02 and ASTM C592 Type I, II and III.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Resistant to high temperatures
- Flexible application
- Available in a wide range of thicknesses
- Suitable for use over stainless steel

Product properties

| | | Perf | ormano | e | | | | Standard | | |
|-----------------------------|-------------------|---|---------|-------|-------|-------|-------|-------------------|--|--|
| T. 10 1 5 7 | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | ACTM OARR | | |
| Thermal Conductivity | λ (W/mK) | 0.038 | 0.043 | 0.050 | 0.057 | 0.066 | 0.076 | ASTM C177 | | |
| Nominal Density | | 128 kg/m³ | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | |
| Reaction to Fire | | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | |
| pH | | рН | 7-12.5 | | | | | ASTM C871 | | |
| Chloride Content | Conforms to the s | ASTM C871 ASTM C692/C871 | | | | | | | | |
| Moisture Absorption | L | ess tha | ın 1% w | eight | | | | ASTM C1104/C1104N | | |
| Water Absorption | | EN 1609 | | | | | | | | |

Note

All steel components exposed to a corrosive environment should be cleaned, degreased and coated with a protective finish.

Installation guidelines

Assembly

Cut the wired mat to length, so that the mat fits the pipe with slight pre-stressing. The closing joints must be staggered at an angle of at least 30 degrees to each other. The closing joints of the mats (lengthwise and circular joints) must be wired together using steel wire (min. 0.5 mm) or secured with mat hooks. Stainless steel pipes and pipes with a temperature of > 400°C should preferably be insulated with ProRox WM 970^{SA}, in which both the mesh and the stitching wire is in stainless steel. If the mats are assembled in multiple layers, both the lengthwise and circular joints must be staggered ('masonry bond').

Support construction

Given the limited pressure resistance of wired mats, in most cases a support is required for the board cladding. As a guideline, assume that a support is required every 3 to 4 metres.

Finishing

The insulation should be finished with a metal (e.g. aluminium) cladding. Where necessary expansion joints are provided to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8/metre. Close the expansion joints with a steel tensioning wire. Connections to mountings, head and end caps, etc. should be made watertight using a suitable sealant.

ProRox SL 930^{SA} Load bearing mat



Applications

ProRox SL 930^{SA} is a semi rigid stone wool slab. A one-sided facing with fibreglass reinforced aluminium foil (Alu) or glass tissue is available upon request.

Compliance

ProRox SL 930 $^{\rm SA}$ Slabs comply with the requirements as set by internationally recognized standards like CINI 2.2.01 and ASTM C612 Type IA and IB and II.

Advantages

- Available in a wide range of thicknesses
- Semi-rigid product combined with aluminium foil or fibreglass coating provides a smart, smooth surface finish

Product properties

| | | Perf | ormano | е | | | | Standard | | |
|-----------------------------|----------------------------|---|--------|----------|-------|--------|--|------------------------|--|--|
| T. 10 1 | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | | ACTM 0455 | | |
| Thermal Conductivity | λ (W/mK) | 0.039 | 0.047 | 0.054 | 0.064 | 0.075 | | ASTM C177 | | |
| Nominal Density | | EN 1602 | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | |
| Reaction to Fire | Surfac Flame spread = p | e burnir | • | acterist | | passed | | EN 13501-1 ASTM E84 | | |
| рН | | рН | 7-12.5 | | | | | ASTM C871 | | |
| Chloride Content | Conforms to the s | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | |
| Moisture Absorption | | ASTM C1104/C1104M | | | | | | | | |
| Water Absorption | | EN 1609 | | | | | | | | |

Installation guidelines

- Mechanically fix ProRox SL 930^{SA} using selfadhesive or welded pins. Due to the rigidity of the product, it can also be mounted in cassettes.
- In the case of aluminium foil facing, finish lengthwise and crosswise joints with a selfadhesive aluminium tape (>75 mm). When

insulating objects colder than the ambient temperature, where there is a risk of condensation, the insulation should be provided with a vapour barrier. The insulation should be finished with a metal (e.g. aluminium), watertight covering.

ProRox SL 950^{SA}



Applications

ProRox SL 950^{SA} is a strong, rigid slab, specially developed for the thermal and acoustic insulation of boilers, columns and vessels up to intermediate temperatures.

Compliance

ProRox SL 950^{SA} Slabs comply with the requirements as set by internationally recognized standards like CINI 2.2.01 and ASTM C612 Type IA, II, III and IVA.

Advantages

■ Suitable up to intermediate temperatures

Rigid slab

- Retains shape
- Available in a wide range of thicknesses

| | | Perf | ormanc | е | | | | Standard | | | |
|-----------------------------|----------------------------|---|--------|-------|-------|-------|-------|-----------|--|--|--|
| | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | | | | |
| Thermal Conductivity | λ (W/mK) | 0.038 | 0.046 | 0.053 | 0.062 | 0.072 | 0.081 | ASTM C177 | | | |
| Nominal Density | | EN 1602 | | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | | |
| Reaction to Fire | Surfac Flame spread = p | EN 13501-1 ASTM E84 | | | | | | | | | |
| pH | | рН | 7-12.5 | | | | | ASTM C871 | | | |
| Chloride Content | Conforms to the | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | | |
| Moisture Absorption | | ASTM C1104/C1104 | | | | | | | | | |
| Water Absorption | | EN 1609 | | | | | | | | | |

ProRox SL 960^{SA}

Old Equivalent Grade: RockTech S650



Applications

ProRox SL 960^{SA} is a strong and rigid slab and is especially suitable for the thermal and acoustic insulation of constructions up to intermediate temperatures.

Compliance

ProRox SL 960^{SA} Slabs comply with the requirements as set by internationally recognized standards like CINI 2.2.01 and ASTM C612 Type IA, II, III, IVA and IVB.

Advantages

- Excellent thermal and acoustic insulation
- Resistant to high temperatures

Product properties

| | | Perf | ormanc | е | | | | Standard | | | |
|-----------------------------|--------------------------|---|---------|-------|-------|-------|-------|-------------------|--|--|--|
| | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | 40714 0455 | | | |
| Thermal Conductivity | λ (W/mK) | 0.038 | 0.044 | 0.050 | 0.057 | 0.065 | 0.075 | ASTM C177 | | | |
| Nominal Density | | 100 kg/m³ | | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | | |
| Linear Shrinkage | Less than 2 ^o | ASTM C356 | | | | | | | | | |
| Reaction to Fire | | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | | |
| pH | | рН | 7-12.5 | | | | | ASTM C871 | | | |
| Chloride Content | Conforms to the s | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | | |
| Moisture Absorption | L | ess tha | ın 1% w | eight | | | | ASTM C1104/C1104N | | | |
| Water Absorption | | | EN 1609 | | | | | | | | |

ProRox SL 970^{SA}

Old Equivalent Grade: RockTech S650.128

High temperature slab



Applications

ProRox SL970^{SA} is a strong and rigid stone wool slab, for the thermal and acoustic insulation of constructions where higher temperatures and light mechanical loads (e.g. vibrations) occur. Typical examples are ovens, furnaces and exhaust ducts.

Compliance

ProRox SL 970^{SA} Slabs comply with the requirements as set by internationally recognized standards like CINI 2.2.01 and ASTM C612 Type IA, II, III, IVA and IVB.

Advantages

- Suitable for high temperature application
- Retains shape
- Available in a wide range of thicknesses

| | | Perf | ormano | e | | | | Standard | | | | |
|-----------------------------|---------------------------|---|---------|----------|-------------------|--------|-----|------------------------|--|--|--|--|
| | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | | | | | |
| Thermal Conductivity* | · | | | | | | | ASTM C177 | | | | |
| Nominal Density | | 128 kg/m³ | | | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | | | |
| Reaction to Fire | Surfa Flame spread = p | ce burnii | • | acterist | | passed | | EN 13501-1 ASTM E84 | | | | |
| рН | | рН | 7-12.5 | | | | | ASTM C871 | | | | |
| Chloride Content | Conforms to the | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | | | |
| Moisture Absorption | | ASTM C1104/C1104M | | | | | | | | | | |
| Water Absorption | | Less th | an 1 kg | /m² | Less than 1 kg/m² | | | | | | | |

ProRox SL 980 Heavy duty slab



Applications

ProRox SL 980 is a strong and rigid stonewool slab, for the thermal and acoustic insulation of constructions where higher demands are made on the temperature resistance and mechanical loads of the insulation.

Compliance

ProRox SL 980 Slabs fully comply with the requirements as set by internationally recognized standards like EN14303, CINI 2.2.01 and ASTM C612 Type IA, IB, II, III, IVA and IVB.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Retains shape
- Available in a wide range of thicknesses

Product properties

| | | | | | Per | forma | nce | | | | | | Norms |
|-------------------------------------|--|--|------------------|--------|--------|--------|----------------------|--------|--------|-------|----------------------|------------|-----------------------|
| | T (00) | | | | | | | | | | | | |
| Thermal conductivity | T (°C) | T (°C) 50 100 150 200 250 300 350 400 500 600 700 | | | | | | | | | | | EN 12667 |
| The mat conductivity | λ (W/mK) 0.040 0.044 0.049 0.055 0.062 0.069 0.077 0.086 0.106 0.130 0.158 | | | | | | | | | | | | |
| Mayimum Camina Tamananatum | | 700°C (1292°F) | | | | | | | | | | | |
| Maximum Service Temperature | 750°C (1382°F) | | | | | | | | | | | ASTM C411 | |
| | EuroClass A1 | | | | | | | | | | | EN 13501-1 | |
| Reaction to fire | : | Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | | ASTM E84 (UL 723) | | |
| Nominal density | | | | 1 | 45 kg/ | m³ (9. | 1 lb/ft ³ |) | | | | | EN 1602 |
| Water leachable chloride content | | | rms to as per | | | | | | | | | | ASTM C795 |
| | | | | | < | 1 kg/m | 1 ² | | | | | | EN 1609 |
| Water absorption | | Wate | r vapo | ur abs | orptio | n (Vap | or sor | ption) | ± 0.02 | % vol | | | ASTM C1104/ C1104M |
| Water vapour diffusion resistance | | | | | | μ = 1 | | | | | | | EN 14303 |

ProRox SL 978^{SA}

Old Equivalent Grade: RockTech S850

Heavy duty slab



Applications

ProRox SL 978^{SA} is a strong and rigid stonewool slab, for the thermal and acoustic insulation of constructions where higher demands are made on the temperature resistance and mechanical loads of the insulation.

Compliance

ProRox SL 978^{SA} Slabs comply with the requirements as set by internationally recognized standards like CINI 2.2.01 and ASTM C612 Type IA, II, III, IVA.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Retains shape
- Available in a wide range of thicknesses

| | | Perf | ormano | :e | | | | Standard | | |
|-----------------------------|-----------------|---|---------|----|--|--|--|-----------|--|--|
| | | | | | | | | | | |
| Thermal Conductivity* | Mean Temp (°C) | ASTM C177 | | | | | | | | |
| Thermat conductivity | λ (W/mK) | ASTM C177 | | | | | | | | |
| Nominal Density | | EN 1602 | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | |
| Reaction to Fire | | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | |
| рН | , | | 7-12.5 | | | | | ASTM C871 | | |
| Chloride Content | Conforms to the | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | | | |
| Moisture Absorption | | ASTM C1104/C1104M | | | | | | | | |
| Water Absorption | | | EN 1609 | | | | | | | |
| | | | | | | | | | | |

ProRox SL 540^{SA}

Old Equivalent Grade: RockTech S650.160.HC



Applications

ProRox SL 540^{SA} is a highly pressure resistant stone wool slab for the thermal and acoustic insulation of constructions where high temperatures and mechanical loads (e.g. vibrations) occur.

Compliance

ProRox SL 540^{SA} Slabs comply with the requirements as set by EN14303, CINI 2.2.01 and ASTM C612: type IA, IB, II, III, IVA...

Advantages

- Excellent thermal and acoustic insulation
- Resistant to high temperatures
- Resistant to mechanical loads

Product properties

| | | Perf | ormanc | e | | | | Standard | | |
|-----------------------------|-------------------|----------------|---------------------------------|----------|---------|----------|-------|-----------------------------|--|--|
| | = | | | | | | | | | |
| Thermal Conductivity | Mean Temp (°C) | 50 | 100 | 150 | 200 | 250 | 300 | ASTM C177 | | |
| The mat conductivity | λ (W/mK) | 0.038 | 0.045 | 0.052 | 0.062 | 0.070 | 0.079 | ASTIN OTT | | |
| Nominal Density | | 160 kg/m³ | | | | | | | | |
| Maximum Service Temperature | | ASTM C411/C447 | | | | | | | | |
| Linear Shrinkage | Less than 2 | ASTM C356 | | | | | | | | |
| Reaction to Fire | Surfac | EN 13501-1 | | | | | | | | |
| | Flame spread = p | assed, S | Smoke o | develop | ment= | passed | | ASTM E84 | | |
| рН | | pН | 7-12.5 | | | | | ASTM C871 | | |
| Chloride Content | Conforms to the s | tainles | nan 10 p s steel c ASTM C | :orrosio | n speci | fication | | ASTM C871 ASTM C692/C871 | | |
| | | | | | | | | | | |
| Moisture Absorption | l | | ASTM C1104/C1104M | | | | | | | |
| Water Absorption | | EN 1609 | | | | | | | | |

ProRox SL 560

Old Equivalent Grade: ROCKWOOL 251

Heavy duty slab



Applications

ProRox SL 560 is a highly pressure resistant stone wool slab for the thermal and acoustic insulation of constructions where high temperatures and mechanical loads (e.g. vibrations) occur.

Compliance

ProRox SL 560 Slabs comply with the requirements as set by EN14303, CINI 2.2.01 and ASTM C612: type IA, IB, II, III, IVA.

Advantages

- Excellent thermal and acoustic insulation
- Resistant to high temperatures
- Resistant to mechanical loads

| | | | | | Per | forma | nce | | | | | | Norms |
|-------------------------------------|---|---|--------|--------|---------|---------|----------------|--------|--------|----------------------|--------|------------|----------------------|
| | T (°C) | T (°C) 50 100 150 200 250 300 350 400 500 600 700 | | | | | | | | | | | EN 12667 |
| Thermal conductivity | λ (W/mK) 0.042 0.047 0.052 0.057 0.064 0.072 0.082 0.093 0.117 0.147 0.181 | | | | | | | | | | | | |
| Maximum Service Temperature | | 700°C (1292°F) | | | | | | | | | | | |
| Maximum Service Temperature | | 750°C (1382°F) | | | | | | | | | | | ASTM C411 |
| | EuroClass A1 | | | | | | | | | | | EN 13501-1 | |
| Reaction to fire | Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | | | | ASTM E84 (UL 723) | | | |
| Nominal density | | | | 1 | 75 kg/ı | n³ (10. | 9 lb/ft | 3] | | | | | EN 1602 |
| Water leachable chloride content | | | | the s | | | | | | cation | | | ASTM C795 |
| | | | | | < | 1 kg/n | n ² | | | | | | EN 1609 |
| Water absorption | | Wate | r vapo | ur abs | orptio | n (Vap | or sor | ption) | ± 0.02 | %vol | | | ASTM C1104 C1104M |
| Water vapour diffusion resistance | | μ=1 | | | | | | | | | | | EN 14303 |
| Compression resistance | > 30 kPa (at 10% deformation) | | | | | | | | | | EN 826 | | |



Applications

ProRox SL 580 is a pressure resistant stone wool slab with high resistance to mechanical loads. The compression resistant slab is developed for the thermal insulation of tank roofs subjected to pedestrian traffic, and the thermal and acoustic insulation of onstructions subjected to a mechanical load.

Compliance

ProRox SL 580 Slabs fully comply with the requirements as set by internationally recognized standards like EN14303, CINI 2.2.01 and ASTM C612 Type IA, IB, II, III, IVA and IVB.

Advantages

- Resistant to foot traffic
- Available in a wide range of thicknesses

Product properties

| | | Norms | | | | | |
|-----------------------------------|--|----------|-----------|---------|-------|------------------------------|---------------------------------|
| | T (°C) | EN 40//E | | | | | |
| Thermal conductivity | λ (W/mK) | 0.041 | 0.047 | 0.053 | 0.060 | 0.067 | EN 12667 |
| Maximum Service Temperature | 250°C (482°F) | | | | | | EN 14706 ASTM C411 |
| Reaction to fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | EN 13501-1 ASTM E84 (UL 723) |
| Nominal density | | 150 k | g/m³ (9.4 | lb/ft³) | | | EN 1602 |
| Water leachable chloride content | Conforms to the stainless steel corrosion specification as per ASTM test methods C 692 and C 871 | | | | | | ASTM C795 |
| Water absorption | < 1 kg/m² Water vapour absorption (Vapor sorption) ± 0,02% vol | | | | | EN 1609 ASTM C1104/C1104M | |
| Water vapour diffusion resistance | | | μ = 1 | | | | EN 14303 |
| Compression resistance | > 50 kPa (at 10% deformation) | | | | | EN 826 | |

ProRox BL 938^{SA}

Old Equivalent Grade: RockTech B350

Standard Range

| Thickness mm | Length mm | Width mm |
|-----------------|--------------|-------------|
| 50 | 5000 | 600 |
| 75 | 2500 | 600 |

Applications

ProRox BL 938^{SA} is a Blanket type product used in thermal insulation of non-viberating industrial equipment's where temperatures can be up to 350 deg Celsius.

Compliance

ProRox BL 938^{SA} Blanket comply with the requirements as set by internationally recognized standards like ASTM C553 Type I, II and III.

Advantages

Ease of useFlexible Application

Product properties

| | Performance | | | | | | Standard | |
|-----------------------------|---|----------|---------|-------|-----------|-----------------------------|------------------------|-------------------|
| Thermal Conductivity | Mean Temp (°C) | 50 | 100 | 150 | | | | - ASTM C177 |
| Thermat Conductivity | λ (W/mK) | 0.039 | 0.047 | 0.057 | | | | ASTM C177 |
| Nominal Density | 60 kg/m³ | | | | | | EN 1602 | |
| Maximum Service Temperature | 350°C | | | | | | ASTM C411/C447 | |
| Linear Shrinkage | Less than 2% (at max service temperature) | | | | | | ASTM C356 | |
| Reaction to Fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | EN 13501-1 ASTM E84 | |
| pH | pH 7-12.5 | | | | ASTM C871 | | | |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | ASTM C871 ASTM C692/C871 | | |
| Moisture Absorption | I | _ess tha | ın 1% w | eight | | | | ASTM C1104/C1104M |
| Water Absorption | Less than 1 kg/m² | | | | | | EN 1609 | |

Note: For more product dimension details, please refer to your local

Old Equivalent Grade: RockTech B450

Blanket

Standard Range

| Thickness mm | Length mm | Width mm |
|-----------------|--------------|-------------|
| 50 | 5000 | 600 |
| 75 | 2500 | 600 |

Applications

ProRox BL 958^{SA} is a flexible stone wool Blanket. It is suitable for the thermal insulation of nonvibrating industrial equipment's where temperatures can be up to 450 deg Celsius.

Compliance

ProRox BL 958^{SA} Blanket comply with the requirements as set by internationally recognized standards like ASTM C553 Type I, II, III and IV.

Advantages

- Suitable up to intermediate temperature
- Ease of use & Flexible application

Product properties

| | Performance | | | | | | | Standard |
|-----------------------------|---|-----------|--------|----------|-------|--------|-----------------------------|------------------------|
| TI 10 1 "" | Mean Temp (°C) 50 100 150 200 250 | | | | | | ACTM OARR | |
| Thermal Conductivity | λ (W/mK) | 0.039 | 0.046 | 0.054 | 0.064 | 0.075 | | ASTM C177 |
| Nominal Density | | 80 | kg/m³ | | , | | | EN 1602 |
| Maximum Service Temperature | 450°C | | | | | | ASTM C411/C447 | |
| Linear Shrinkage | Less than 2% (at max service temperature) | | | | | | ASTM C356 | |
| Reaction to Fire | Surfac Flame spread = p | e burnii | • | acterist | | passed | | EN 13501-1 ASTM E84 |
| рН | | pH 7-12.5 | | | | | | ASTM C871 |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | | ASTM C871 ASTM C692/C871 | |
| Moisture Absorption | | Less tha | n 1% w | eight | | | <u> </u> | ASTM C1104/C1104M |
| Water Absorption | Less than 1 kg/m² | | | | | | EN 1609 | |

ProRox BL 960^{SA}

Old Equivalent Grade: RockTech B650

Blanket



Standard Range

| Thickness mm | Length mm | Width mm |
|-----------------|--------------|-------------|
| 50 | 5000 | 600 |
| 75 | 2500 | 600 |

Applications

ProRox BL 960^{SA} is a Blanket type product used in thermal insulation of non-vibrating industrial equipment's where temperatures can be up to 650 deg Celsius.

Compliance

ProRox BL 960^{SA} Blanket comply with the requirements as set by internationally recognized standards like ASTM C553 Type I, II, III, IV, V, VI and VII.

Advantages

Resistance to high temperatures ■ Ease of use & Flexible application

| | | Performance | | | | | | |
|-----------------------------|---|---|--------------------------------|----------|---|-----------------------------|-----------|------------------------|
| | | | | | | | | |
| Thermal Conductivity | Mean Temp (°C) 50 100 150 200 250 300 | | | | | | ASTM C177 | |
| The mat conductivity | λ (W/mK) 0.041 0.049 0.057 0.066 0.074 0.83 | | | | | | | ASTM CT/7 |
| Nominal Density | | 100 | kg/m³ | | | | | EN 1602 |
| Maximum Service Temperature | | 650°C | | | | | | ASTM C411/C447 |
| Linear Shrinkage | Less than 29 | Less than 2% (at max service temperature) | | | | | | ASTM C356 |
| Reaction to Fire | Surfac Flame spread = pa | e burnir | Class A ng chara Smoke d | acterist | • | oassed | | EN 13501-1 ASTM E84 |
| рН | | pH 7-12.5 | | | | | | ASTM C871 |
| Chloride Content | Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795 | | | | | ASTM C871 ASTM C692/C871 | | |
| Moisture Absorption | L | ess tha | n 1% w | eight | | | | ASTM C1104/C1104M |
| Water Absorption | | Less th | an 1 kg | /m² | | | | EN 1609 |

ProRox LF 970 Loose Fill



Applications

ProRox LF 970 ROCKWOOL Loose Fill is lightly bonded impregnated stone wool. This product is especially suitable for thermal insulation and acoustic insulation of joints and irregularly formed constructions.

Advantages

Ease of useFlexible application

Product properties

| | Performance | | | | | | | Norms |
|--|--|-------|-------|-------|-------|-------|------------------------------------|----------|
| | T (°C) 50 100 150 200 250 300 | | | | | | | EN 40//E |
| Thermal conductivity | λ (W/mK) | 0.040 | 0.049 | 0.057 | 0.067 | 0.075 | 0.091 | EN 12667 |
| Maximum Service Temperature | 680°C (1256°F) | | | | | | EN 14706 ASTM C411 | |
| Reaction to fire | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | | EN 13501-1 ASTM E84 (UL 723) | |
| Water absorption | < 1 kg/m² Water vapour absorption (Vapor sorption) ± 0,02% vol | | | | | | EN 1609 ASTM C1104/C1104M | |
| AS quality (Water leachable chloride content) | Chloride content < 10 ppm Conforms to the stainless steel corrosion specification as per ASTM test methods C 692 and C 871 < 10 mg/kg (ph-value neutral to slightly alkaline) | | | | | | EN 13468 ASTM C795 ASTM C871 | |
| Water vapour diffusion resistance | μ = 1 | | | | | | EN 12086 | |

ProRox GR 903 Granulate wool



Applications

ProRox GR 903 is a stone wool granulate with no additives. The granulate is especially suitable for the thermal insulation of cold boxes and air separation plants.

Advantages

- Complies with the most stringent requirements for the insulation of cold boxes
- Chemically inert to steel
- Easy to remove for inspection purposes

Product properties

| | Performance | | | | | | Norms | | | | | | | |
|----------------------|-------------|---|-------|-------|-------|-------|---------------------------------|-----------|--|--|--|--|--|-----------|
| | T (°C) | 20 | -20 | -60 | -100 | -140 | -180 | 5N 40//5 | | | | | | |
| Thermal conductivity | λ (W/mK) | 0.039 | 0.033 | 0.027 | 0.022 | 0.018 | 0.015 | EN 12667 | | | | | | |
| | | Chloride content < 10 ppm | | | | | | EN 13468 | | | | | | |
| AS quality | | Conforms to the stainless steel corrosion specification as per ASTM test methods C 692 and C 871 < 10 mg/kg (ph-value neutral to slightly alkaline) | | | | | | | | | | | | ASTM C795 |
| | < 10 mg | | | | | | | ASTM C871 | | | | | | |
| Reacton to fire | Surface bur | EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed | | | | | EN 13501-1 ASTM E84 (UL 723) | | | | | | | |

Installation guidelines

The guidelines for the use of granulate wool in cold applications are given in the AGI Q 118 standard.

These guidelines are available on request. Please ask your ROCKWOOL Technical Insulation sales consultant.

Delivery and storage

ROCKWOOL Technical Insulation can accept no liability for any faults in installation and deficiencies. The respective terms of general sale and delivery of ROCKWOOL by, lodged with the Commercial Court under number 13014428. A copy of these conditions can be provided on request.

Delivery service

ROCKWOOL Technical Insulation strives to make all its products readily available. Delivery normally takes place from our dealers' warehouses. However, direct delivery by ROCKWOOL Technical Insulation to the site of installation is also possible. To simplify construction site logistics, deliveries using containers can be arranged. Contact your dealer for more information.

Packaging and storage

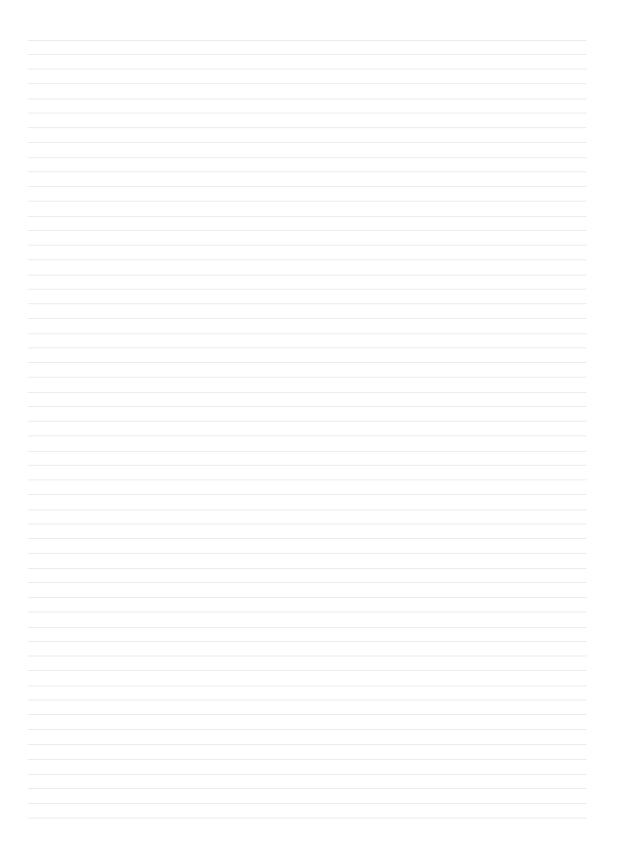
Where our goods are supplied packed, packaging is included in the price. The polyethylene used in packaging is free of chlorine and sulphur compounds, and suitable for recycling. ROCKWOOL Technical Insulation products must be stored in the original packaging, protected from the weather and off the ground.

Advice

ROCKWOOL Technical Insulation offers more than just the rapid delivery of the right product. ROCKWOOL can also act as your partner during the design phase to help to resolve technical problems, such as providing advice for complex technical insulation calculations, construction advice and help with drafting specifications.

All the values given in this publication are indicative average values, subject to manufacturing tolerances. ROCKWOOL Technical Insulation retains the right to change product specifications at any time without prior notice.

Notes



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