SRW Acoustic Panel

Description:
SRW Acoustic Panel is a semi-rigid panel manufactured from Rockwool using thermosetting binder to form panels of medium to high density. SRW Acoustic panel is manufactured according to ASTM C-612 requirements.

Application:
SRW Acoustic Panel is classified into types:

1. **Acoustic insulation panel**: acoustic insulation panel is normally used with the wall/partition components to reduce the noise transmitted through the walls/partitions.
   - **Application**: SRW Acoustic Panel is used in the construction of commercial and residential buildings, schools, hospitals, hotels, and offices buildings etc., by installing it in wall cavities or partitions to improve and increase the acoustic insulation between the adjacent rooms/partitions.

2. **Acoustic absorption panel**: acoustic absorption panel is used to reduce echo and modify reverberation time inside a room/space. It is normally applied/ fixed on the wall surface to receive and absorb the incident sound waves and minimize its reflection, providing comfort to the listener and sound intelligibility. It can be faced with different decorative materials.
   - **Application**: SRW acoustic absorption panel is used in theaters, lecture rooms, conference rooms, banquet halls etc. (Special fabrics are used as facing material, available colors on request.

Packing:
SRW Acoustic Insulation Panel is packed in polyethylene bags; each bag contains a number of pieces depending on the thickness, SRW Acoustic Absorption Panel is packed in carton boxes.

Maintenance:
Once SRW Acoustic Panels are installed they do not need any maintenance.

Facing:
SRW Acoustic Panel uses a non-woven fiber tissue as a facing material.

Advantages:
- Excellent thermal insulation.
- Effective acoustic insulation.
- Effective in stopping flame spreading
- No health hazard, asbestos free.
- Chemically and biologically inert.
- Environment friendly (CFC and HCFC free).
- Easy handling and installation.
- Water repellent.

Product Ranges:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width m</td>
<td>Length m</td>
<td>Kg/m³</td>
</tr>
<tr>
<td>0.60</td>
<td>1.20</td>
<td>60-100</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order.

Storage:
SRW Acoustic Panel must be stored in an area where it is protected from water exposure and physical damage.

Installation:
- Install the SRW Acoustic panels side by side in wall cavities.
- Use fasteners for installation of SRW Acoustic panels when wall cavities are much thicker than insulation.
- Acoustic absorption panels are normally mounted on the wall surface by different methods depending on the finishing level required.

Technical Properties:
- Noise reduction NRC 0.7-1.05
- Non combustible
- Water vapor sorption <1% (by weight)
- PH <7-9
- Flame spread index <10
- Smoke developed <20
SRW Cavity Panel

Description:
The Cavity Panel are processed from Rockwool fiber bonded with thermosetting synthetic resin to form semi rigid panels of medium density. SRW Cavity Panels manufactured according to ASTM C-612 requirements.

Application:
SRW Cavity panels are designed for a wide range of application such as residential building, schools, hospitals, government and commercial officer for exterior or interior thermal and acoustical insulation.

Product Range:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width m</td>
<td>Length m</td>
<td>(35-70)</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order

Packing:
SRW Cavity Panels is packed in polyethylene shrinkage bags each bag contains a number of pieces depending on the thickness.

Storage:
SRW Cavity Panels must be stored in an area where it is protected from water exposure and physical damage.

Maintenance
Once Cavity Panels are installed they do not need any maintenance.

Insulation:
Place the first (lower) row of cavity panels either on concrete cavity in fill or on the first of wall ties, trimming might be necessary to bring the cavity panel in course with the first raw of the wall. Otherwise space the wall ties so that each panel is in the first row is supported on at least two ties, compress the top of each cavity panel slightly downwards and place a number of them between the upper and lower rows of wall ties to form a closely butted row. Build up the inner leaf of the wall to the same level of the cavity panel, do not advance the inner leaf of the wall to above cavity panel, and protect the top of the cavity panel from mortar dropping.

Advantages:
- Excellent thermal and acoustic insulation.
- Stable physical and chemical properties.
- No health hazard, asbestos free.
- Environment friendly.
- Water repellent.
- Does not encourage the growth of fungi, moids or bacteria.
- Easy to cut, handle and install.
- Saves energy thus saving money.

Facing:
SRW Cavity Panels comes without or with one or both side faces (Aluminum foil, Bitumen paper, and black fiber glass veil and polyethylene bags).

Technical Properties:
- Thermal conductivity at 24° 0.034-0.037 (W/MK)
- Max. use temperature 750⁰C
- Non combustible
- Flam spread index <10
- Smoke developed <20
- Water vapor sorption <1% (by weight)
- Compatible with other material
- Negligible shrinkage when exposed to high temperature
- Noise reduction NRC 0.8-1.05
SRW Duct Board

Description:
SRW duct board is a semi-rigid board manufactured from Rockwool using thermosetting binder to acquire rectangular shape according to ASTM C-612.

Application:
SRW duct board thermal insulation for the heat ventilation and air conditioning system to be installed in all types of buildings and structures, in order to achieve the required thermal insulation coupled with fire safety and acoustic insulation.

Product Range:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width: m</td>
<td>Length: m</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
<td>35, 50, 65, 100</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order.

Packing:
SRW duct board is packed in polyethylene bags; each bag contains a number of pieces depending on the thickness.

Storage:
SRW duct board must be stored in an area where it is protected from water exposure and physical damage.

Maintenance:
Once SRW duct board is installed they do not need any maintenance.

Installation:
- Pre-installation check:
The duct board dimension, face and specification are as required by the HVAC system.
- When installing duct board, it is essential to have:
The proper fasteners material and the HVAC duct are in the proper shape clean and dry.
- Insulation procedure:
Compress the edges of each duct board gently and slightly in the required direction to form a closely butted box around the duct, trimming and cutting may be necessary.
Use the proper fasteners to keep the duct board in their place.

Advantages:
- Excellent thermal insulation.
- Effective acoustic insulation.
- Fire safe
- A physical and chemical property does not change with time.
- No health hazard, asbestos free.
- Environment friendly (CFC and HCFC free)
- Does not encourage the growth of fungi, molds or bacteria.
- Reduce condensation threat on the inner wall of building.
- Easy handling and installation.
- Saving energy thus saving money.

Facing:
The duct board faced with reflective vapor retarder material to prevent moisture penetration through the insulation. Can be faced from one or both sides.

Technical Properties:
- K-value range from 0.042-0.035(W/MK)
- Service temperature for -40⁰C to 750⁰C.
- Non combustible
- Flam spread index <10
- Smoke developed <20
- Noise reduction NRC 0.7-0.9
- Water vapor sorption <1% weight
- Does not encourage fungi or vermin
- Non-corrosive.
**SRW HD Blanket**

**Description**
HD blanket is produced from molten basalt rocks, lightly bonded with thermo setting binder formed into flexible blanket by stitching with cotton or fiber glass yarns. HD blanket can be non faced or faced from one or both sides with reflective vapor retarder reinforced aluminum foil, HD blanket meets the technical requirements of ASTM C-553 (Standard specification for mineral fiber blanket insulation industrial type).

**Application:**
HD blanket designed for high thermal resistance applications for the cool and hot services such as cold store, storage tanks, boilers, ovens, chimney walls, heated ducts etc.

**Product Range:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width m</td>
<td>Length m</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>4-12</td>
<td>30-120</td>
</tr>
<tr>
<td>0.6-1.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: other sizes can be produced upon special order*

**Packing:**
HD blanket is packed in polyethylene bags; each bag contains a roll with a length depending on the thickness.

**Storage:**
HD blanket must be stored in an area where it is protected from water exposure and physical damage.

**Maintenance:**
Once HD Blanket are installed they do not need any maintenance.

**Insulation:**
The HD Blankets are wrapped around the area to be insulated, the galvanized steel bands are required for support, the welded pins and lock washers are necessary to prevent sagging. The steel or aluminum sheet is fitted around the insulation with over lapping of 50mm, and the joints are filled with suitable sealant and screwed to avoid water.

**Advantages:**
- Excellent thermal resistance.
- High sound absorption material.
- Non-Corrosive.
- Stable physical properties.
- Chemically inert.
- Non-Combustible.
- High fire rating.
- Water repellent.
- Asbestos free.
- Easy handling and installation.

**Facing:**
HD Blanket can be non faced or faced from one or both sides with reflective vapor retarded reinforced aluminum foil.

**Technical Properties:**
- Thermal conductivity 0.036-0.038 (W/MK)
- Maximum service temperature 750°C
- Shot Content < 25% (by weight)
- Water vapor sorption < 1% (by weight)
- PH 8.9
- Flame spread < 10
- Smoke develop < 15
- Dose not encourage fungi growth
- Excellent noise reduction NRC 0.6-1.1.
SRW LD Blanket

Description:
LD Blanket is produced from basalt rocks processed from the molten state into fibrous form to get flexible rolls or blankets insulation using thermosetting binder. LD Blanket can be faced either with reflective facing (aluminum foil) or non-reflective facing (Kraft paper) metalized foil. LD Blanket meets the ASTM C-665 and ASTM C-553 requirements.

Application:
LD Blanket is designed to insulate service at moderate ambient temperature it is used in light steel structure, prefab houses, wall partition, cavity wall, etc.

Product Range:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width m</td>
<td>Length m</td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>0.60-1.2</td>
<td>3-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35-60</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30-150</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order.

Packing:
LD blanket is packed in polyethylene bags; each bag contains a roll with a length depending on the thickness.

Storage:
LD blanket must be stored in an area where it is protected from water exposure and physical damage.

Maintenance:
Once LD blankets are installed they do not need any maintenance.

Installation:
LD blanket is light and easy to handle and fix. The LD Board can be cut and shaped by using a sharp, broad bladed knife.

Advantages:
- Excellent thermal and acoustical properties.
- Non-Corrosive
- Stable physical properties.
- High flexibility material
- Asbestos free
- Chemically and biologically inert.
- Durable
- No odor emission
- Cost effective
- Easy handling and installation.
- Light weight.

Facing:
LD Blanket can be faced either with reflective facing (aluminum foil) or non-reflective facing (Kraft paper) metalized foil.

Technical Properties:
- Thermal conductivity 0.034-0.04(W/MK)
- Moisture content < 25% by weight
- Non-combustible
- Ph 8-9
- Flame spread index <10
- Smoke developed <15
- Noise reduction NRC 0.7-1.1
- Water repellent
- Does not encourage fungi or vermin
- Non-hygroscopic

Sound Transmission Loss For Wall Partitions

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SRW Duct Wrap

Description:
SRW duct wrap is a flexible insulation manufactured from Rockwool using thermosetting binder, to acquire the required shape and specification, complying with ASTM C-1290.

Application:
SRW duct wrap is used for thermal insulation of the HVAC ducts. It can be installed on all types of ducts, in order to achieve the required thermal insulation coupled with fire safety and acoustic insulation.

Product Range:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width m</td>
<td>Length m</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>10</td>
<td>35-50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40-50</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order

Packing:
SRW duct wrap is packed in polyethylene shrinkage bags.

Storage:
SRW duct wrap must be stored in an area where it is protected from water exposure and physical damage.

Maintenance:
Once SRW duct wrap are installed they do not need any maintenance.

Installation:
- Pre-installation check:
The duct wrap dimension, face and specification are as required by the HVAC system.
- When installing duct wrap, it is essential to have:
The proper fasteners material and the HVAC duct are in the proper shape clean and dry.
- Insulation procedure:
Place the duct wrap gently and carefully around the duct, then cut and trim the duct wrap as per required dimensions making sure that the edge of the duct wrap closely butted.
Use the proper fasteners to place the duct wrap in location.

Advantages:
- Excellent thermal insulation.
- Effective acoustic insulation.
- Fire safe
- Physical and chemical property does not change with time.
- No health hazard, asbestos free.
- Environment friendly (CFC and HCFC free)
- Does not encourage the growth of fungi, molds or bacteria.
- Reduce condensation threat on the inner wall of building.
- Easy to cut, handle and install.
- Saving energy thus saving money.

Facing:
The duct board faced with reflective vapor retarder material penetration through the insulation.

Technical Properties:
K-value range from 0.042-0.035(W/MK).
Non combustible.
Flam spread index <10.
Shot content meets with the requirements of ASTM C-612.
Smoke developed <20.
Water vapor sorption <1% weight.
Negligible shrinkage when exposed to high temperature.
Dose not show any tendencies for corrosion when placed directly on steel.
SRW Pipe Section

Description:
SRW per-formed pipe is a rigid high-density pipe insulation manufactured from Rockwool and thermostetting binder to obtain the circular shape and specification to fit over the specific pipe and it is produced to meet the ASTM C-547 & C-585 requirement.

Application:
SRW per-formed pipe insulation is used over a very wide temperature range to insulate all sizes cold and hot pipes of domestic water in building and also for pipes in industrial and chemical processes such as in oil refineries, chemical and petrochemical industries, desalination plants, HVAC system, oil pipes and many other applications.

Product Range:

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>Nominal Density Kg/m³</th>
<th>Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;-24&quot;</td>
<td>100-150</td>
<td>25-100</td>
</tr>
</tbody>
</table>

Note: other sizes can be produced upon special order

Installation:
Prior to the installation of SRW pipe insulation, it is important to consider the following notes:

- Clean up and dry all the surfaces to be insulated before the installation of pipe section insulation. Under no circumstances should surface be insulated while they are wet or in frosted condition.
- Unpainted stainless steel surface must be brushed only with stainless steel brushes. It is not allowed to use any detergents or solvents containing chlorides to clean stainless steel surfaces from grease or other dirties.
- Sufficient space should be left between pipe line for the ease of installation.
- All taps, valves, etc. must be positioned so that they can be operated without then need to stand on the insulation.
- The specification must clearly describe the required insulation construction.
- At installation, the pipe section should be wrapped around the pipe and the ends butt jointed. The self adhesive tape is used to seal the pipe section after it is snapped on the pipe. Binding wires could be used to secure the insulation around the pipe to insure maximum safety in the event of fire.
- Circumferential joint must also be carefully sealed with adhesive tape.
- Pipe bides are insulated to the same specification as the adjacent straight piping. Pipe section should be cut mitered segment fashion.
- Stapling of the aluminum sealing strip (overlap) and thus puncturing the vapor barrier is not permissible.
- For cold applications, the insulation thickness must be carefully calculated to avoid moisture condensation on the outer surface of the insulation.

Advantages:
- Excellent thermal and acoustical insulation
- Withstand sever vibration
- Physical and chemical properties do not change with time.
- No health hazards, asbestos free.
- Does not encourage the growth of fungi, molds or bacteria.
- Water repellent.
- Easy to cut, handle, and install.
- Environment friendly (CFC and HCFC free)

Packing:
SRW per-formed pipe is packed in polyethylene bags each bag contains a number of pipes depending on its size in inches.

Storage:
SRW per-formed pipe must be stored in an area where it is protected from water exposure and physical damage

Maintenance:
Once SRW per-formed pipes are installed they do no need any maintenance.

Facing:
SRW per-formed pipe can be faced with aluminum foil metalized foil, PVC or none.

Technical Properties:
- Thermal conductivity 0.037 (W/MC)
- Shot content < 25% by weight
- Maximum service temperature 750°C.
- Non combustible
- Water vapor sorption <1% by weight.
- pH 8-9
- Flamm spread index <10
- Smoke developed <20
- Non-corrosive.