

GLASS WOOL PREFABRICATED PIPE



These are the pipes either unfaced or faced with aluminium foil manufactured from glass wool of high unit weight. They are used for the thermal insulation of industrial pipes, central heating and solar energy installations, for the insulation against freezing and condensation of the pipes and for vibration and sound insulation of the pressure water pipes as well.

Application

Appropriate Glass Wool Prefabricated Pipe according to nominal diameter of the pipe line to be used is chosen. It is placed by parting cut line. The application is completed so that no gap is left between the joints. Unfaced pipes are coated with bituminous emulsion or bituminous membranes, galvanized or aluminium jacket. Coating joints are fastened by adhering, clamping, riveting or screwing. For the pipes coated with aluminium foil that are used for the insulation of cold lines, adhesive tape on overlap allowance and vapour barrier foil coating make the installation process notably easy. In this application, the joint of the two pipes should definitely be sealed with an adhesive aluminium foil tape with 7,5 mm width and vapour passage should totally be prevented. If a double layer application for the pipe insulation is carried out, care should be taken to line up the joint of second layer with the bottom of the pipe and to ensure the joints are staggered.

| Pipe Diameter | | Thickness (mm) | | | | | | |
|---------------|-----|----------------|----|----|----|----|----|-----|
| inch | mm | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 1/4 | 13 | + | + | + | + | | | |
| 1/2 | 21 | + | + | + | + | + | | |
| 3/4 | 27 | + | + | + | + | + | | |
| 1 | 33 | + | + | + | + | + | | |
| 1 1/4 | 42 | + | + | + | + | + | | |
| 1 1/2 | 48 | + | + | + | + | + | | |
| * | 57 | + | + | + | + | + | | |
| 2 | 60 | + | + | + | + | + | + | |
| * | 63 | + | + | + | + | + | + | |
| * | 70 | + | + | + | + | + | + | |
| 2 1/2 | 76 | + | + | + | + | + | + | + |
| * | 83 | + | + | + | + | + | + | + |
| 3 | 89 | + | + | + | + | + | + | + |
| * | 102 | + | + | + | + | + | + | + |
| * | 108 | + | + | + | + | + | + | + |
| 4 | 114 | + | + | + | + | + | + | + |
| * | 127 | + | + | + | + | + | + | + |
| * | 133 | + | + | + | + | + | + | + |
| 5 | 140 | + | + | + | + | + | + | + |
| * | 159 | + | + | + | + | + | + | + |
| 6 | 169 | + | + | + | + | + | + | + |
| * | 193 | | + | + | + | + | + | + |
| 8 | 219 | | + | + | + | + | + | + |
| * | 244 | | + | + | + | + | + | + |
| 10 | 273 | | + | + | + | + | + | + |
| 12* | 324 | | + | + | + | + | + | + |
| 14* | 356 | | + | + | + | + | + | + |

* Grey lines are produced by order.



Thermal conductivity related with temperature

| Thermal Conductivity (W/mk) | Average Temperature (°C) | 50 | 0,036 |
|-----------------------------|--------------------------|-----|-------|
| | | 100 | 0,043 |
| | | 150 | 0,050 |
| | | 200 | 0,059 |
| | | 250 | 0,069 |

- High thermal insulation
- Fire safety
- Fast and easy installation
- Sound and vibration insulation



TECHNICAL DATA SHEET

izocam Glass Wool Prefabricated Pipe

| Properties | Symbol | Unit | Description | | | | | Tolerance | Standard | |
|-------------------------------|----------------|-------------------|-------------|-------|-------|-----------------------------------|-------|---|-------------|---------------|
| Material | - | - | Glass Wool | | | | | - | TS EN 14303 | |
| Density | - | kg/m ³ | See Table | | | | | ± 15 % | - | |
| Wall Thickness | - | mm | See Table | | | | | ± 3 mm or ±6 % (which is greater) | TS EN 823 | |
| Length | - | mm | 1200 | | | | | ± 5 mm | TS EN 822 | |
| Inner Diameter | - | mm | See Table | | | | | +4 mm, -1 mm or +2 %, -1 % (which is greater) | TS EN 13467 | |
| Declared Thermal Conductivity | T _m | °C | 50 | 100 | 150 | 200 | 250 | < 0,035 | TS EN 12667 | |
| | λ | W/m.K | 0,036 | 0,043 | 0,050 | 0,059 | 0,069 | | | |
| Facing | - | - | Unfaced | | | Al-foil | | | - | - |
| Reaction to fire * | - | - | A1 | | | C _{L-s} , d ₀ | | | - | TS EN 13501-1 |
| Max. Service Temperature | - | °C | 250 | | | | | max. 250 | TS EN 14707 | |
| Water Absorption | - | kg/m ² | max. 1 | | | | | max. 1 | TS EN 13472 | |
| Package | - | - | PE Bag | | | | | - | - | |

| Diameter | | Pipe Thickness (mm) | | | | | | | | | | | | | | | |
|----------|-----|---------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
| inch | mm | 20 mm | | 25 mm | | 30 mm | | 40 mm | | 50 mm | | 60 mm | | 80 mm | | 100 mm | |
| | | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs | kg/m ³ | gr/pcs |
| 1/4 | 15 | 95 | 251 | 80 | 301 | 80 | 407 | 80 | 664 | 80 | 980 | 80 | 1357 | - | - | - | - |
| 1/2 | 21 | 90 | 288 | 75 | 336 | 75 | 445 | 75 | 707 | 75 | 1025 | 70 | 1306 | - | - | - | - |
| 3/4 | 27 | 90 | 326 | 75 | 375 | 75 | 492 | 75 | 769 | 75 | 1103 | 70 | 1393 | - | - | - | - |
| 1 | 33 | 80 | 332 | 75 | 424 | 75 | 551 | 75 | 848 | 70 | 1122 | 70 | 1504 | - | - | - | - |
| 1 1/4 | 42 | 80 | 383 | 75 | 484 | 70 | 582 | 70 | 881 | 70 | 1234 | 60 | 1405 | - | - | - | - |
| 1 1/2 | 48 | 80 | 419 | 75 | 527 | 70 | 629 | 70 | 945 | 70 | 1313 | 60 | 1487 | - | - | - | - |
| 2 | 60 | 80 | 492 | 75 | 612 | 70 | 725 | 60 | 919 | 60 | 1261 | 60 | 1649 | 60 | 2561 | - | - |
| 2 1/2 | 76 | - | - | 75 | 725 | 70 | 851 | 60 | 1064 | 60 | 1442 | 60 | 1866 | 60 | 2851 | 60 | 4015 |
| 3 | 89 | - | - | 75 | 817 | 70 | 954 | 60 | 1181 | 60 | 1589 | 60 | 2042 | 60 | 3085 | 60 | 4309 |
| 4 | 114 | - | - | 75 | 997 | 70 | 1156 | 60 | 1412 | 60 | 1877 | 60 | 2389 | 60 | 3547 | 60 | 4886 |
| 5 | 140 | - | - | 80 | 1247 | 80 | 1542 | 60 | 1632 | 60 | 2153 | 60 | 2720 | 60 | 3988 | 60 | 5438 |
| 6 | 169 | - | - | 80 | 1464 | 80 | 1801 | 60 | 1892 | 60 | 2478 | 60 | 3110 | 60 | 4508 | 60 | 6087 |
| 8 | 219 | - | - | - | - | 80 | 2253 | 70 | 2734 | 60 | 3042 | 60 | 3787 | 60 | 5411 | 60 | 7216 |
| 10 | 273 | - | - | - | - | 80 | 2741 | 70 | 3304 | 60 | 3653 | 60 | 4520 | 60 | 6388 | 60 | 8437 |
| 12 | 324 | - | - | - | - | 60 | 2402 | 60 | 3293 | 60 | 4230 | 60 | 5212 | 60 | 7307 | - | - |
| 14 | 356 | - | - | - | - | 60 | 2619 | 60 | 3583 | 60 | 4592 | 60 | 5485 | - | - | - | - |

* Non-combustible al-foil coated pipes are classified as A₂-s₁, d₀

Safety Reminders for Loading, Unloading, Shipping and Storing

- These operations should be done indoors in case of rainy weather conditions.
- Loading and unloading should be done by (at least) two people.
- Products should be put on top of each other with extra care.
- Only backshutter of the truck body should be opened during unloading.
- Unloading should be carried out from backside to the front.
- Products should be wrapped by a waterproof cover even if the shipping distance is short.
- During shipping maximum 8 boxes, during storing maximum 5 boxes should be superposed.
- Products should not be put into upright position during shipping and storing.
- Storing should be carried out on pallets.
- Boxes should be carried by their handles.
- Boxes should not be stepped on and should not be used as steps.
- Boxes should not be unloaded by pushing or throwing from the truck.

Izocam is not responsible for any problem because of misprinting. Izocam, the manufacturer, reserves the right to alter product specifications without prior notice. Izocam also manufactures special products upon request. For your requirements, you are requested to contact our Export Department.

