OWENS/CORNING FIBERGLAS

High Temperature Piping, 70 To 1800

application specification

SUGGESTED SPECIFICATION

Insulate all hot piping 70F to 1800F with____inch thick Fiberglas:

Fiberglas 25 Heavy Density Sectional	(450F)
Kaylo 10	(1200F)
Kaylo 20	(1800F)

pipe insulation having a factory applied:
Standard Canvas (Kaylo only)
Fiberglas 25 ASJ (Heavy Density Sectional only)
0.016 Smooth or Embossed Aluminum Jacket
0.010 Stainless Steel Jacket

RECOMMENDED APPLICATION

Piping

Apply insulation over clean dry surfaces, butting adjoining sections firmly together. Where canvas is furnished, adhere laps smoothly over all joints with lagging adhesive. On pipe sizes over 12" IPS, the insulation shall be wired in place with 16 gauge galvanized wire on 9" centers. Where factory applied metal jackets with Pittsburgh lock seams on longitudinal joints are provided, butt strips, containing weatherproof mastic and protective asbestos paper, secured in place with 0.015 inch thick by 5/8 inch wide stainless steel hands shall be installed at all butt joints. A single metal band only shall be applied at the mid-point of each section and secured with a wing seal.

NOTE: Where the operating temperature of the pipe exceeds 600F, double layer application shall be used. Under these conditions both the longitudinal and butt joints of the inner and outer layer shall be staggered.

Fittings

Insulate fittings with mitered segments or pre-molded insulation, wired in place, and made smooth with a thin coat of insulating cement.

PLAINTIFF'S EXHIBIT tabbies VN-001962

PLAINTIFF'S EXHIBIT tabbies 05882.00

FINISH

Indoor

Piping having Fiberglas 25 ASJ jackets, requires no additional finish. Where canvas is provided, apply a flood coat of Lagging Adhesive.*

Fittings

Shall be finished with a 1/4 inch to 1/2 inch coat of insulation cement*, troweled to a smooth surface. Allow to dry and apply 6 oz. canvas adhered in place with Lagging Adhesive.* Where Fiberglas 25 is used, refer to Fiberglas 25 ASJ Application sheet for proper application.

Piping

Insulations with factory applied metal jackets, installed as above, require no additional finish.

Outdoor

Where metal jackets are field applied, they shall be held in place with 5/8 inch wide and 0.015 inch thick stainless steel or galvanized bands on 12" centers. Jackets shall extend at least 2" on adjacent insulation at the butt joint and overlap at least 2" on the horizontal joint. The horizontal overlap shall be located in the 4 o'clock position in such a way as to shed water. Where metal jackets are to be field applied over calcium silicate, they shall have a moisture barrier on the side adjacent to the insulation. When waterproof jackets are field applied, they shall be held in place with 16 ga. copper wire at 9"o.c. Lap shall be oriented to shed water. Four inch (4") butt joint strips shall be applied over butt seams secured with two (2) wire ties.

Fittings

Over insulation cement apply a 1/8 inch thick wet coat of Outdoor Breather Mastic* reinforced with Glass Fabric.* Finish with a final 1/8 inch thick wet coat of Outdoor Breather Mastic.*

or

Apply pre-formed metal jackets, "humped ells", etc. over insulation. Metal jackets shall be secured with metal screws, pop-rivets or bands and shall extend over adjacent metal jackets. Overlaps to be caulked with weatherproof mastic.

CAUTION

Owens-Corning Fiberglas Insulations are to be applied only with approved adhesives, mastics and mechanical fastening devices as published in Accessory Materials List, Pub.No. 4-IN-3430. Owens-Corning Fiberglas accepts no responsibility or liability for the performance of materials other than those listed unless approved in writing by O-CF Testing Laboratories.

OWENS/CORNING FIBERGLAS

*Refer to Accessory Materials List for suggested maufacturers of mastics, adhesives & other accessory materials.

The above specification is general in nature. Application procedure is at the discretion and responsibility of the Design Engineer to meet specific job requirements.

OWENS-CORNING FIBERGLAS CORPORATION
Mechanical Products Division
Fiberglas Tower, Toledo, Ohio 43659

Pub. No. 3-IN-3463-D Litho U.S.A., July, 1972

OWENS/CORNING FIBERGLAS

High Temperature Piping, 70 To 1800

application specification

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Insulate all hot piping 70F to 1800F with____inch thick Fiberglas:

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Kaylo 10	(1200F)
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Standard Canvas (Kaylo only)
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0.016 Smooth or Embossed Aluminum Jacket
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RECOMMENDED APPLICATION

Piping

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NOTE: Where the operating temperature of the pipe exceeds 600F, double layer application shall be used. Under these conditions both the longitudinal and butt joints of the inner and outer layer shall be staggered.

Fittings

Insulate fittings with mitered segments or pre-molded insulation, wired in place, and made smooth with a thin coat of insulating cement.

FINISH

Indoor

Piping having Fiberglas 25 ASJ jackets, requires no additional finish. Where canvas is provided, apply a flood coat of Lagging Adhesive.*

Fittings

Shall be finished with a 1/4 inch to 1/2 inch coat of insulation cement*, troweled to a smooth surface. Allow to dry and apply 6 oz. canvas adhered in place with Lagging Adhesive.* Where Fiberglas 25 is used, refer to Fiberglas 25 ASJ Application sheet for proper application.

Piping

Insulations with factory applied metal jackets, installed as above, require no additional finish.

Outdoor

Where metal jackets are field applied, they shall be held in place with 5/8 inch wide and 0.015 inch thick stainless steel or galvanized bands on 12" centers. Jackets shall extend at least 2" on adjacent insulation at the butt joint and overlap at least 2" on the horizontal joint. The horizontal overlap shall be located in the 4 o'clock position in such a way as to shed water. Where metal jackets are to be field applied over calcium silicate, they shall have a moisture barrier on the side adjacent to the insulation. When waterproof jackets are field applied, they shall be held in place with 16 ga. copper wire at 9"o.c. Lap shall be oriented to shed water. Four inch (4") butt joint strips shall be applied over butt seams secured with two (2) wire ties.

Fittings

Over insulation cement apply a 1/8 inch thick wet coat of Outdoor Breather Mastic* reinforced with Glass Fabric.* Finish with a final 1/8 inch thick wet coat of Outdoor Breather Mastic.*

or

Apply pre-formed metal jackets, "humped ells", etc. over insulation. Metal jackets shall be secured with metal screws, pop-rivets or bands and shall extend over adjacent metal jackets. Overlaps to be caulked with weatherproof mastic.

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NOTE: Where the operating temperature of the pipe exceeds 600F, double layer application shall be used. Under these conditions both the longitudinal and butt joints of the inner and outer layer shall be staggered.

Fittings

Insulate fittings with mitered segments or pre-molded insulation, wired in place, and made smooth with a thin coat of insulating cement.

FINISH

Indoor

Piping having Fiberglas 25 ASJ jackets, requires no additional finish. Where canvas is provided, apply a flood coat of Lagging Adhesive.*

Fittings

Shall be finished with a 1/4 inch to 1/2 inch coat of insulation cement*, troweled to a smooth surface. Allow to dry and apply 6 oz. canvas adhered in place with Lagging Adhesive.* Where Fiberglas 25 is used, refer to Fiberglas 25 ASJ Application sheet for proper application.

Piping

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Fittings

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or

Apply pre-formed metal jackets, "humped ells", etc. over insulation. Metal jackets shall be secured with metal screws, pop-rivets or bands and shall extend over adjacent metal jackets. Overlaps to be caulked with weatherproof mastic.

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