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SECTION 4

PRODUCTS

4.1 PRODUCTS

The following listed manufacturers' products have been accepted by TIAC as suitable for application based on technical data available from the various manufacturers. The terminology used in this products listing is consistent with that used within the Application and Finishes parts of these standards. The following manufacturer lists contain acceptable materials in regular supply in most areas (see Provincial addenda). Unless specifically noted otherwise in the project specifications, the Contractor has the option of which one of the listed manufacturers' products to use on a project for the various applications and finishes specified. The specifier should verify these specifications before using.

A. PREFORMED PIPE INSULATION

1. Mineral Fiber for Low and Medium Temperature (with or without integral jacket)
 - Knauf Insulation
 - Manson Insulation Inc.
 - Owens Corning Canada Inc.
 - Fibrex Insulations Inc..
 - Roxul Inc.
 - Johns Manville
 - Industrial Insulation Group IIG-LLC
2. Calcium Silicate for High Temperature
 - Industrial Insulation Group IIG-LLC
3. Mineral Fiber for High Temperature
 - Fibrex Insulations Inc.
 - Roxul Inc.
 - Industrial Insulation Group IIG-LLC
4. Perlite for High Temperature
 - Industrial Insulation Group IIG-LLC
 - Temperlite
 - Howred Corp.

5. Cellular Glass
 - Pittsburgh Corning Corp.
 - Cell-U-Foam Corporation
6. Flexible Foam Elastomeric
 - Armstrong World Industries
 - Halstead Corp.
7. Closed Cell Polyisocyanurate
 - Dow Chemical Canada Inc.
8. Phenolic
 - Belform Insulation Ltd.

B. UNDERGROUND INSULATION (GRANULAR TYPE)

- Dri-Therm
- Gilsulate

C. DUCT AND PLENUM INSULATION

1. Rigid Mineral Fiber Board for Low and Medium Temperature (with or without vapour retarder)
 - Knauf Insulation
 - Manson Insulation Inc.
 - Ottawa Fibre Inc.
 - Owens Corning Canada Inc.
 - Fibrex Insulations Inc..
 - Roxul Inc.
 - Johns Manville
2. Flexible Mineral Fiber Blanket for Low and Medium Temperature (with or without vapour retarder)
 - Knauf Insulation
 - Manson Insulation Inc.
 - Ottawa Fibre Inc.
 - Owens Corning Canada Inc.

- Fibrex Insulations Inc..
- Roxul Inc.
- Johns Manville
- 3. Calcium Silicate for High Temperature
 - Industrial Insulation Group IIG-LLC
- 4. Mineral Fiber for High Temperature
 - Fibrex Insulations Inc...
 - Industrial Insulation Group IIG-LLC.
 - Roxul Inc.
- 5. Perlite for High Temperature
 - Industrial Insulation Group IIG-LLC
 - Temperlite
 - Howred Corp.
- 6. Cellular Glass
 - Pittsburgh Corning Corp.
 - Cell-U-Foam Corporation
- 7. Flexible Elastomeric Foam
 - Armstrong World Industries
 - Halstead Corp.
- 8. Closed Cell Polyisocyanurate
 - Dow Chemical Canada Inc.
- 9. Phenolic
 - Belform Insulations Ltd.
- D. MINERAL FIBER DUCT LINER FOR INTERNAL APPLICATIONS**
 - Knauf Insulation
 - Manson Insulation Inc.
 - Owens Corning Canada Inc.
 - Industrial Insulation Group IIG-LLC

E. FINISH JACKETS

1. Multi-Purpose
 - Alpha and Associates
 - Claremont
 - Lamotite
 - Compac Corp.
2. Treated Jacket
 - Alpha and Associates
 - Claremont
 - Fattal Thermocanvas
3. PVC Jacket and Fitting Covers
 - Ceel-Co
 - Belform Insulation Ltd.
 - Proto Corp.
 - Sure-Fit System
 - Speedline
 - Thermo-Cover Inc.
 - Zeston
4. Aluminum and Stainless Steel Jacketing and Fitting Covers
 - Aluminum materials must be furnished from aluminum with alloys conforming to ASTM B-209 designation.
 - Stainless Steel materials must be type 304 or Type 316 stainless steel conforming to ASTM A-240.
5. Vapour Retarder facing adhesive; Insulation and Fabric Coatings; FittingMastic; Fabric Adhesive; Mastic Coating
 - Bakor
 - Specialty Construction Brands Inc. (Fosters/Childers)
 - Epolux
 - Nacan

F. ACCESSORIES

1. Tapes

- Avery Dennison
- Compac Corp.
- Ideal Tape
- MACtac Canada Ltd.
- Venture Tape Corp.
- Dow Chemical Canada Inc.

2. Weld Pins, Studs and Clips

- AGM
- Continental Studwelding
- Midwest Fastners Inc.

3. Insulating Cements

- PK Insulation
- Industrial Insulation Group IIG-LLC

4. Vapour Retarder Film

- Dow Chemical Canada Inc.

5. Removable/Reusable Covers **Other Companies**

- Albrico Services (1982) Ltd. **to be listed on**
- - Connelly Insulation Services
- Crosby Insulation Inc.
- Dewar Insulations Ltd.
- Ener Guard Protective Coverings Inc.
- Firwin Corporation - Guildfords Ltd.
- Heat Saver Covers Ltd. - Inscan Contractors Ltd.
- Isolation Generales A.P.T. Inc. - Interprovincial Insulation Inc.
- Isolation Industrielle Quebec - Knauf Fiber Glass
- LGF Mechanical Insulations - Pro-Tec-T-Kotes

- RRC Insulation - Sarnia Insulation Supply (1985) Ltd.
- Scotia Insulation Sales Limited - Thermo-Cover Inc.
- Thermal Energy Conservation Inc. - Thermal Systems

NOTE 1: The National Building Code 1995 does not permit the use of foamed plastic insulation when used for insulating an air duct. Foamed plastic insulation may be used in ceiling spaces that act as a return air plenum provided the insulation is protected from exposure to the plenum in accordance with NBC 1995, Subsection on Combustible Insulation and its Protection. The specifying authority is responsible for ensuring such protection is provided if applicable to a project, and specify accordingly in the project specifications.

NOTE 2: The National Building Code 1995 requires that in buildings of non-combustible construction, foamed plastic insulation classified as "combustible" insulation on piping located in horizontal or vertical service spaces or in rooms or spaces other than service spaces must be suitably protected from fire exposure and requires a covering with a flame spread of 25 or less in service spaces and a rating not more than that required for interior finish for the ceiling in rooms or spaces, other than service spaces. The specifying authority is responsible for ensuring such protection is provided, if applicable to a project, and specify accordingly in the project specifications. The use of foamed plastic insulation is also limited by NBC 1995 requirements for Smoke Developed Classifications. The specifier must determine such limitations for each project and specify accordingly. * Flame Spread and Smoke Developed Classification is based on 25mm thickness.

NOTE 3: The use of PVC jacket or fitting covers is limited by the 1995 National Building Code requirements for Smoke Developed Classification. The specifier must determine such limitations for each particular project and specify according.

NOTE 4: Materials shall be handled as recommended by the various manufacturers.