PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install faced thermal and acoustic batt insulation as described in Contract Documents.
   2. Quality of insulation used in speaker enclosures.

B. Related Sections:
   1. Section 06 2221: Furnishing and installing insulation in speaker enclosures.
   2. Section 06 2024: Furnishing and installing of insulation in hollow metal frames.

1.2 REFERENCES

A. American Society For Testing And Materials:
   1. ASTM C 665-01, 'Standard Specification for Mineral-Fiber Thermal Insulation For Light Frame Construction and Manufactured Housing.'

PART 2 - PRODUCTS

2.1 MATERIALS

A. Thermal And Acoustic Insulation:
   1. Faced Insulation:
      a. Kraft faced meeting requirements of ASTM C 665, Type II, Class C.
      b. Foil faced meeting requirements of ASTM C 665, Type III.
         1) Class B: Enclosed insulation.
         2) Class A: Exposed insulation.
   2. Unfaced Insulation: Meet requirements of ASTM C 665, Type I.
   3. Order insulation by 'R' factor rather than 'U' factor, rating, or thickness, either 16 or 24 inches 400 or 600 mm wide according to framing spacing.
   4. 'R' Factor Required:
      a. SCL Wall Framing:
         R26 7-1/4 inches deep  181 mm deep
         R32 9-1/4 inches deep  235 mm deep
         R38 11-1/4 inches deep  286 mm deep
      b. Wood or Metal Wall Stud Framing:
         R11 3-1/2 inches deep  89 mm deep
         R19 5-1/2 inches deep  140 mm deep
         R26 7-1/2 inches deep  191 mm deep
      c. Acoustically Insulated Ceilings: R38 Cathedral.
      d. Thermally Insulated Ceilings / Roof:
         1) R38 Cathedral: At 2x12 Overbuild Framing.
         2) R38 Standard: All Other.
      e. Framed Speaker Enclosures: R11.
   5. Type One Acceptable Manufacturers:
2.2 SOURCE QUALITY CONTROL

A. Insulation shall be manufactured to be in compliance with IBC or other applicable building codes.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:
   1. Leave no gaps in insulation envelope.
   2. If two layers of insulation are used to attain required ‘R’ factor, only layer towards interior of building shall have facing.
   3. Do not cover recessed light fixtures with insulation. Cut out insulation to provide 6 inch 150 mm minimum clearance around recessed lighting fixtures.

B. In Framing:
   1. Install insulation behind plumbing and wiring, around duct and vent line penetrations, and in similar places.
   2. Fit ends of batts snug against top and bottom plates.
   3. Where insulation is not enclosed by structure or drywall, support in place with wire or other suitable material and use only foil-faced insulation.
   4. Install baffles between trusses and rafters at ventilation spaces if necessary to prevent insulation from blocking airflow from soffit.

END OF SECTION