DANFOSS LX CONSTANT WATTAGE HEATING MAT SPECIFICATION FOR INDOOR FLOOR WARMING

1. GENERAL

Supply and install a complete system comprised of heating cables, accessories, and controls.

2. MATERIAL

2.1. Shall be Danfoss LX twin conductor heating cable.

2.2. Mat with strong dual self-adhesive backing (flexible thermoplastic polymer coated fibreglass).

2.3. The mat is rated to produce 12 W/ft^2 at 120V or 240V.

2.4. Shall include 10' cold lead, single point connection.

2.5. Conductor: Copper or copper alloy, with tin-nickel coating.

2.6. Insulation: DuPont FEP insulation with an average thickness not less than 0.35mm.

2.7. Shield: Tin-coated drain wire combined with 0.050 mm aluminium foil coated with 0.012 mm PBT, 100% coverage.

2.8. Jacket: PVDF with an average thickness not less than 0.25mm.

2.9. Shall operate on line voltage of (select: 120V, 208-240V).

2.10. Shall be approved to applicable UL and CSA standards.

3. SYSTEM CONTROLS

3.1. The system temperature shall be controlled by a Danfoss thermostat with a floor or air sensor, or a combination of both.

3.2. The thermostat shall incorporate an integral 5mA Class A Ground Fault Circuit Interrupter (GFCI), a temperature set-back option to reduce energy consumption, and a digital readout.

3.3. Shall be approved to applicable UL and CSA standards.

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4. EXECUTION

4.1. Installation

a. System must be installed per manufacturer's recommendation using the method described in the installation guide.

b. Place the heating mats and sensors in the surface material as per the installation guide.

c. Inspect the cable and controls upon receiving the shipment. Note any damage and ensure materials received match the order and shipping documents.

4.2. Tests

a. Refer to the manufacturer's literature for requirements for testing and documenting cable resistance and insulation-to-ground readings.

b. Take tests as outlined in the Installation Manual.

c. If problems are discovered, consult the manufacturer.

d. If unable to correct problems notify the engineer before proceeding with the installation.

e. Keep a record of all readings for inspection by the engineer or for submittal to the manufacturer to ensure a valid warranty.

5. WARRANTY

5.1. Manufacturer shall offer a 10-year, non-prorated warranty.