



MATERIAL SPECIFICATION FOR EXTRUDED EXPANDED POLYSTYRENE PAVEMENT INSULATION

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1605.01 SCOPE

This specification covers extruded expanded polystyrene for use as pavement insulation for frost heave treatment of pavements.

1605.02 REFERENCES

This specification refers to the following standards, specifications, or publications:

Underwriters Laboratories of Canada (ULC)

CAN/ULC S701-11 Thermal Insulation, Polystyrene, Boards and Pipe Covering

1605.03 DEFINITIONS

For the purpose of this specification, the following definitions apply:

Extruded Expanded Polystyrene Pavement Insulation means insulation in the form of rigid boards made by extrusion of expanded polystyrene beads.

Production Lot means the quantity of insulation boards produced in a continuous period of manufacturing the same grade and thickness of product within the same production day.

Truckload means a truck, including trailer, loaded with rigid insulation boards.

1605.05 MATERIALS

The extruded expanded polystyrene boards shall be according to the requirements of CAN/ULC S701, Type 4, with the exception of the compressive strength.

The minimum compressive strength for each grade shall be according to Table 1.

1605.07 PRODUCTION

Each board of the same production lot shall be stamped with the same production code showing plant identification, type, grade, and date of production (i.e., yyyy-mm-dd).

1605.08 QUALITY ASSURANCE

1605.08.01 Certificate of Compliance

Test certificates for each production lot supplied showing compliance with all requirements of this specification shall be obtained by the Contractor and submitted to the Contract Administrator prior to installation.

1605.08.02 Sampling

One board from each production lot on each truckload shall be selected at random by the Contract Administrator when the material arrives at the job site. The samples shall be tested by a laboratory designated by the Owner for compliance with this specification.

1605.08.03 Testing

All test procedures shall be according to CAN/ULC S701.

The compressive strength shall be the average of 5 specimens taken at different places across the width of the board and determined on the face perpendicular to the extrusion plane.

1605.08.04 Acceptance or Rejection

Failure of any one of the sample boards to comply with any requirement of this specification shall be cause for rejection of the production lot from which it was taken. Culling of the rejected material by the Contractor shall be permitted and a proposal for retesting the remaining material shall be submitted to the Contract Administrator to demonstrate conformance with the specification. Retesting of material remaining from culling rejected material shall be at no cost to the Owner.

TABLE 1
Minimum Compressive Strength

Grade	Minimum Compressive Strength, kPa at 5% Deflection or Yield
A	275
B	400
C	690