

ITEM 11599.29 M - ELECTRIC PANEL HOUSE

DESCRIPTION

The work shall consist of furnishing, placing, erecting and installing complete electric panel house as indicated on the plans and in accordance with the specifications.

MATERIALS

Materials shall meet the material requirements of the following sections, subsections and as noted herein or on the contract plans.

Premolded Resilient Joint Filler	705-07
Caulking Compound For Structures	705-04
Footing concrete class A	555.0104 M.
Concrete for structures, class A	555.0105 M.
Uncoated bar reinforcement for concrete structures	556.0201 M.
Frost proof exterior wall tile and setting bed	11560.91 M.
Structural steel, type 1	564.0501
Cement mortar pads	568.32 M
Shop applied structural steel paint system	572.010001 M

Steel Deck shall conform to the material requirements of 715-01, structural steel, with the following modifications and additions. Steel roof deck shall be manufactured from steel conforming to ASTM designation A446, grades A, B, C, D, E, or F. Steel roof deck shall possess a minimum yield stress of 227Mpa. The thickness of steel roof deck before coating shall be 1.2mm for type 18. The rib profile shall be in accordance with the Steel Deck Institute Design Manual for Floor Decks and Roof Decks for the type shown in the contract plans. Steel roof deck shall be galvanized coated conforming to the requirements of ASTM A525, class G90.

Rigid Board Tapered Roof Insulation shall be composed of closed cell polyisocyanurate foam core bonded to universal fiber glass reinforced facer. Minimum thickness at roof drain shall be 38mm. R-value at minimum thickness shall be $1.76 \text{ m}^2\text{C/W}$. Product shall be UL approved for Class A roof construction and meet ASTM C 2189. Use fasteners provided by and in accordance with roof board manufacturer. Typical physical properties shall meet the following.

PROPERTY	VALUE	ASTM #
Water absorption, % by volume- 2 hrs	1.0 max.	C 209
Dimensional Stability Change, 7 days @ 70 C, 95% RH	2% max.	D 2126
Compression resistance, 10% consolidation, kPa	138 nom.	D 1621
Moisture vapor transmission, ng/Pa*s*m ²	57.5 max.	DE 96
Flame spread	25 max.	E 84

Roof membrane shall be single ply 1.5-mm thick EPDM system possessing the following properties. Use fasteners provided by and in accordance with roof membrane manufacturer.

PROPERTY	VALUE	ASTM #
Specific gravity	1.15	D 297
Tensile strength, Mpa	9 min.	D 412, C

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CONSTRUCTION DETAILS

Contractor shall submit vendors catalog cuts and shop drawings of all components, assemblies and systems called for and shown including product specifications, installation details and dimensions of work to be performed. Submittal to include associated appurtenances for a complete and functional building.

METHOD OF MEASUREMENT

The quantity to be paid for electric panel house shall be lump sum.

BASIS OF PAYMENT

The lump sum price bid, shall include the cost of furnishing all labor, materials and equipment necessary to complete the work as indicated herein, as shown on the contract plans and in accordance with the Standard Specifications.

<u>ITEM No.</u>	<u>ITEM</u>	<u>PAY UNIT</u>
11599.29 M	Electric Panel House	Lump Sum