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SPECIFICATIONS

NAVAJO C-CHANNEL

DESCRIPTION: Navajo shelters, which feature a hip roof, are designed and constructed with an all steel structure for minimum maintenance and long life in any climate. Prefabrication allows fast, easy erection over a concrete slab.

ROOF: (standard) Roll formed structural roof panels: 24" wide, W-shaped 2 1/2" deep ribs on 8" centers, watertight snap-lock connection available in high strength embossed 3105 H154 aluminum or optionally Galvalume® steel ASTM A792 Grade 50. Galvalume steel roofs are standard with "Energy Star specs for cool roofs" reflective coating to reflect heat away from the shelter on hot summer days, reduce smog, and increase the lifetime of the roof due to less expansion and contraction.

(optional) 18" 24 ga. Standing seam roof. This is not a structural roof panel and requires additional supports. Meets "Energy Star specs for cool roofs" reflective coating to reflect heat away from the shelter on hot summer days, reduce smog, and increase the lifetime of the roof due to less expansion and contraction.

(optional) Wood. Tongue and groove decking will be Southern Yellow Pine or Western Red Cedar #1 Grade or better, kiln dried, 2" x 6" nominal dimension 5 3/8" x 1 1/2" actual finished dimension with 14/32" tongue and 1/2" groove. To be covered with standard roofing materials. Facia is the same as the decking.

(optional) 8" flush panel, 2 5/8" deep interlocking watertight connection, smooth finish, 3105 H154 aluminum.

(optional) 3" structural insulated panel, .030 x 3105-H14/25 stucco embossed aluminum top and bottom or oriented strand board top for application of standard roofing materials and aluminum bottom bonded to a oriented 1# density expanded polystyrene is 1.1966 lb per square foot. Drip edge facia trim made from 6063-t6 aluminum extrusion 4" H.

(optional) round lattice is 2.975" outside diameter extruded aluminum tube .055" thick normally spaced 6" apart.

FACIA: (standard except for wood roof and lattice) Aluminum alloy 6063 T5 or 6105 T5 extruded gutter, trim facia, and ridge cap is included.

FASTENERS: (standard) #8-18 x 3/4" #2 Tek 410SS and #12 x 3/4" #3 Tek zinc plated Hex washer head screws are included for fastening fascia and roof panels.

FINISH: (standard) Steel structure will be cleaned after all welding and fabrication is completed by shot blasting to white metal, sprayed with an alkaline cleaner/phosphatizer, rinsed with ambient water, and a final rinse with a chemical sealer. Anti-graffiti finish is a polyurethane-based powder coating 3-6 mils thick that is cured at 400°F until fused into a smooth coating. The surface is made outstanding by the following qualities: Easy to clean, highly resistant to weather

and corrosion, smooth flow, powder coat finish, glossy surface. This permanent protection system has been designed to withstand numerous clean-ups and its appearance will be virtually unaltered, even after repeated clean-ups, though a slight reduction in the degree of gloss is possible. Inscriptions applied with marking pens will disappear completely.

(Option for corrosive atmospheres) The above anti-graffiti finish applied over zinc rich primer 2-3 mils thick. The zinc rich primer will allow structure to withstand up to bad environments without rusting problems. This premium finish has proven to be virtually rust free after 1000's of hours in a salt fog chamber. The zinc primer stops rust from spreading under the finish when scratches or dings occur.

(Option for areas of extreme corrosive atmosphere) Hot dip galvanizing. The steel structure is hot dip galvanized according to ASTM A 123-Zinc Coatings on Iron and Steel Products. Fabricated components are completely immersed in a bath of 98% pure molten zinc at approximately 850°F long enough to reach bath temperature. Standard powder coating is then applied.

STRUCTURE: Steel conforms to ASTM A36 or equivalent specifications with a minimum 36,000 PSI yield strength and 58,000 PSI tensile strength.

Posts & Rafters: Manufactured from 11 gauge steel, posts and rafters are die formed in a tapered (10 1/2" to 4 1/2") box design 3 1/2" wide. Surface mounting is standard. Optional: in-ground mount is available

Purlins: ASTM A500 steel tube with factory welded end brackets.

Plates, Braces, Brackets, and Blocks: Used in various areas of the shelter these components are manufactured from 1/4" steel. (ASTM A36)

Tubing: Used as a ridge member on extended shelter models, the structural steel tubing measures 3"x5"x3/16" and conforms to ASTM A500 specifications.

Fasteners: Steel 1/2"x1 3/4" or 1/2"x4 1/2" bolts are supplied for shelters. Bolts, nuts and washers are hot dipped-galvanized and conform to ASTM A307.

INSTRUCTIONS: Complete detailed installation instructions and assembly drawings are supplied with each shelter.

SHIPPING

& INSTALLATION: Shelters are pre-drilled for easy installation. The structural frame is fully fabricated to eliminate the need for drilling, cutting, or welding on site. The structure is placed on a wood skid and secured and protected by shrink wrapping. Panels and trim are packaged to prevent damage.