

YURT COMMERCIAL SPECIFICATIONS

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Yurt Commercial Specifications

DOORS AND DOORJAMBS

Solid, clear, vertical grain Douglas fir door and jambs. Standard equipment includes an aluminum threshold. Door is 36" wide and 6'-8" tall. All doors meet ADA specifications for accessibility.



CABLE

3/16" diameter galvanized aircraft cable, break strength 4200 lbs, encased in a vinyl covering. A continuous loop, precut to the exact yurt circumference is provided. Cable ends are attached with a 2-ton alloy eye-hook and aluminum ferrules.



LATTICE WALL

Clear, vertical grain Douglas fir, 1/2" x 1.5", fastened at one-foot intervals with aluminum pull rivets and stainless steel back-up washers. Fully expanded wall heights are 7'-2".



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SPECIFICATION:

PHOTO

ROOF FABRIC

- **Standard:** ProStructure 18.5oz. per square yard PVC coated high tenacity polyester with clear acrylic top-coat. UV and mildew resistant, flame retardant to meet California State Fire Marshall CPAI-84 and NFPA-701. Cold crack rating: -45 degrees F. Available in tan, gray or white.
- **Upgrade:** Duro-Last, 15 year manufacturer's warranty. 40 mil (37oz. per square yard) proprietary polymer. Available in tan, gray or white.



ROOF CONSTRUCTION

Watertight, thermally-welded main seams. Nine rolled-rim brass grommets at the top to attach to compression ring. Bottom perimeter of roof and valance reinforced with 2" polyester webbing for dimensional stability and strength. Includes #3 rolled-rim brass grommets for lacing wall to roof, valance and inner valance; webbing reinforced door cutout in valance with standard rain diverter thermally welded to roof above each door. Top cover secures to door header and jamb with eleven #8 x 1" stainless steel self drilling, self tapping screws.



WALL FABRIC

Three Standard Choices:

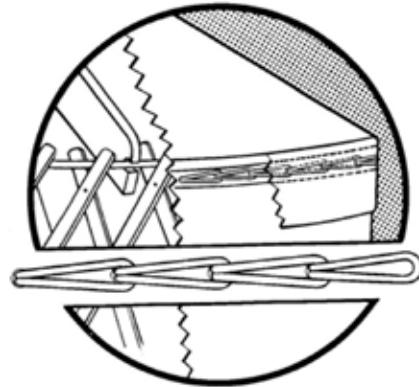
- ProTech, a three layer vinyl laminate with excellent UV and mildew resistance. 15 ounce psy, tensile strength: 220 lbs x 220 lbs. Main seams are thermally welded. ProTech is RECOMMENDED FOR COMMERCIAL USE, because it can be solvent welded for easy on-site repairs. 20 color choices.
- TuffStar, a 15 ounce cotton/polyester blend with acrylic top coat. Tensile strength: 283 lbs x 214 lbs. Sewn construction. 4 color choices
- ProStar, 12.5 oz 100% polyester with resin top coat. Tensile Strength 460 lbs x 350 lbs. Sewn construction. 4 color choices



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WALL CONSTRUCTION

Top and bottom reinforced with 2" polyester webbing, 3/16" polyester cord loops, sewn one-foot on center through the top webbing, corresponding to grommets in the roof, lace wall to roof for and integrated yurt covering. Rolled rim grommets, fifteen inches on center through the bottom webbing accept #14 x 1-1/4" stainless washer head sheet metal screws. Each yurt wall includes a minimum of three windows. Additional windows available.



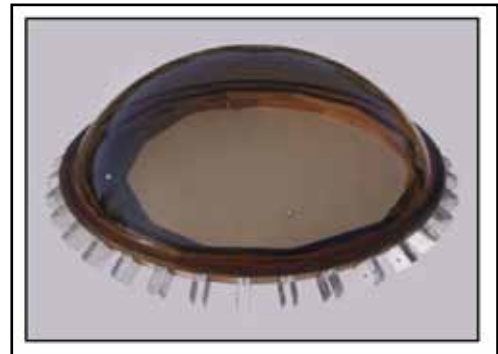
WINDOW CONSTRUCTION

Sewn-in 20 x 30 weave fiberglass netting is either 44" x 44" or 50" x 30". 20-mil clear vinyl (UV resistant, flame retardant, -15 degree F cold crack), framed in 2" polyester webbing and 2" UV resistant polyester Velcro, can be completely removed and stored. Weather/privacy flap is fully zippered (#10 YKK), rolls up and stores with 1" side-release fasteners. A nylon rod sewn into a pocket stiffens the weather flap for easy roll-up.



DOM SKYLIGHT

Five-foot diameter, 15" dome height, 1/4" pure acrylic includes a 2" diameter flange and 1/2" perimeter turn down. Dome fastens to ring with 6 stainless steel expansion springs and four detachable stainless steel safety cables.



RAFTERS

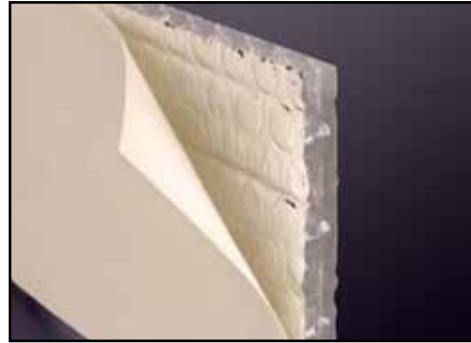
Select 2" x 4" or optional select 2" x 6". All rafters are machine stress rated to a bending strength of 2100 lbs per square inch. Rafters are molded with a 1/4" round-over and notched to fit over the main cable. A brass insert is embedded in each rafter to accept a 3/8" - 16 slotted bolt which closes off the cable notch and prevents the rafter from detaching from the cable.



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INSULATION (OPTIONAL)

Astro-foil: a double layer of air-bubble insulation sandwiched between two layers of aluminum sheathing. R-values (based on direction of heat flow): downward, R15; horizontal, R7.31; upward, R5.4. Astro-foil has reflective and vapor barrier characteristics for increased heat retention. Insulation is upholstered with white polyester lining fabric (Tex-TEX).



WOOD FINISH

All wood frame components finished with Cedar Superdeck stain made by Duckback



LATTICE WALL TO DECK

Galvanized steel "L" bracket, 5" x 3" x 1.5" on 24" centers. Attaches to deck with two 1/4" x 1" plated lag screws; bolts to lattice wall with one 1/4" x 1.5" machine screw and nylock nut.



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ROOF TO COMPRESSION RING

#8 x 1" stainless steel self drilling, self tapping through rolled rim brass grommets, 19.5" on center.

ROOF TO DOOR HEADER AND JAMB

Top cover secures to door header and jamb with eleven #8 x 1" stainless steel, self drilling, self tapping screws.



FABRIC WALL TO DOOR JAMB

3/8" diameter rope bead sewn into wall, slides into an aluminum track. Flange of the aluminum track screws to the door jamb with #8 x 1" sheet metal screws, 24" on center.



LATTICE WALL TO DOOR

5/16" x 5" plated carriage bolt with wing nut and protective nylon acorn nut sandwich lattice wall between door jamb (2" x 6") and back-up board (1" x 4")



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OTHER OPTIONS

SNOW AND WIND LOAD ELEMENTS

CORR Brackets: Compression Ring to Rafter attaching bracket. U-shaped beam pocket screws to compression ring with two #10 x 2.5" plated hex head sheet metal screws.

2" x 6" Snow Load Rafters: See Framework above.

2" x 4" Columnar Support (studs): Wind load studs under every rafter. Attach each side of rafter with 3.25" x 11" truss plates and #8 x 1" sheet metal screws; and to yurt deck with 1.5" x 1.5" x 3" angle brackets and 1/4" x 1" lag screws.

OTHER OPTIONS

Door Awning: Pro Tech fabric awning zips to roof and projects above door on 1" galvanized pipe frame.

Window Awning: Converts window flap to fully adjustable, full awning with 1" steel tubing support and projection arms.

Dome Skylight Opener: Single spindle skylight opener operates from floor level with winding brace. Spindle attaches to dome and compression ring with "Z" bracket and watertight bolts.

Screen Door: Full 36" wide, heavy duty screen door. 2" x 6" clear, vertical grain Douglas fir with 20 x 30 fiberglass screen, steel strap hinges and single lever handle, spring loaded closure.

Operable Windows:

- Sierra Pacific 30" x 42" thermal pane casement window; clear vertical grain Douglas fir with tan aluminum cladding. Window is pre-installed in a CVG Douglas fir, floor-to-ceiling framework with oil finish. Cedar exterior trim, furniture-quality joinery. Meets International Building Code (IBC) requirements for egress.
- Curved Wood Frame Windows – Vinyl clad slider window, set in a curved wood frame to conform to the wall of the yurt. Horizontal slider windows, aluminum structure with vinyl cladding; 48" x 40". Pre-installed in CVG Douglas fir, floor-to-ceiling framework with oil finish. Cedar exterior trim, furniture-quality joinery.



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