

**General Construction Specifications**  
*8 Unit, 12' x 56' (Skid) 44 Bed Dormitory*  
for  
**Alta-Fab Structures Ltd.**

May 2014

**General Information:**

Client's Responsibility Permits	It is the <i>Client's</i> sole responsibility to read, understand, and/or question any and all aspects of this specification. It is the <i>Client's</i> sole responsibility to apply, and pay for any and all development, and building permits required by the local jurisdiction having authority.
Warranty	The unit (s) is <i>Warranted</i> for a period of One (1) year, from the date of manufacture against all workmanship, and materials.
Code Compliance	Alberta Building Code 2006, Part 10

**Skid:**

Main Members :	2 - WF12 @ 26 lb./ft. steel beams.
End Members :	7" dia. structural steel pipe c/w winch caps.
Cross Members :	5" dia. structural steel pipe @ 7'- 6" o.c.
Bumper Spacer :	3.5" x 3.5" square tubing.
Painting :	"Black" self primer semi gloss paint.

**Floor Structure:**

(exterior to interior)

Undercoating :	The undersheathing is to be coated with one coat latex enamel paint (Black).
Undersheathing :	1/2" Spruce plywood, glued & stapled.
Floor Joists :	2 x 10 Spruce @ 16" o.c. c/w double header plates.
Insulation :	R-20 Fiberglass batt insulation and 16"d (R-12) around perimeter of each individual unit.
Sub - floor :	One layer of 5/8" select Fir T & G plywood, glued & screwed to one layer of 5/8" standard Fir square edge plywood.
Carpet :	28 oz. jute backed commercial grade carpeting c/w 100% adhesive coverage (Bedrooms).
Linoleum :	Commercial 2.0 mm polyurethane reinforced, low maintenance vinyl flooring c/w heat welded rope seams as required (Wash. / Furn. / Mech. / Laundry / Mudroom / Storage).

**Exterior Walls:**

(exterior to interior)

Metal Cladding :	Prefinished G90 hot dipped galvanized, 26 ga. steel cladding.
Color Scheme :	"Dark Red" starter / "Charcoal" lower body / "Black" mid band / "Stone Grey" upper body / "Black" upper trim / "Dark Red" fascia.
Air/Water Barrier :	"Tyvek" or equal building paper wrap around to the exterior side of each individual unit.
Exterior Sheathing :	3/8" Spruce plywood, glued & stapled.
Wall studs :	2 x 6 Spruce studs @ 16" o.c. camp perimeter only, 2 x 4 for the remainder.
Insulation 1 :	R-20 Fiberglass batt insulation.
Insulation 2 :	R-12 "Roxul" Safe-N-Sound batt insulation (Hallway side).
Vapor Barrier :	6 mil Polyethylene vapor barrier.
Interior Sheathing :	3/8" Spruce plywood backing.
Interior Finish 1 :	1/2" Vinyl clad type "X" gypsum board.
Interior Finish 2 :	"Vipco - Constance Blush", 5/8" Vinyl clad type "X" gypsum board.
Interior Finish 3 :	5/8" "Bare" type "X" gypsum board (behind laundry tub and janitor sink). Note: 5/8" "Bare" type "X" gypsum board (Hallway side).

**Interior Walls:**

Interior Finish :	Matched as above.
Partition Studs :	- 1/2" Vinyl clad type "X" gypsum board. - 2 x 4 Spruce studs @ 16" o.c. - R-12 Fiberglass batt insulation. - "Roxul" Safe-N-Sound batt insulation (noise reduction) @ "Party" walls. - 1/2" Vinyl clad type "X" gypsum board 1/2 sheet of 1/8" Kemply board, fully adhered with contact cement to Bare 1/2" type "X" gypsum board behind the laundry tub and janitor sink. Note: 5/8" Vinyl clad type "X" gypsum board (Furnace & HWH rooms).

**Roof Structure:**

(exterior to interior)

Ceiling Height :	8' - 0 1/4" from top of floor to underside of ceiling.
Roofing :	.045" reinforced EPDM rubber roofing system, one piece 100% adhered to roof decking (Black).
Drainage :	Continuous aluminum drip channel.
Sheathing :	5/8" Fir T & G select plywood, glued and screwed to the roof joists.
Roof Joist :	2 x 10 Spruce @ 16" o.c. sloped to 2 x 8.
Insulation :	R-32 --- R-24 Fiberglass batt insulation.
Vapor Barrier :	6 mil Polyethylene vapor barrier.
Backing :	3/8" Spruce plywood backing stapled.
Ceiling Finish :	1/2" Vinyl clad type "X" gypsum board glued to the roof backing and joists.

### Hallway Floor (exterior to interior):

- 3/8" Spruce plywood undersheathing, glued and screwed, painted "Black".
- 2 x 4 Spruce floor studs @ 16" o.c.
- R-12 "Roxul" Safe-N-Sound batt insulation
- 5/8" standard Fir plywood, glued and screwed.
- 28 oz. jute backed, commercial grade carpet (installed on site).

### Hallway Roof (exterior to interior):

- .045" EPDM rubber roofing system (Black).
- 5/8" standard Fir plywood sheathing, glued and screwed.
- 2 x 6 Spruce studs @ 16" o.c.
- R-20 Fiberglass batt insulation.
- 1/2" Spruce plywood sheathing, glued and screwed
- 26 ga. "Bone White" prefinished metal cladding.

### Doors & Windows:

(sizes & locations as shown on the floor plan)

- Doors (exterior) : "Alta-Fab Structures Ltd." custom insulated metal door c/w steel frames, lite, commercial grade panic hardware and automatic door closure.
- Doors (hallway) : "WSI" painted 45 min. rated steel door c/w adjustable steel jamb, commercial grade doorset and automatic door closure.
- Doors (interior) : "WSI" painted 20 min. rated masonite solid core door c/w adjustable steel jamb, commercial grade doorset.
- Windows : "North Star" 48" x 40" residential, vinyl, triple glazed, slider c/w screen and lock.
- Venetian Blinds : Matching metal venetian blind.

### Mechanical Section:

- Heating : "Intertherm" M1MB-070 (57,000 BTU) gas fired, downflow furnaces c/w in-floor supply ducts, registers and electronic igniters.
- Return Air : 500 watt baseboard heater in each bedroom c/w wall mounted thermostat.
- Air Conditioning : All required return air is to be via galvanized steel ducting c/w fire dampers and grills.
- Water Supply : "Intertherm" 2.0 ton central air conditioning system c/w A/C lines for final hook-up and charge on site by **Others**.
- DWV : "Pex" pipe c/w copper fittings & pipe, concealed wherever possible.
- Gas : ABS plastic fittings & pipe, concealed wherever possible.
- Fixtures: (Qty's as per layout)

- 40 gal. gas fired hot water heater (Sleepers).
- 80 gal. gas fired hot water heater (Laundry).
- low usage water closet.
- lavatory sink c/w 4" deckset.
- 36" x 36" fiberglass shower c/w shower curtain.
- 24" x 24" janitor sink c/w hot/cold taps and "Y" hose.
- 22" x 22" plastic laundry sink c/w hot/cold taps and "Y" hose.
- "Knight" [CK1002-6] 100-2, single valve fire hose cabinet.

**Note: All GAS supply is the responsibility of the client.**

### Electrical Section:

- MDP (Main) : 30/60 cct, 225 amp, 120/208 volt, 3 phase panel c/w 200 Amp Main and 2 1/2" dia. conduit stubbed-out.
- SDP (Subs) : 1 - 24/48 cct. 100 amp, 3 phase panel and 7 - 24/48 cct. 30 amp, 3 phase panel.
- Int. Lighting : Surface mount 2 x 32 watt fluorescent., 60/100 watt incandescent globes, 100 watt "WP" ceiling light fixture.
- Ext. Lighting : 70 watt "High Pressure Sodium" light fixture c/w photocell.
- Receptacles : Duplex electrical receptacles as required by design and / or code
- Switches : Switching devices as required by design and / or code.
- Fire Alarm : Rated for Alberta and British Columbia code requirements.

### Furnishings / Cabinets (Qty as per layout):

- All cabinets are custom-manufactured for a quality fit and finishing.
- 39" x 80" bedframe c/w pillowtop mattress & headboard.
- 36" x 24" x 75"h clothes closet.
- 39" x 24" night table c/w drawer and gable support.
- Vinyl covered sled base chair.
- 21" x 22" angled satellite / TV shelf.
- 30" x 21 1/2" vanity top c/w 4" backsplash, 6"h skirt.
- 4 - hook, coat hook board.
- 24" x 24" bulletin board.
- Chrome toilet paper holder.
- Chrome towel bar.
- Soap / toothbrush holder.
- Metal garbage can.
- Recessed medicine cabinet c/w mirrored door.
- Plastic boot mat.
- Upper cabinets in the Laundry room.
- Hat shelf c/w boot rack with slide-out pan below.
- Full size clothes washing machine (front load).
- Full size electric clothes dryer (front load).
- 10 lb. ABC fire extinguisher.
- Set of travel restraint system.

\* Note: Unit construction specifications are subject to change without notice with product improvements.

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