

SECTION 133416.03 – MODULAR PRESS BOX

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide engineering, material, freight, installation, and supervision to provide new 8' – 0" x 48'-0" wide prefabricated, Type VB, modular press box.

1.2 REFERENCES

- A. NFPA 70 National Electric Code.
- B. International Building Code, (IBC)
- C. Act 364 of the Louisiana 2007 Regular Session, requires that Industrialized Buildings have the plans for each model reviewed by the Louisiana State Fire Marshal.

1.3 ACTION SUBMITTALS

- A. Complete shop drawings showing plans, sections, elevations, and wall sections showing complete detail of layout, connection, and trim detail.
 - 1. Include all attachments to grandstands.
 - 2. Plans shall have Louisiana State Fire Marshal stamp indicating their review and approval.
- B. The building shall have the proper Louisiana State Fire Marshal insignia installed indicating that this building meets the Louisiana State requirements.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 DESIGN CRITERIA

- A. General : Provide proper temporary bracing of the structure for wind and construction loads until the installation of all permanent structural elements is complete.
- B. Code Compliance : Units shall comply with NFPA 101, FBC, and ASCE 7
- C. All materials shall be new and shall comply with the requirements of the ASTM specifications.

1.6 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of 5-years experience in fabrication of grandstand structures.
- B. Engineering Qualifications :
 - 1. A licensed professional engineer registered in the State of Louisiana shall approve the Press Box design and all submittals shall bear said professional's seal.
 - 2. Calculations are required, must show all vertical and lateral loads, and must show positive and negative biaxial stress ratios.
 - 3. Submit the calculations with the approval drawings.
- C. Act 364 of the Louisiana 2007 Regular Session, requires that Industrialized Buildings have the plans for each model reviewed by the Louisiana State Fire Marshal.
- D. Product Liability : Provide details Certificate of Insurance, including products/complete operations insurance.

1.7 WARRANTY

- A. Provide product guaranteed for a period of one year against defective materials and workmanship for the manufactured modular press box and installed contents.
- B. Provide product guaranteed for a minimum period of 15 years against defective materials and workmanship for the roof of the manufactured modular press box.
- C. Damage resulting from abnormal use, vandalism, or incorrect installation (if installed by other than authorized installer of the manufacturer) is not applicable.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Subject to compliance with requirements, provide product indicated on drawings by "National Recreation Systems" or comparable elevated press box product by one of the following:
 - 1. American Press Box
 - 2. Panel Built Incorporated
 - 3. Whitley Manufacturing
- B. Prior approval before bid is required for products by one of the alternates listed above.

2.2 SIZE

- A. The overall size of the press box shall be 8'-0" x 48'-0" width and entrance platforms on both ends.

B. MATERIALS :

1. FLOOR CONSTRUCTION

- a. Bottom Board: 1/2" CDX plywood sheathing (painted black).
- b. Insulation : Min. R-19 fiberglass batts, with vapor barrier.
- c. Joists : 2" x 6" #2 SPF, on 12" centers, transverse framing.
- d. Decking : 3/4", underlayment grade, tongue and groove fir plywood, (Index 24" o.c.)
- e. Covering : 1/8" vinyl composition tile, color by owner.
- f. Molding : 4" vinyl base molding.

2. WALL CONSTRUCTION

- a. Studs : 2" x 6" dimensional lumber, grade #2 or better SPF, installed 16" o.c., IBC framing.
- b. Bottom Plate: 2" x 6" dimensional lumber, grade #2 or better SPF.
- c. Top Plates : (2) 2" x 6" dimensional lumber, grade #2 or better SPF
- d. Headers : As span and design load requires.
- e. Ceiling Height : 8'-0" in front sloped to back
- f. Covering : 5/8 vinyl-faced gypsum panels, Class A, F.S.R.
- g. Insulation : Minimum R-21 fiberglass batts with vapor barrier.
- h. Sheathing : 1/2" CDX Plywood and House wrap air infiltration barrier.
- i. Siding : MBCI "PBU-Panel" 26 gauge ribbed steel panels with Kynar 500 finish.

3. ROOF CONSTRUCTION

- a. Joists : 2" x 10" dimensional lumber, grade #2 installed 16" o.c or #1 SYP as required.
- b. Overhang : 15-1/2" over front wall; 6" over rear wall. .019 aluminum fascia with perforated aluminum soffit panels.
- c. Ceiling : 5/8" gypsum board, taped and bedded with smooth finish, Class A F.S.R.
- d. Insulation : Minimum R-30 fiberglass batts with vapor barrier.
- e. Decking : 3/4" Sturdifloor, underlayment grade, tongue and groove plywood (Index 24" o.c.)
- f. Covering : .060 polyester reinforced skid and spike resistant pvc membrane, fully adhered. Membrane shall be reinforced skid & spike resistant

4. WINDOWS

- a. Interior windows to be 1/4" tempered safety glass fixed pane with stained jambs and casing.

- b. Exterior windows shall be 62-1/4"x48" WINGUARD #HR7710A series, or equal, aluminum horizontal roller window w/ 13/16" LIG (1/8" ANN-3/8" AIR-5/16" ANN/ANN laminated) impact-resistant glass, gray tint and screens (mulled to create 125-1/2" clear span)
- 5. DOORS : (Exterior) : "Oakcraft" wood-gran textured insulated fiberglass entry door with solid vinyl jabs; 16" insulated/tempered lite, aluminum threshold, vinyl weather stops, stainless steel knuckle hinges and heavy-duty retention chain. Doors equipped with commercial lever-handled keyed locksets. Min. U-Value = .22
- 6. DOORS : (Interior) : 1-3/8" solid-core stained Birch door with stained Fruitwood Birch wood jambs and casing. Passage lever-handled hardware.
- 7. ELECTRICAL
 - a. Service Entrance Panel : Square D QO112M100 with Main Disconnect; rated at 120/240v, single phase, 100 amp capacity.
 - b. Switches/Receptacles :
 - 1) Pass & Seymour #TM870 125 volt/15 amp duplex, spec-grade, switches.
 - 2) Intermatic #EI500 programmable astronomical timer switches as required.
 - 3) Lutron #MSOPS5MLA occupancy sensor switches as required.
 - 4) Pass & Seymour #3232 125 volt/15 amp duplex, spec-grade, receptacles.
 - 5) Wiremold 5400 Series two-piece multi-channel, dual voltage, non-metallic surface raceway along front wall below scorer's counter, outlets on 48" centers.
 - 6) Conduit prep and circuitry for customer's PA and DATA systems.
 - c. Lighting
 - 1) Interior: SATCO #45/LED/1X4/FLUSH/3K/WH 45 watt, 30K LED 1X4 surface mounted LED light.
 - 2) Exterior: SATCO #S9014 4" (7 watt) 4000K LED recessed light
 - 3) Emergency/Exit: Lithonia ECR-REM-LED emergency combination exit/flood light with 90 min. battery back-up and ERE-SLG-WP LED remote emergency flood light.
 - d. Circuits: All branch circuit wiring is minimum #12 THHN copper wire encased in EMT thin-wall conduit or MC cable.
 - e. HVAC: GE Zoneline 4100 series packaged terminal HVAC units with integral thermostats if required
- 8. SCORER'S COUNTER : 18" deep x 3/4" lauan grade plywood with 1-1/2" x 2" edge, surfaced with .060 plastic laminate by Nevamar or equal.

9. CAMERA DECKS

- a. Hatch: Bilco Model NB50, or equal, 2'6" x 4'6" aluminum roof hatch.
- b. Ladder (Aluminum): Alaco Model H70, or equal, 70-degree ships ladder.
- c. Roof Surface: Dec-K-ing, or equal, .060 polyester reinforced skid and spike resistant PVC membrane, fully adhered.
- d. Railing mounts: 1/2" galvanized threaded bolts & nuts through roof fascia on 48" centers along perimeter edge of roof.

10. MISCELLANEOUS

10 LB. dry chemical fire extinguisher, tagged locally for Fire Marshal Inspection. Rated 4-A: 20-B:C

2.3 FABRICATION

- A. General: Design components and field connections required for erection to permit easy assembly.
 - 1. Mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and instruction manuals.
 - 2. Fabricate structural framing to produce clean, smooth cuts and bends. Punch holes of proper size, shape, and location. Members shall be free of cracks, tears, and ruptures.

PART 3 - EXECUTION

3.1 ERECTION OF STRUCTURAL FRAMING

- A. Erect building system according to manufacturer's written erection instructions and erection drawings.
- B. Do not field cut, drill, or alter structural members without written approval from building system manufacturer's professional engineer.

END OF SECTION 133416.03