



City of Hudson

505 Third Street
Hudson, Wisconsin 54016-1694

PHONE: (715) 386-4765

FAX: (715) 386-0804

**CITY OF HUDSON
ADVERTISEMENT FOR QUOTES
OVERHEAD DOORS FOR THE
PUBLIC SAFETY BUILDING/FIRE DEPARTMENT**

The City of Hudson is accepting bids for seven overhead doors for the Public Safety Building located at 222 Walnut Street, Hudson, WI. Specifications are available at City Hall 505 Third Street, or contact Fire Chief Jim Frye at (715) 386-5861 for specifications and more information.

Bids should be submitted to the City Clerk's office, 505 Third Street, Hudson, WI 54016 by Noon on Friday, August 20, 2010. The City reserves the right to reject any and all bids, to waive irregularities and informalities, and to award the contract to the best interests of the City.

Posted in City Hall lobbies, and City webpage: 7/27/10.
Star Observer: Publish 7/29/10 and 8/5/10 (send affidavit).



Sectional Overhead Door Specifications

Sectional Steel Overhead Doors for the Public Safety Building located at 222 Walnut St.

PART 1 GENERAL

1.01 SUMMARY

- A. Provide overhead door system, including:
 - 1. Industrial grade steel sections.
 - a. Full view tempered insulated glass section
 - 2. Track assemblies:
 - a. Standard headroom.
 - 3. Counterbalancing mechanism.
 - 4. Operation:
 - a. Electric
 - b. Photocell
 - c. Controls:
 - 1. Radio
 - 2. Interior 3 button
 - 5. Sectional overhead door accessories including, but not limited to:
 - a. Weather seals.
 - b. Warning placard.
- B. The following is not included in this section:
 - 1. Lock cylinder.
- C. Related Sections:
 - 1. Door Hardware
 - 2. Painting
- D. Alternations: Unit Prices:

1.02 REFERENCES

- A. ASTM:
 - 1. A653 – Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process.
 - 2. A924 – Requirements for Steel Sheet, Metallic Coated by the Hot Dip Process.
- B. Wisconsin State Energy Code

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:
 - 1. The U-Value of the installed door shall be 0.15 or less.
 - 2. Wind Loading: Design, reinforce to withstand 20 pounds per square foot wind loading pressure.

1.04 SUBMITTALS

- A. Reference:
- B. Product Data: Manufacturer's current Product Data, including specifications, handling, storage and installation instructions, and maintenance recommendations.
- C. Name of installer if other than sectional overhead door supplier.
- D. Shop Drawings, including configurations between systems and adjoining system.

- E. Samples:
 - 1. Verification: Prior to shipping, submit each type of finish indicated; in sets for each color, texture and pattern specified, showing a full range of variations expected in these characteristics. Include notification to City Representative if selected is not within specified price range.
- F. Quality Assurance/Control Submittals:
 - 1. Test Reports from Independent Testing Laboratories: True U-Value of door section.
 - 2. Certificates: Installed door complies with performance requirements.
- G. Proposals shall be itemized: Doors, door openers/related control devices, track assemblies, counterbalance, hardware, labor etc.

1.05 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide sectional overhead door units made of components of standard construction furnished by 1 manufacturer as coordinated assembly.
- B. Certifications:
 - 1. Manufacturer: 5 years experience in the manufacture of sectional overhead doors.
 - 2. Contractor: 3 years experience in the installation of sectional overhead doors.
 - 3. Personnel: For actual installation of sectional overhead doors, use personnel skilled in work required, completely familiar with manufacturer's recommended methods of installation, thoroughly familiar with requirements of work.
- C. Regulatory Requirements: Meet OSHA requirement for state of Wisconsin
- D. Field Samples: If requested, furnish corner section of each type of sectional overhead door to City Representative for review prior to manufacture and installation.
- E. Pre-installation Meetings: Installer and manufacturer's technical representative shall meet with City Representative prior to the start of installation.

1.06 PROJECT CONDITIONS

- A. Existing Conditions: Drawings do not purport to show actual field dimensions, but are intended only to establish location and scope of Work. Field verify dimensions and assume full responsibility for their accuracy.

1.07 WARRANTY

- A. Door materials, workmanship, and operation shall be guaranteed for a period of 1 year from Substantial Completion. The Contractor shall pay for service and maintenance trips.
- B. The finish shall be guaranteed against rusting or discoloration on any installed door for a period of 1 year from Substantial Completion.

1.08 MAINTENANCE

- A. Provide Manufacture's name and model number for all doors, door operators and hardware supplied

PART 2

a. MATERIALS

- A. Industrial Grade:

1. 7 - Exterior doors:
 - a. Steel sections:
 1. Construct faces of hot-dipped galvanized, structural quality carbon steel sheets complying with ASTM A653 and A924.
 2. Steel sheet thickness, 20 gage (minimum) exterior section face.
 2. Full view tempered insulated glass section to be placed in each of the seven doors.
 - b. Insulation:
 1. Insulate inner core of steel sections with extruded or high-density polyurethane foam-type insulation.
 2. Seal ends and exposed insulation to protect from moisture.
 3. Enclose insulation with manufacturer's standard steel sheet secured to door panel.
 4. Minimum R-value 14.3 glass section
 5. Minimum R-value 16 for steel sections.

2.03 FABRICATION

A. Industrial-Grade:

1. Fabricate to provide units not more than 24 inches high, nominal 2 inches (minimum) deep.
2. Roll horizontal meeting edges to continuous tongue and grooved seal.
3. Enclose open section with 16-gage galvanized steel channel end stiles welded in place.
 - a. Provide intermediate stiles, cut to door section profile, spaced at not more than 48 inches on center, welded in place.
4. Reinforce bottom section with continuous channel or angle conforming to bottom section profile.
5. Reinforce sections with continuous horizontal and diagonal reinforcing, as required by door width and design wind loading.
6. Provide galvanized steel bars, struts, trusses or strip steel, formed to depth bolted or welded in place.
7. Reinforce sections with backup plates and pre-punch for attachment of hardware.

B. Exterior Doors:

1. Provide a non-conductive thermal break between outside and inside steel faces.
2. Factory install joint seals between sections, perimeter seals at ends of sections, top header seals, and astragal on bottom section.

2.04 COMPONENTS

A. Industrial Grade:

1. Exterior

a. Track assemblies:

- 1) Furnish inclined wedge-type track assembly for 3-inch galvanized track and standard lift, with galvanized steel mounting angles.

b. Hardware:

1) General requirements:

- a) Heavy-duty, rust-resistant.
- b) Galvanized or cadmium plated or stainless steel fasteners to suit type of door.

- 2) Hinges and rollers:
 - a) 3-inch rollers shall have continuous steel rims with case-hardened raceways and ball bearings.
- c. Door springs:
 - 1) Heavy duty 50,000 cycle.
 - 2) Oil tempered helical wound torsion type on a solid steel shaft complete with greasable pillow block bearings.
 - 3) Torsion spring assembly shall be installed to allow for future replacement of components. Install springs with accessories to prevent sagging.
- B. Industrial Grade Operation:
 - 1. Operation shall be standard lift, as indicated on the Drawings or Schedules.
 - 2. Electric Door Operators: Equip with the following:
 - a. Adjustable disc friction type clutch, instant reversing contactor, starter, manual reset overload protection, limit switch and heavy duty solenoid actuated brake.
 - b. Quick disconnect for emergency operation. Extend quick disconnect through a minimum of two eyelets attached to the door and down to approximately 6 feet above finish floor using 5/32 inch diameter cable with 6 inch loop at bottom end.
 - c. Control circuit, 24 volt. Control station shall be 3-button momentary contact open/stop/hold close, fully guarded.
 - d. Draw bar type:
- C. Furnish single trolley for doors up to 16 feet wide.
- D. Safety Protection:
 - 1. Industrial Grade:
 - a. Furnish and install the following safety protection on all overhead doors unless noted otherwise:
 - 1) Photo eye (emitter-receiver type): 115 volt AC power, UL Listed or approved equivalent.
 - 2) Permanent ¼ inch high lettered placard to be placed adjacent to the switch, reading: WARNING – TO PREVENT ENTRAPMENT – DO NOT START DOOR DOWNWARD UNLESS DOORWAY IS CLEAR.
- E. Control Units:
 - 1. Industrial Grade: Equip each door with 1 radio receiver and 2 radio transmitters.
- F. Accessories:
 - 1. Weather Seals:
 - a. Continuous, rubber, neoprene, or flexible vinyl adjustable weather strip gasket at top.
 - b. Thermal seal between panel sections.
 - c. Compressible astragal on bottom.
 - d. Continuous flexible seals at door jamb edges for fully weather-tight installation. Can not shrink door opening width.

2.05 FINISHES

- A. Industrial Grade:
 - 1. Exterior Overhead Doors:

- a. Pre-treat zinc-coated steel with zinc phosphate conversion coating after cleaning.
- b. Apply 2-coat finish system (1.0 mil thick minimum) to both door faces after forming.
- c. Provide white color samples.
- d. Shall be light stucco with micro ribs or smooth finish.

PART 3

3.01 EXAMINATION

- A. Work of Other Trades: Prior to commencing work, carefully inspect and verify that work is complete to point where this installation may properly commence.
- B. Verification of Conditions: Verify that sectional overhead doors may be installed in accordance with original design, pertinent codes and regulations, and pertinent portions of referenced standards.
- C. Discrepancies:
 1. Do not proceed with installation in areas of discrepancy until fully resolved.
 2. Commencement of installation signifies acceptance of surface conditions.

3.02 PREPARATION

- A. Protection: Protect installed work and materials of other trades.

3.03 INSTALLATION

- A. Track Assemblies
 1. Slope tracks at proper angle from vertical or otherwise design to ensure tight closure at jambs when door unit is closed.
 2. Weld or bolt to track supports.
 3. Fasten vertical track assembly to framing at not less than 24 inches on center.
 4. Hang horizontal track from structural overhead framing with angle or channel hangers, welded and bolt-fastened in place.
 5. Provide sway bracing, diagonal bracing, and reinforcing as required for rigid installation of track, door-operating equipment.
 6. Secure, reinforce, support as required for size; weighted to provide strength, rigidity, to ensure against sag, sway, detrimental vibration during opening, closing of doors.
 7. Support, attach tracks at opening jambs with continuous angle welded to tracks and attached to wall.
- B. Use the following when heavy duty trucks will be using door:
 1. Safety Protection: Locate 1 electric eye 18 inches above the floor and the other one 28 inches above the floor.

3.04 REPAIR/RESTORATION

- A. Touch up marred finishes, but replace units that cannot be restored to factory-finished appearance.
- B. Use materials, procedures recommended for furnished by manufacturer.

3.05 ADJUSTING

- A. Upon completion of installation, including work by other trades, lubricate, test, and adjust doors to operate easily, free from warp, twist, distortion, fitting weather tight for entire perimeter.

3.06 CLEANING

- A. Site: Do not allow accumulation of scraps, debris arising from work of this section. Maintain premises in neat, orderly condition.
- B. System: Clean exposed surfaces of sectional overhead doors using materials and methods recommended by manufacturer.
- C. Labels: Upon completion of cleaning, provide and attach label to each door indicating name of manufacturer and name of installing contractor and all applicable warning labels.

3.07 DEMONSTRATION

- A. Startup Services: Provide the services of a factory authorized service representative to provide start up service and to demonstrate and train Owner's representative

3.08 REMOVALS

- A. Remove existing doors, door hardware, door track, and electric openers.

3.08 DISPOSAL

- A. Installer shall provide for disposal of existing doors, door hardware, door track, and electric openers.
- B. Installer shall provide for disposal of materials related to the installation of new doors, door hardware, door track, electric opener

3.09 COMPLETION

- A. The project shall be substantially complete within ninety days after the acceptance documents are signed.

3.10 PAYMENTS

- A. Payments will be made within thirty days upon substantial completion of the project.

3.11 PERMITS

- A. No building permit will be required.