

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 The list of work sections in this division is indicative and non-exhaustive. It does not exclude the works described in the other specification sections, shown in the drawings or necessary for the execution of the works in keeping with overall intent of the plans.
- .2 Section 06 10 00 – Rough Carpentry.

1.2 SCOPE OF WORK

- .1 Provide all labor, expertise, equipment and materials for the manufacture, delivery and erection of the complete structure of wood in perfect integrity with the other components.

1.3 WORK RELATED

- .1 In addition to all the wooden parts required to estimate which this section refers, provide :
 - .1 Connecting plates, bolts, studs and galvanized brackets for assembling the pieces of wood.
 - .2 Plates, angles and anchor bolts to concrete.
 - .3 Nails, screws and rivets.
 - .4 Nails explosives and expansive anchors.
 - .5 Nailing and hold.

1.4 REFERENCE CODES AND STANDARDS

- .1 Unless otherwise indicated, use the most recent editions of reference standards.
 - .1 Fabrication and performance according to standard O86.1 " Engineering Design in Wood " (Limit States).
 - .2 Panels of wood chips oriented strand board (OSB) CAN / CSA O437.
 - .3 Wood Plywood boards CAN / CSA O151 and CAN / CSA O121.
 - .4 Lumber CAN / CSA O151.

1.5 DESIGN REQUIREMENTS

- .1 Wooden small truss with metal connectors must be designed in accordance with the methods TPIC regarding frames, and in accordance with design requirements of CAN / CSA- O86 in terms of souls.
- .2 Small truss with metal connectors must be designed according to the methods of the TPIC regards joints ; they must meet the test requirements of CSA S347 standard and included in the collection of product evaluations CMAC.

- .3 Calculate the firm in accordance with CAN / CSA - O86.1, depending on the loads indicated in plans.
- .4 The distortion caused by overload must not exceed 1/360 of reach in the case of suspended ceilings with plaster directly to truss.
- .5 Unless otherwise prescribed, the distortion caused by overload must not exceed 1/240 of the span.

1.6 QUALITY ASSURANCE

- .1 Qualifications
 - .1 The manufacturer firm must show that it has implemented a quality control program approved by a competent regional association, or equivalent.
 - .2 The manufacturer of steel welded joints must be certified according to the requirements of CSA Standard W47.1.
- .2 Health and Safety
 - .1 Comply with occupational health and safety in building in accordance with Section [01 35 29.06 - Health and safety].

1.7 DOCUMENTS / SAMPLES SUBMITTALS / INFORMATION

- .1 Submit documents and samples required in accordance with Section [01 33 00 - Submittal Procedures].
- .2 Product Data :
 - .1 Submit product data in and specifications and the manufacturer's printed product literature accordance with Section [01 33 00 - Submittal Procedures].
 - .2 Shop Drawings.
 - .3 Each consignment shop drawings and assembly showing the assembly details must bear the seal and signature of a professional engineer registered or holding a license to practice in Canada, in the province.
 - .4 The drawings must show that the applications and specific structural specifications conform to the requirements of local authorities.
 - .5 The drawings must show compliance with the firm TPIC calculation methods and rules for calculating the CSA O86 and the registration number of connection plates to the collection of product evaluations CMAC.
 - .6 The shop drawings shall indicate the species and size of the pieces of wood used as binding elements and the constraints they can accept. They must also show the slope, the span between supports, camber, configuration and spacing of farms; types, thicknesses, dimensions, position, and the criteria for calculating the joining devices, as well as details of the supports. Shop drawings must also indicate the computational load of each element of the farms.

- .7 Submit a diagram of the constraints or printed computerized calculations showing the design loads farms. Indicate the permissible values for overload and increasing constraints.
- .8 Identify available cores or other frames to facilitate the installation of pipes, air ducts and other special accessories.
- .9 The location of all bracing for the frames subjected to compressive forces.
- .10 Test Reports : Submit test reports issued by recognized independent laboratories certifying that prefabricated trusses comply with specified physical characteristics and performance criteria.
- .11 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified physical characteristics and performance criteria.
- .12 Submit manufacturer instructions.

1.8 DELIVERY, STORAGE AND HANDLING

- .1 Equipment and materials must be transported, stored and handled in accordance with Section [01 61 00 - Common Product Requirements].
- .2 Storage and Protection
 - .1 Farms must be stored on site in accordance with the manufacturer's instructions. Supply and install the necessary supports and bracing to prevent, among others, the downturn, warping and the overthrow of the farms.
- .3 Management and disposal
 - .1 Separate waste in accordance with Section [01 74 21 - Management and Disposal Construction / Demolition Waste].
 - .2 Remove from site all packing materials and route them to the appropriate recycling facilities.
 - .3 All packaging materials made of paper, plastic, polystyrene, corrugated in appropriate bins on site for recycling in accordance with Waste Management Plan.
 - .4 Steel waste, metal, plastic for reuse / recycling and reuse, and place in designated containers in accordance with Waste Management Plan.
 - .5 Fold up metal banding and plastic, flatten and place in designated area for recycling.

Part 2 Products

2.1 MATERIALS

- .1 Timber : Designation wood EP-5 (spruce, pine , fir), Class No. 1-2 or better, with a moisture content not exceeding 19 % at the time of manufacturing firm in compliance with standards following.

- .1 .1 CAN / CSA- O141.
- .2 Grading Rules for Canadian Lumber, National Lumber Grades of (NLGA).
- .2 Engineered wood : wood with minimum physical characteristics comply with Article 2.3 of the section 10 June 01.
- .3 Connecting devices : comply with CAN / CSA - O86.

2.2 FABRICATION

- .1 Fabricate truss and timber beams as indicated on approved shop drawings.
- .2 When positioning truss and joists, leaving the necessary games to admit camber planned and get the slopes calculated for the roof.
- .3 Truss and joists must be assembled with approved connectors systems.

2.3 QUALITY CONTRÔLE SOURCE

- .1 The timber must be marked with a grade stamp bearing the seal of an organization recognized by the Accreditation Council of the Canadian Commission for Standardization timber.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance : comply with requirements, with manufacturer's written specifications, including technical bulletins, instructions on transportation, storage and installation instructions and data sheets.

3.2 MOUNTING

- .1 Erect trusses and wooden beams as indicated on shop drawings.
- .2 Perform handling, installation, assembly, bracing and lifting according to manufacturer's instructions.
- .3 Take steps to prevent truss and beams are subjected to stress during handling and assembly.
- .4 Move truss and beams with care to prevent bending in a plane other than the center line.
- .5 Install bracing and temporary bracing to maintain farms and beams perfectly straight, steadily, until the installation of permanent bracing and sheathing.
- .6 Install the final before submitting bracing trusses and beams to expenses in accordance with approved shop drawings.

- .7 Do not cut or remove any part of a truss or truss without the prior permission of the Departmental Representative.
- .8 Remove any deposits of the chemical or any other substance.

3.3 QUALITY CONTRÔLE ON SITE

- .1 Controls provided on-site by the manufacturer
 - .1 Arrange for the manufacturer of the products supplied under this section examines the work relating to the handling, installation / application, protection and cleaning of its product and submit written reports in an acceptable format, to verify whether the work is carried out under the terms of the contract.
 - .2 The manufacturer shall make recommendations on the use of the product, and periodic visits to check if the implementation was performed according to the recommendations.
 - .3 Schedule site visits to the following steps :
 - .1 After delivery and storage on site products, and preparatory work and other preparatory work completed, but before the start of the installation work of the work covered by this section.
 - .2 [Two (2) times] during the progress of the work, that is to say, once they completed at [25 %] and [60 %].
 - .2 Upon completion of Work, after cleaning.
 - .3 Obtain reports within [three (3)] days after the checks and submit them immediately to the Departmental Representative.
 - .4 Requirements for sustainable development for the control shall be in accordance with Section [01 47 17 - Sustainable development - control], and should focus on the following :
 - .1 Materials and resources.
 - .2 Storage and collection of recyclable materials and equipment.
 - .3 Construction Waste Management.
 - .4 Reuse / resource reuse.
 - .5 Recycled content.
 - .6 Local materials and hardware / Regional.
 - .7 Certified wood product.
 - .8 Materials and low-emission.

3.4 CLEANING

- .1** After the implementation or installation is complete, completion remove surplus / excess of materials, rubbish, tools and equipment.

END OF SECTION