

FACTORY CONSTRUCTED BUILDINGS AND STRUCTURES

Class: Permanent Engineered Structures

Customer: Grandeur Housing Ltd.
Location: Winkler, Manitoba

Listing No. REC573-5
Effective Date: November 27, 2014
Last Revised: July 7, 2015
Expires: N/A

Standard: CSA A277 "Procedure for Factory Certification of Buildings"
CSA C22.1 "Canadian Electrical Code, Part 1, Safety Standard for Electrical Installation"
National Building Code of Canada
National Plumbing Code of Canada

Product: Factory Built Permanent Engineered Modular Structures

Label: Products are labelled and marked in a permanent manner where it is readily visible after installation with the following information:

Specification Nameplate (Item 1096)

Black Lettering on White Background
Size: 8 ½ inches by 11 inches.
The specification nameplate is located in close proximity to the electrical panel board and includes:

- Manufacturer's name and address
- Model and serial number
- Date of manufacture
- Fuel type
- Complete electrical rating
- A list of appliances that are factory installed
- Ground snow load and roof design snow load
- Thermal resistance of insulation and the outside design temperature used in heat-loss calculations
- The building codes met by the building
- Additional markings as may be required

QAI label with 'c' identifier (Item 1097)

Black lettering with Silver Background.
The QAI label is usually located in close proximity to the electrical panel board.

Models: Structures are:
Permanent engineered modular structures under Part 3, 4, 5, 6 of the National Building Code. These permanent modular structures are classified under Group C or Group B, Division 3 occupancies comprised of single or multiple modules in single or up to a maximum of 3 storey configurations. Structures included in this listing require considerations from parts of the building code outside of Part 9 with respect to structural, fire safety, and mechanical systems.

Structural:
Conventional wood frame construction.

Electrical System:
120/240V, 60Hz, 200A max.

Plumbing System:
Conventional drainage and vent systems to a maximum of 240 hydraulic fixture units.

Heating / Ventilation:
Units are equipped with central electrical heat exchanger.

Fire Alarm System:
Units may be installed with a fire alarm system. This certification does not cover operation of the fire alarm system which is required to be tested and approved on site by a qualified technician.

Structures included in this listing classified under Group C occupancy are multi-residential dwelling units such as townhouses, hotels, or motels up to a maximum of 3 storeys in height. These permanent modular structures are constructed with marriage walls in between suites with a fire resistance of 1-hour and an STC rating of 60. The ceiling/floor assemblies in between storeys are constructed with a fire resistance rating of 1-hour and an STC rating of 52. STC test reports are stored in the project folder.

Structures included in this listing classified under Group B, Division 3 Occupancy are Care Facilities without Treatment such as Daycares or Children's Custodial Homes. These permanent modular structures are constructed under Part 9 of the National Building Code.

Modules are manufactured at a central facility and transported to the site location. These modules, when completely assembled on site, are equipped with normal facilities for connection to municipal water and electrical services. QAI certification covers the construction of the modules and any factory installed electrical and plumbing services, and is intended to obviate the necessity of further inspections by the local regulatory authorities except for site connections to services or to other modules and for site mounting features.

Structures covered in this scope do not include structures classified under any other occupancy other than those mentioned above.

The design of structures included in this listing require considerations from parts of the building code outside of Part 9 with respect to structural design, fire safety, and mechanical design systems.



The design and operation of the complete fire alarm system and sprinkler system, if provided, is not included in this listing. This listing does not include vehicular lighting or break wiring systems for transportation of the structures.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI.

No warrantee is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing.

Visit the QAI Online Listing Directory located at www.qai.org for the most up to date version of this Listing and to validate that this QAI Listing is active.

Questions regarding this listing may be directed to info@qai.org. Please include the listing number in the request.
