**Section 880.20 Plan Approval**

a) General Requirements. All manufacturers must obtain written approval from the Department for each model to be manufactured for location in Illinois prior to manufacturing the model unless the provisions for reciprocity are met. Written approval is not required for a variation to an approved model. Two copies of the following must be provided for Department approval, along with the plan review fee specified in Section 880.40:

1) General information including:

A) the manufacturer's name, address and telephone number;

B) the location of each manufacturing facility where the models will be manufactured;

C) name or number that identifies each model for which approval is requested;

D) name of contact person regarding the submittal;

E) name and address of the approved inspection agency employed by the manufacturer.

2) Plans, specifications and test results as required by subsection (b).

3) Quality control manual containing the requirements of subsection (c).

4) Plan review fee as specified in Section 880.40 of this Part.

b) Construction Details. Plans and specifications shall be drawn to scale and indicate the following minimum details:

1) Building Requirements

A) General

i) Floor Plan of each unit with all dimensions specified.

ii) Complete fastening schedule.

iii) Stair details.

iv) Moisture content of lumber.

v) Size of all doors and windows including installed height of egress window.

vi) Light and ventilation schedule.

vii) Size and location of crawl space and attic accesses.

viii) Safety glazing specifications.

ix) Flashing for doors and windows.

x) Recommended foundation detail and crawl space ventilation.

xi) Design loads for floor, walls, and roof systems.

xii) Method of fire stopping openings.

xiii) Pertinent engineering calculations and/or test data reports on structural members, splices and connections.

xiv) Research reports from a model code organization indicating the approval of any material that is proposed to be used but not specifically approved in one of the adopted codes.

B) Floor System

i) Spacing, size, grade and species of framing material including the allowable stress and modulus of elasticity.

ii) Lateral and end support.

iii) Location and size of notches and holes.

iv) Method of framing around openings such as stairways, plumbing pipes, heating components and wheel wells.

v) Size and type of subfloor/underlayment and panel identification index and method of installation.

vi) Type and "R" value of floor or foundation insulation.

vii) Type of vapor barrier.

C) Wall System

i) Ceiling height.

ii) Spacing, grade and species of framing materials.

iii) Typical framing details of corners, doors, windows, etc.

iv) Fire separation method and material between dwelling units and between dwelling unit and garage.

v) Method of corner bracing.

vi) Type of exterior sheathing and siding.

vii) Type of finished interior material and flame spread.

viii) Type and "R" value of insulation.

ix) Type of vapor barrier.

D) Roof/Ceiling System

i) Spacing, grade and species of framing material.

ii) Size and type of roof sheathing, panel index, and method of installation.

iii) Pitch of roof.

iv) Method and amount of attic ventilation.

v) Type and "R" value of insulation.

vi) Type of vapor barrier.

vii) Type of roof covering and underlayment.

viii) Type and flame spread of ceiling finish material.

ix) Detail and calculations of ridge beams.

x) Test results of trusses if evidence of design approval by a registered engineer or architect is not provided.

2) Plumbing

A) Schematic of water supply, drainage and vent layout including size and type of all pipes, fittings, cleanouts and valves.

B) Method and interval of supporting all pipes.

C) Maximum trap to vent distances.

D) Slope of drainage and vent pipes.

E) Location of vacuum breakers, relief valves and air chambers.

3) Electrical

A) A schematic of the electrical system showing the location of all receptacles, lights, switches, junction boxes and panel boxes.

B) Type and location of ground fault circuit interrupters.

C) Type and location of smoke detectors.

D) Size of all feeders and branch circuits.

E) Method and detail for grounding service equipment.

F) Typical load calculations for service and feeders.

G) Size and rating of main disconnect/overcurrent protective devices.

H) Protection and support of conductors.

I) Method of mounting fixtures and wiring installation.

J) Method of interconnection between two or more separately towable components and location of connections.

4) Mechanical

A) Location and clearances of all mechanical equipment and appliances.

B) Manufacturers' listing or labeling of all equipment.

C) Size and location of all registers.

D) Drawing of the duct system including the supply, return and combustion air with indication of the size, gauge and type of material and the method of support.

E) Location of flues, vents, clearances from air intakes and other vents and flues.

F) Venting of appliances.

G) Heat loss and heat gain calculations.

H) Drawings of the fuel supply system indicating the type and size of pipe, method and interval of support and required valves.

5) Verification of plans

A) The plans for all multiple family modular and mobile structures other than duplex units shall bear the seal of an Illinois registered architect or equivalent if required by the Illinois Architecture Practice Act of 1989 [225 ILCS 305.

B) When designs cannot be verified by the incorporated or referenced codes of Section 880.15 or by calculations, tests of the components in question must be conducted by an independent testing agency.

6) Simplification of submittal

A complete set of plans for each separate model is not required if reference is made to the manufacturer's standard construction plans and if plans and specifications are provided for the specific changes from those standards.

c) Quality Control Procedures

1) The manufacturer shall develop a procedure to assure that all operations at the plant are performed to conform to the requirements of this Part. Such procedures shall be contained in a quality control manual, which shall be available at the plant. As a minimum the following shall be contained in this manual:

A) Material receiving inspection procedure.

B) Material storage and stock rotation procedure.

C) Description of construction stages with the title of the person responsible for each phase.

D) Detailed list of all items that shall be inspected.

E) Test procedures for testing the plumbing, fuel supply and electrical systems.

F) Delivery procedures.

G) Recordkeeping procedures, including the procedures for ordering, assigning and filing the Department seal and compliance certificate and the approved inspection agency's report.

2) The manufacturer shall update the manual to reflect any changes in the operation. These revisions shall be submitted to the Department.

d) Evidence of Plan Approval

1) If, after a review of the required plans, specifications and supporting information required in this Section, it is determined that the material is in compliance with this Part, an approval shall be issued to the manufacturer by the Department in writing. A copy of this approval will be sent to the approved inspection agency employed by the manufacturer. This approval shall specify the particular models that are approved and the location of the factory where construction of the units is approved. The manufacturer shall keep one set of approved plans at the manufacturing facility.

2) The Department shall compile a list of all manufacturers approved to locate models in Illinois. The list shall be available to any person by contacting the Illinois Department of Public Health, Division of Environmental Health, 525 West Jefferson, Springfield, Illinois 62761, 217-782-5830.

(Source: Amended at 30 Ill. Reg. 13486, effective July 28, 2006)