



**PRE-FABRICATED BUILDING REQUIREMENTS
SUBMITTALS-INSPECTIONS-SEALS
2006-2007 SCHOOL YEAR**

The Minnesota State Building Code consists of the following documents for residential construction along with amendments.

2000 International Residential Code
2005 National Electrical Code
2003 Minnesota Plumbing Code
2000 International Mechanical Code w/Minnesota amendments
2000 International Fuel Gas Code
2000 Minnesota Energy Code

The following cannot be stressed enough. The manufacturers installation requirements must be followed for all windows, doors, shingling and siding products you will use. The inspectors will be asking for these instructions during the rough-in inspections and if they are not followed, you will be required to **redo** the faulty installation. **You must have the manufacturer's installation instructions available for the inspector before an inspection will be done.**

Important code items that must be followed for approval:

(The list below is a collection of items changed or missed this past year)

1. A Minnesota licensed electrical contractor is required to complete the installation of all wiring which includes **communication wiring** regulated by the National Electric Code-chapter 8. This includes cable TV, telephone and computer data cable. Minnesota Statutes 326.242 Subd. 6.
2. Roof loads - The northern half of the state is now to use a 42# live load the Southern part 35# live load and in both cases a 10# non concurrent live load is required on the ceiling joist or bottom truss chord. MSBC 1303.1700. See attached illustration.
3. Weather resistive barrier - This is an amendment that requires all exterior walls to be covered with 15# paper or equivalent that is installed prior to the installation of siding or the exterior cladding. MSBC 1309.0703.
4. Exterior flashings - Minnesota amendments to the MSBC require drip caps over all exterior openings and does not include the exception in the IRC that exempts windows and doors with built in flashings or nailing flanges. MSBC 1309.0703. Also flashings are to redirect the water to the **surface of the exterior covering.**
5. The legislature has mandated the installation of a carbon monoxide detector within 10 feet of a sleeping room. This is effective January 1, 2007.

6. Vapor Barrier under floor slab - this will not relate to the house you are building but will effect the basement slab the homeowner puts in if they set the house on a basement. IRC R506.1. This note is to be on the basement drawing.
7. Ice protection - Ice damn protection is required to be installed up the roof 24” beyond the interior of the exterior wall line instead of the 12” as in the past. IRC R905.2.7.1.
8. Smoke alarms - Need to be tied together to all sound if one sounds, are to be located in each sleeping room, areas leading to sleeping rooms, and on each floor and in the basement. The detector located in vaulted spaces adjacent to sleeping room access has been eliminated, but if the sleeping room door is directly from the living space that living space will require a smoke alarm. IRC R317.1.
9. An attic access opening shall be provided that has a rough-framed opening not less than 22 inches by 30 inches and be located in a hallway or readily accessible location. IRC R807.1. Located in closets over shelving is **not** acceptable.
10. Minnesota energy calculations can be performed using RES check which can be downloaded from the internet at www.energycodes.gov/rescheck/ . This must be submitted with the “Notice of Intent to Build”
11. It is a violation of the building code to sell, offer for sale or ship a home without labels installed and certificates indicating code compliance. MSBC 1360.0500
12. Follow the asphalt shingle manufacturers instructions for location and type of fasteners to be used.

The codes can be purchased from the Minnesota Bookstore 651.296.3000. You can also access information on the code or amendment through our web site www.doli.state.mn.us/buildingcodes.

Enclosed are the forms and informational handouts that are to be used in conjunction with the home you may be building this year. Return the “Notice of Intent to Build”, truss drawings and other forms as needed.

If you are using an approved plan from the last three years, you need not submit the plan for review this year, simply indicate on the “Notice of Intent To Build” the plan approval number issued last year.

You need to submit plans if you are submitting plans for the first time, or revising approved plans or building from a different floor plan. The plans are to include - exterior elevations, floor plan, basement plan, wall section, stair section, plumbing schematic, truss drawings and electrical layout. Items that need to be shown on the plans and plan review checklist can be requested from our office.

If you have any questions you can contact Duane DeLonais at 651.284.5859.

Enclosure:

Notice of Intent to Build

Request for inspections

School Approval Checklist

Window and Door Schedule

Roof Ventilation Work Sheet

Seal Application

| | |
|---------------------|---------------|
| FOR OFFICE USE ONLY | |
| Date Received | Date Approved |
| Plan Approval #: PB | |



NOTICE OF INTENT TO BUILD

STUDENT BUILT DWELLING FOR SCHOOL YEAR 2006/2007. Please complete this form and return to Building Codes and Standards Unit. **Manufactured Structures Section**, 443 Lafayette Rd. N., St Paul, MN 55155-4341

| | |
|--|--|
| School Name: | |
| Address: | Instructor: |
| City/State/Zip: | Telephone: () |
| Cooperative District (If needed): | E-mail Address: |
| Address: | Approximate Start Date: |
| City/State/Zip: | Approximate Finish Date: |
| Roofing System: Framed Roof Factory Built Trusses | Provide engineered and sealed truss drawings reflecting the new live loads. |
| Inspector's Name if other than a State Building Code Representative: _____ (Inspector shall be pre-approved and authorized by the Building Codes and Standards Unit.) | |
| Inspector's Phone if other than a State Building Code Representative: (____) _____ | |
| The following required information must be provided to this office after the bid has been awarded: | |
| Electrical Sub-Contractor | Plumbing Sub-Contractor |
| Name: | Name: |
| Address: | Address: |
| City/State/Zip: | City/State/Zip: |
| Telephone: () | Telephone: () |
| Mechanical Sub-Contractor | Other Sub-Contractor |
| Name: | Name: |
| Address: | Address: |
| City/State/Zip: | City/State/Zip: |
| Telephone: () | Telephone: () |



REQUESTS FOR INSPECTIONS

Manufactured Structures Section

Request for Final Inspection

Date _____/_____/_____

Request to be made after everything is completed (or as complete as time permits). At this time remit \$30.00, together with the Application for Seals and Certificate form to the Building Code Division for the state seal to be applied to the home. Make checks payable to: Minnesota Department of Labor and Industry. Please, request your final inspection a minimum two weeks prior to the expected inspection date.

School _____ Located at _____

Request Inspection Date ____/____/____ By _____

Phone Number: _____

Plan Approval Number: PB _____ (CUT ALONG HERE)

Request for Insulation Inspection

Request to be made after all wall insulation and vapor barrier is in place. If you are using batt or blanket insulation in the ceiling, then that insulation must be in place. If blown in insulation is used, that will be inspected at the final inspection. Mail to the Minnesota Building Codes and Standards – Manufactured Structures Section a minimum two weeks prior to the anticipated inspection date.

School _____ Located at _____

Request Inspection Date ____/____/____ By _____

Phone Number: _____

Plan Approval Number: PB _____ (CUT ALONG HERE)

Request for Framing Inspection

Request to be made after framing, roofing and bracing is in place. All pipes and vents are complete and the rough-in electrical inspection is completed. Mail to the Minnesota Building Codes and Standards – Manufactured Structures Section a minimum two weeks prior to the anticipated inspection date.

School _____ Located at _____

Request Inspection Date ____/____/____ By _____

Phone Number: _____

Plan Approval Number: PB _____



SCHOOL APPROVAL CHECK LIST

- **Submit "Notice of Intent to Build"**
- **Submit three sets of plans (If there are changes to the existing approved plans or a new plan is being built)**
- **Receive plan approval**
- **Start to build**
- **First inspections. (rough in structural-house framed and roofed, rough in plumbing, and rough in electrical)**
- * **Second inspections. (insulation and vapor barrier)**
- * **Third and final inspection at the school building site. (to be done at the time the home is completed or at the point of completeness before the home is being moved)**
- **Request seal for home. (Submit Application together with \$ 30.00 payable to Minnesota Department of Labor and Industry)**
- **Engrave, fill out and apply seal and Data Plate.**
- **Return "State Copy" of data plate to:
Construction Codes and Licensing Division
Building Codes and Standards Unit
Manufactured Structures Section
443 Lafayette Rd. North
St. Paul, MN 55155-4341**

*** Anticipate the inspection date approximately two weeks prior to the actual date so we can coordinate inspections with other locations or inspectors to keep your costs to a minimum. Plan review time and inspection time as well as travel time is invoiced to the school / builder at \$ 45.00 per hour.**



ROOF VENTILATION WORK SHEET

Key

Formula's

Length in Feet

$L \times W = A$

Width in Feet

_____ x _____ = _____

Area Sq. Feet

A ventilation required Sq. feet

A divided by 300 = V Sq. ft.

ventilation required Sq. inches

_____ divided by 300 = _____ Sq ft.

\underline{V} sq. ft. x 144 = v sq. inches

_____ sq. ft. x 144 = _____ sq. inches required.
(see below)

Ventilation Provided

Roof ventilation: _____ roof vents at _____ sq. inches or ridge vent at _____ sq.
(number)
inches per lineal ft. Total roof ventilation _____ sq. inches.

Soffit (eave) ventilation: _____ sq. inches per lineal ft. of soffit.

Total soffit ventilation _____ sq. inches.

_____ + _____ = _____
Roof Ventilation Soffit Ventilation Total Ventilation

TOTAL VENTILATION PROVIDED: _____
(Must be equal to or greater than sq. inches required.)



APPLICATION FOR SEALS AND CERTIFICATES

| | |
|-----------|-----------------------------------|
| Firm Name | Telephone No. (Include Area Code) |
| Address | City, State Zip |

| Amount | Description | Unit Cost | Total \$ |
|--------|---|-----------|----------|
| | Prefabricated Building One & Two Dwelling Compliance Seals and Certificates | \$30.00 | \$ |

Check if address or telephone number has recently changed.

NOTE: Make check or money order payable to: Minnesota Department of Labor and Industry

Plan Approval Number: PB _____

Send the application to:

**Construction Codes and Licensing Division
Building Codes and Standards Unit
Manufactured Structures Section
443 Lafayette Rd. North
St. Paul, MN 55155-4341**