

Ministry of Labour, Immigration, Training and Skills Development

Agricultural Building Truss Construction

Canadian Farm Builders Association

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Note:

This presentation has been prepared to assist workplace parties in understanding their rights and duties under the Occupational Health and Safety Act (OHSA) and its regulations.

This presentation does not constitute legal advice.

To determine your rights and duties under OHSA, please contact your legal counsel or refer to the legislation.

Campaigns – falls from heights and Struck-by

Occupational health and safety inspectors carry out their campaigns to:

- ✓ raise awareness of hazards
- ✓ increase compliance with the *Occupational Health and Safety Act* and its regulations

Provincial health and safety compliance campaigns focus on specific hazards or topics and have two phases:

During **phase 1** of the initiatives the ministry focuses on **education, outreach, and awareness**



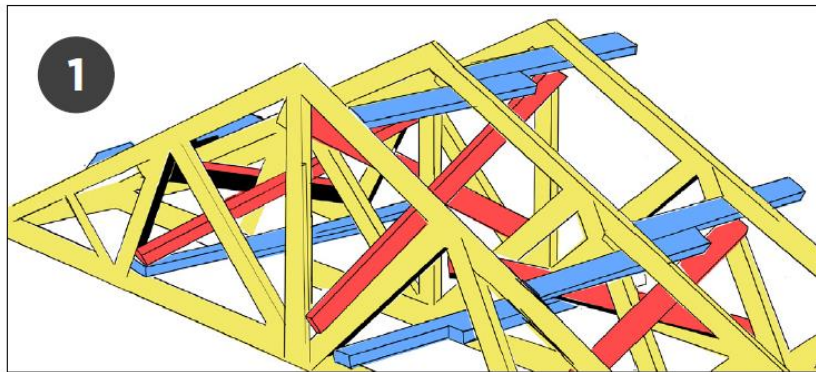
During **phase 2** the ministry conducts a **focused inspection blitz**

IHSA Long-Span Wood Truss Guideline

- Developed in conjunction with IHSA, MLITSD, CFBA and the RFCA
- Can be accessed through IHSA.ca
- <https://www.ihsa.ca/products/w211>
- Includes three different methods for safely erecting and bracing trusses



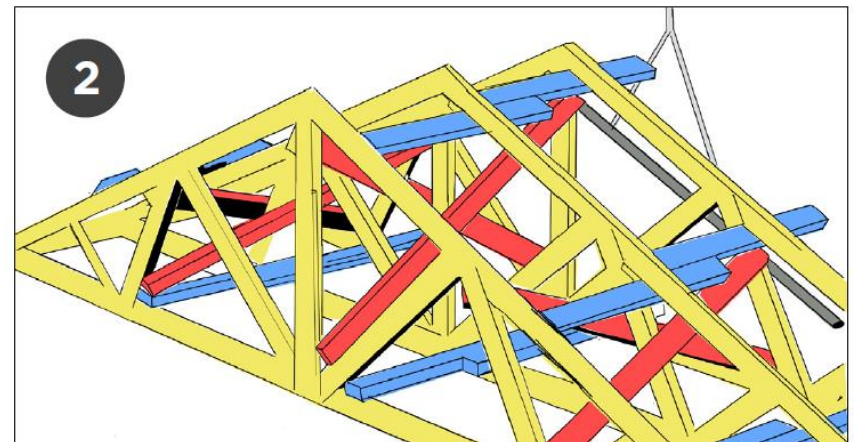
Preferred Method of Installation



Assemble at least three (3) trusses on level ground, with:

- Horizontal braces on the top and bottom chords, not more than 3 metres (10 feet) apart.
- Cross braces placed on the webs of the trusses, as close to the top and bottom chord bracing as possible.

This creates a rigid unit from which the next group of trusses can be supported. It also helps to decrease the amount of time that workers spend working at heights.

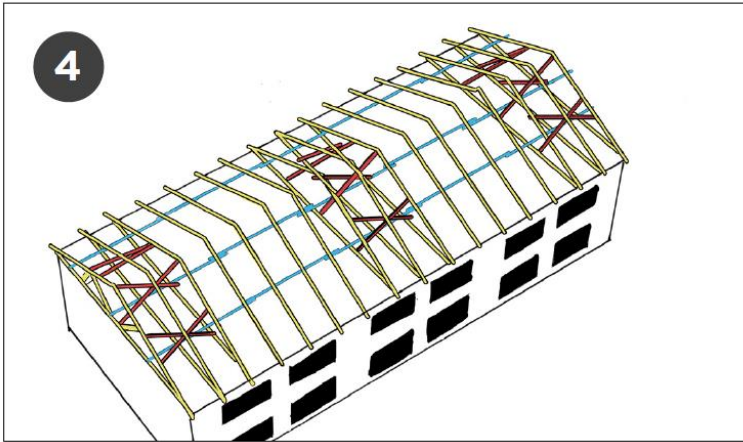


Secure/brace the walls of the building that the truss assembly will be placed upon, then hoist the trusses into place using a crane equipped with a spreader bar that has been engineered to handle the load.

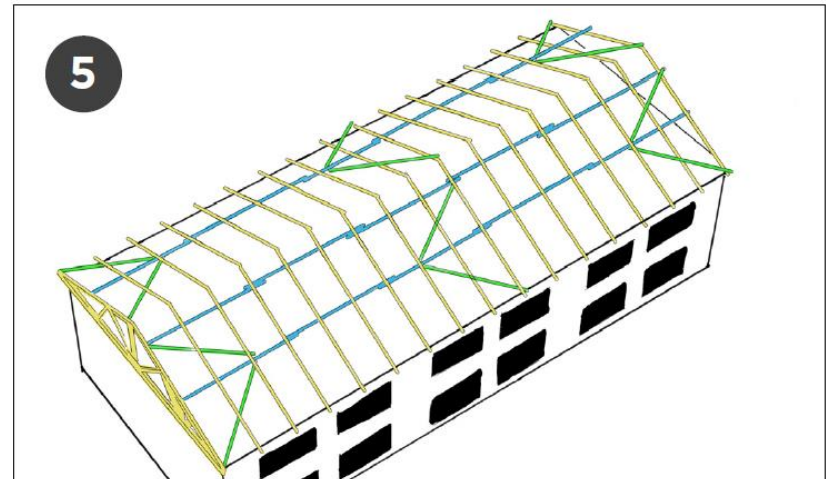
For more on regulations and safe-operating procedures, refer to IHSA's [Mobile Crane Manual](#) (MCO01), as well as the [Rigging chapter](#) in IHSA's [Construction Health and Safety Manual](#) (MO29).

Preferred Method of Installation

- 3** Continue assembling blocks of trusses on the ground with horizontal braces only. Be sure to also install cross bracing according to the design drawings, or at least every 6 metres (20 feet), connecting each group of three trusses (as in Step 1, second bullet).



Brace each preassembled block of trusses back to the previous block—using horizontal braces on the top and bottom chords.

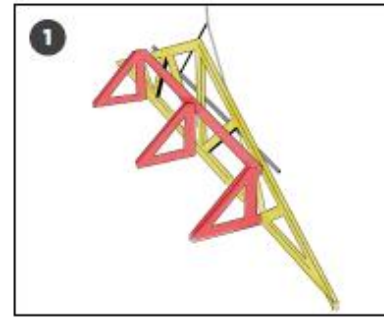


Once all blocks of trusses are installed with horizontal and cross bracing, diagonal bracing must be installed, every 6 metres (20 feet), on the undersides of top chords.

*For ease of viewing, diagrams for Steps 4 and 5 show only the braces specified in those steps. (Horizontal braces on the bottom chords for Step 4 and Step 5, as well as cross braces for Step 5, are not shown.)

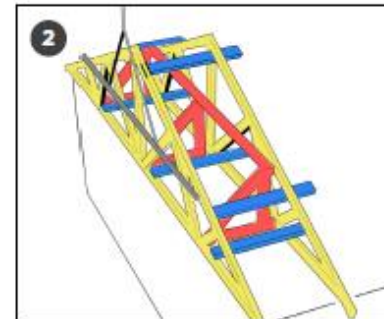
Alternate Method #1

- This method is similar to the preferred method but instead of 3 preassembled trusses being hoisted, it uses one, in the second truss position with temporary braces.
- The truss in the first position is then added and braced to the truss in the second position and so on...

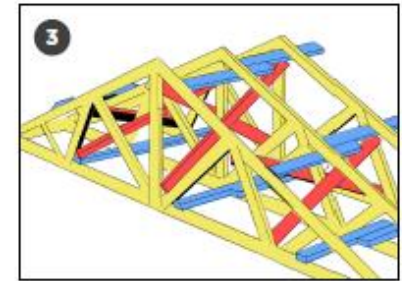


Secure/brace the walls of the building, then hoist a single truss into place, 2 feet from edge of external wall. Attach truss to prefabricated braces at no more than 3-metre (10-foot) intervals.

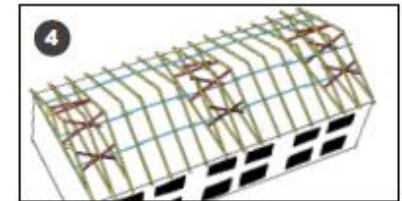
Important! Follow all regulations and safe-work practices for crane use, hoisting, and rigging. (See Step 2 of [Preferred Method](#) above.)



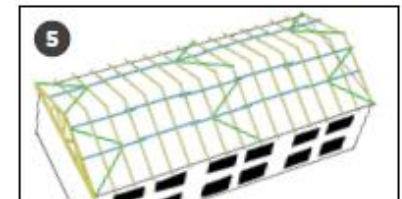
Hoist second truss into position on the opposite side of the prefabricated brace (i.e., along the building's end wall). Secure to previously installed truss with horizontal braces along top and bottom chords, not more than 3 metres (10 feet) apart.



Position next truss, secure it with horizontal braces to the adjacent truss, and then install cross bracing on the webs of all three trusses, as close to the top and bottom chord bracing as possible.



Continue installing each truss, one by one, using horizontal bracing on the top and bottom chords. Be sure to also install cross bracing according to the design drawings, or at least every 6 metres (20 feet), connecting each group of three trusses (as in Step 3).



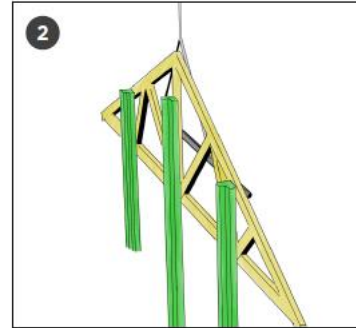
Once all trusses are installed with horizontal and cross bracing, diagonal bracing must be installed, every 6 metres (20 feet), on the undersides of top chords.

*For ease of viewing, diagrams for Steps 4 and 5 show only the braces specified in those steps. (Horizontal braces on the bottom chords for Step 4 and Step 5, as well as cross braces for Step 5, are not shown.)

Alternate Method #2

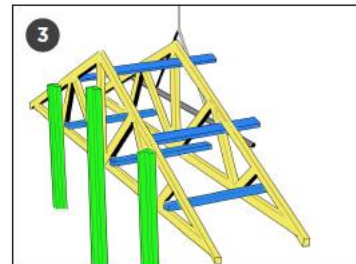
- This method is similar to the preferred method but instead of 3 preassembled trusses being hoisted, it uses vertical supports from the wall to support the first truss when the second truss is hoisted into position and braced off the first truss.
- All consecutive trusses are braced and cross braced accordingly.

1 Secure/brace the walls of the building and install vertical bracing along the outer wall.



Hoist single truss into place and secure it to vertical bracing.

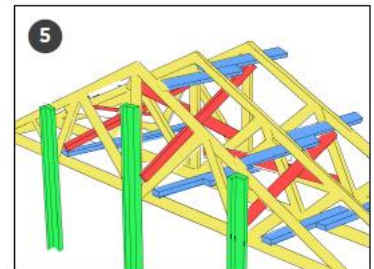
Important! Follow all regulations and safe-work practices for crane use, hoisting, and rigging. (See Step 2 of the [Preferred Method](#), above.)



Position second truss and secure it to first truss, using horizontal braces along top and bottom chords, not more than 3 metres (10 feet) apart.



Position the third truss and secure it to the second truss, using horizontal braces along top and bottom chords, not more than 3 metres (10 feet) apart.



Install cross bracing on the webs of all three trusses, as close to the top and bottom chord bracing as possible.

6 Continue installing additional trusses with horizontal and cross bracing (and, when complete, diagonal bracing) per Steps 4 and 5 of [Alternative Method 1](#), above.