

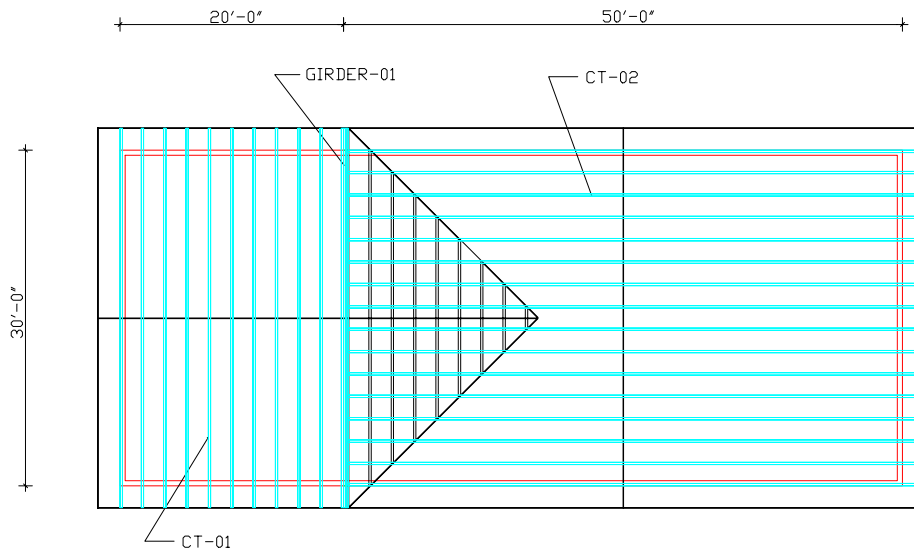
# TPIC Technical Bulletin #3

Revision date: Nov. 9, 2007

## Part 4 Trusses in Part 9 Buildings

This commentary presents two different scenarios for Part 4 trusses in Part 9 buildings and presents the guidance TPIC was given by the Codes Section of the Institute for Research in Construction, who assists the Committees responsible for the preparation of the National Building Code of Canada.

### Case 1. Girder-01 with a span of 30' supporting trusses 50' long.



#### Design Requirements:

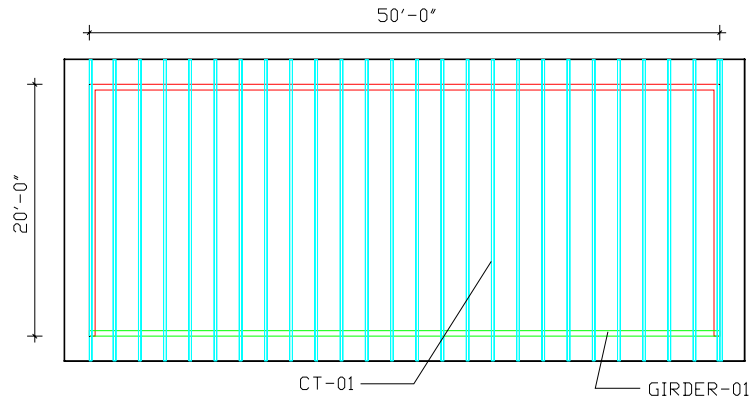
Truss CT-01	55% GSL	Part 9 Design
Truss CT-02	80% GSL + Imbalance	Part 4 Design
Girder-01	Highest Reaction of CT - 02	Part 4 Design

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### Part 4 Trusses in Part 9 Buildings

#### Case 2. Girder-01 with a span of 50' supporting trusses 20' long.



#### Design Requirements:

Truss CT-01	55% GSL	Part 9 Design
Girder-01	Reaction of CT-01	Part 4 Design

#### Case 3. Standard Fully-Triangulated Roof Trusses.

It is the opinion of the Technical Committee, based on a letter from John Haysom (of Part 9 NBCC) that Part 9 Occupancy Buildings that need to be run Part 4 due to span (even if all the trusses in the building exceed 40 ft clear span) do not necessarily need to be run for full wind analysis except when local jurisdiction indicates otherwise. Non-triangulated trusses, such as attic and gambrel frames, shall always be designed based on Part 4 in all cases (See TPIC Technical Bulletin #2).