

**Roof Loading Data Sheet**

Authority: 1972 PA 230  
 Completed prior to application for plan review and building permit. This form is a voluntary form used to assist in the permit approval process.

Completion: Jurisdictional information should be included in this space

Applicant's Name:		Date:
Applicant's Address:		Permit Number:
City:	State:	Zip:
Applicant's Signature:		
Job Location:		
Address:		
Township/Village/City:		County:

**THIS FORM SHOULD BE COMPLETED BY THE PERMIT APPLICANT, OR DESIGN PROFESSIONAL FOR C<sub>a</sub>, C<sub>b</sub>, AND I, PLACE AN "X" IN THE APPROPRIATE BOX THAT BEST DESCRIBES THE STRUCTURE.**

Ground Exposure, P<sub>g</sub> = \_\_\_\_\_ From Figure R301.2(5) MRC or Figure 1608.2 MBC

Exposure Factor C <sub>a</sub>							
Exposure		Fully Exposed <sup>1</sup>		Partially Exposed <sup>2</sup>		Sheltered <sup>3</sup>	
A	Large city center with at least 1/2 the buildings exceeding 70 ft. in height.	N/A		1.1		1.3	
B	Urban and suburban areas, wooded areas or other terrain with closely spaced objects having the size of single-family dwellings or larger.	0.9		1		1.2	
C	Open terrain with scattered obstructions having heights less than 30 ft. (flat open country)	0.9		1		N/A	
D	Flat unobstructed areas exposed to wind flowing over open water for a distance of at least 1 mile. (i.e. Great Lakes.)	0.8		0.9		N/A	

<sup>1</sup>Fully Exposed: Roofs exposed on all sides with no shelter by terrain, higher structures, or trees.

<sup>2</sup>Partially Exposed: All roofs except those designated as "fully exposed" or "sheltered."

<sup>3</sup>Sheltered: Roofs located tight among conifers that qualify as obstructions.

**Thermal Factor C<sub>t</sub>**

Thermal Condition <sup>4</sup>	C <sub>t</sub>
All structures except as listed below	1
Structures kept just above freezing and those with cold, ventilated roofs with an R factor of 25 or greater between the ventilated and heated spaces, such as attics	1.1
Unheated structures and those intentionally kept below freezing, such as seasonal building or storage buildings	1.2
Continuously heated greenhouse with a roof R Value less than 2 and having an interior temperature maintained at about 50 degrees 3 ft above the floor during winter months and a temperature alarm system or an attendant to warn of a heating failure.	0.85

<sup>4</sup>These conditions shall be representative of the anticipated conditions during winter months for the life of the structure

**Importance Factor**

Category	I
I Building and other structures representing low hazard to human life, i.e.: Agricultural, Temporary, and Minor Storage Facilities.	0.8
II All buildings except those listed in Categories III and IV.	1
III Building and other structures representing substantial hazard to human life in the event of failure.	1.1
IV Buildings and other structures designated as essential facilities.	1.2

**Attic Live Load**

Entire Attic	Y/N
Specific Areas (if yes, list areas below)	Y/N
List Rooms:	