

### ROOF LOADING DATA SHEET

Authority: 1972 PA 230 Complete prior to application for plan review and building permit. This form is a voluntary form used to assist in the permit approval process.		Jurisdiction Information:	
Applicant's Name:			Date:
Applicant's Address:			
City:		State:	Zip:
Applicant's Signature:			
Job Location:			
Address:			
Township/Village:			County:

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

Ground Exposure, P <sub>g</sub> =
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From Figure R301.2 (5) MCR or MRC table R301.2(5)

#### Exposure Factor C<sub>e</sub>

Exposure		Fully Exposed <sup>1</sup>		Partially Exposed <sup>2</sup>		Sheltered <sup>3</sup>	
A	Large city center with at least ½ 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	X	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	

1. Fully Exposed: Roofs exposed on all sides with no shelter by terrain, higher structures, or trees.
2. Partially Exposed: All roofs except those designated as "fully exposed" or "sheltered".
3. Sheltered: Roofs located tight among conifers that qualify as obstruction.

#### 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	X
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° F 3 ft. above the floor during winter months and a temperature alarm system or an attendant to warn of a heating failure.		0.85	

4. 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	X
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	

#### Active Live Load

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