

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: <p style="text-align: center;">ANTRIM COUNTY PO BOX 188 BELLAIRE, MI 49615</p>	
Applicant's Name:	Date:	
Applicant's Address:		
City:	State:	Zip:
Applicant's Signature:		
Job Location:		
Address:		
Township/Village:	County: ANTRIM COUNTY	

THIS FORM SHOULD BE COMPLETED BY THE PERMIT APPLICANT OR DESIGN PROFESSIONAL FOR C_e, C_t AND I. PLACE AN "X" IN THE APPROPRIATE BOX THAT BEST DESCRIBES THE STRUCTURE.

Ground Exposure, P_g = **60/70 psf**

From Figure R301.2 (5) MCR or MRC table R301.2(5)

Exposure Factor C_e

Exposure		Fully Exposed ¹		Partially Exposed ²		Sheltered ³	
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		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_t

Thermal Condition ⁴	C _t	
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° 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	0.8
II	1
III	1.1
IV	1.2

Active Live Load

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

