



**Western Wood Truss Association  
(Manitoba, Saskatchewan, Northwest Ontario)  
Truss Design Checklist**

The purpose of this document is to help truss designers and their customers determine and clarify the appropriate design values for trusses in any proposed building, especially farm buildings.

The WWTA recommends that a professional engineer of record be engaged for the structural design of all farm buildings, and further recommends that the wind exposure factor for specified snow load ( $C_w$ ) be fixed at 1.0 in any of the following cases, unless otherwise specified by the engineer of record:

1. The truss clear span exceeds 60 feet (18 meters), or
2. The building area exceeds 7500 square feet (700 square meters), or
3. Adjacent roof or wall projections could lead to snow drift accumulation, or
4. Structural components in the building other than trusses require design by an engineer, or
5. The building environment is expected to be corrosive or require special ventilation measures.



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Customer:	_____	Work Order No.	_____
Address:	_____	Date:	_____
Tag Name:	_____	Sales Initial:	_____
Job Site:	_____	Design Initial:	_____
Contact:	_____	Phone:	_____
E-mail:	_____	Fax:	_____

Bldg. Description:	_____	Max. Span:	_____
Bldg. Dimensions:	_____	Bldg. Sq. Ft.	_____

Roof Slope:	____ / 12	_____ Degrees	
Truss Span:	_____	Cantilever: _____	Lap at Centre over 2x4 2x6
Heel Cut:	_____	Heel Height: _____	Overhang: _____
Spacing:	24" o/c	48" o/c	Other _____

Top Chord Lateral Restraint:	Continuous	Sheathed Roof (Plywood/OSB)
	Roof Purlins	Spacing _____ (Max. 24" o/c)

Bottom Chord Lat. Restraint:	Continuous	Sheathed Ceiling (Plywood/OSB)
	Strapping/Purlins	Spacing _____ (Max. 10' o/c)

Location:	Manitoba	Sask.	Ontario	Other: _____
Bldg. Site Area Letter:	_____	Ss= _____		Sr= _____
Drifting Snow (Ca):	No		Yes _____	
Roof Construction (Cs):	Shingle Roof		Unobstructed Metal Roof	
Wind Exposure Factor (Cw):	Sheltered (Cw=1.0)		Exposed (Cw=0.75)	
Insulated Ceiling:	No		Yes	
Wind Loading Notes:	_____			

Bldg. Classification:	Farm	Commercial	Residential
Low Human Occupancy:	No	Yes	
Importance Category (Is):	Low	Normal	High Post-Disaster
Bldg. Code/Section:	1995 Farm	2005 Part4	2005 Part9
Engineer of Record:	No	Yes _____	

Check Quantity:	_____	Lab. Amt.	_____	Truss Tie-Downs	_____
Remarks:	_____				