

## Specification Sheet for Truss Designer

(For use with Winter Feeders with 12' Posts and 3/12 Pitch Roofs)

**Instructions:** This form shall be completed by the NRCS Representative and provided to the landowner for submittal to the truss manufacturer. A copy of the approved drawings shall also be provided to the truss manufacturer for design of the trusses. A copy of the truss certification (sealed by a professional engineer licensed in Georgia) shall be provided to the NRCS Representative prior to installation of the trusses.

### Basic Data

Project/Landowner: \_\_\_\_\_

Location (County): \_\_\_\_\_

### Building Geometry

Span (outside wall to outside wall) \_\_\_\_\_ ft

Building Length \_\_\_\_\_ ft

Truss Spacing 5 ft O.C.

Top Chord Pitch 3/12

Roof Purlin Spacing 24 in O.C.

Overhang 18 in

Mean Roof Height 14.5 ft

Endwall\* yes

\* All trusses, including the endwall, shall be flat bottom type.

### Design Loads (computed in accordance with IBC 2006 and ASCE 7-05)

Type Structure	Open
Exposure Category	C
Minimum Roof Live Load	20 psf
Basic Wind Speed	See Page 1 of Attached Drawings
Importance Factor	0.87 (0.77 for 110-130 mph wind zones)
Gust Effect Factor (G):	0.85
Internal pressure Coefficient (GCpi)	0.00

Net Pressure Coefficients ( $C_N$ ):

WINDS TRANSVERSE TO STRUCTURE				
LOAD CASE	CLEAR WIND FLOW		OBSTRUCTED WIND FLOW	
	CNW	CNL	CNW	CNL
A	1.1	-0.4	-1.2	-1
B	0.1	-1.1	-0.6	-1.6

WIND LONGITUNINAL TO STRUCTURE			
HORIZONTAL DISTANCE FROM EDGE	LOAD CASE	CLEAR WIND FLOW	OBSTRUCTED WIND FLOW
< or = 14.5'	A	-0.8	-1.2
	B	0.8	0.5
> 14.5 and > or = 29'	A	-0.6	-0.9
	B	0.5	0.5
> 29'	A	-0.3	-0.6
	B	0.3	0.3

(minus signs signify pressures acting away from surfaces)

Dead Load

29 Gauge Galvanized Roofing	0.75 psf
Purlins (top chord only)	0.85 psf
Bracing (estimated)	1.0 psf
Deflection Limit (D + L)	l/180

**Truss Connections**

See attached drawings for details