

MILWOOD GROUP - SIMPLICITY 16 - DESIGN LOAD ESTIMATION

The following information is a rough guide to assess the loading based on the pertinent factors. However, when standards (building regs.) apply it is required that individual sites are treated specifically and where appropriate structural calculations are made by a Structural Engineer.

1 SEE NOTES

SELECT	2 EXPOSURE CATEGORY (ground roughness) 4: City centres. Numerous large obstructions (no funnelling). 3: Average country side, city outskirts, small towns. Many wind breaks. 2: Open country minimal wind breaks. 1: No wind breaks. Flat open country. Coastal regions.
--------	---

3 DESIGN LOAD **WIND** (adjusted for dead load)

SELECT WIND SPEED FROM MAP	WIND SPEED M/S from map or post code or grid reference	EXPOSURE CATEGORY			
		4	3	2	1
	38	0.5	0.5	0.6	1.0
	40	0.5	0.5	0.6	1.0
	42	0.5	0.5	0.6	1.0
	44	0.5	0.5	0.8	1.0
	46	0.5	0.6	0.8	1.0
	48	0.5	0.6	0.8	1.2
	50	0.5	0.8	1.0	1.2

Value (K/N) from table applicable for use with Span Charts only

4 DESIGN LOAD **SNOW** (adjusted for dead load and roof style)

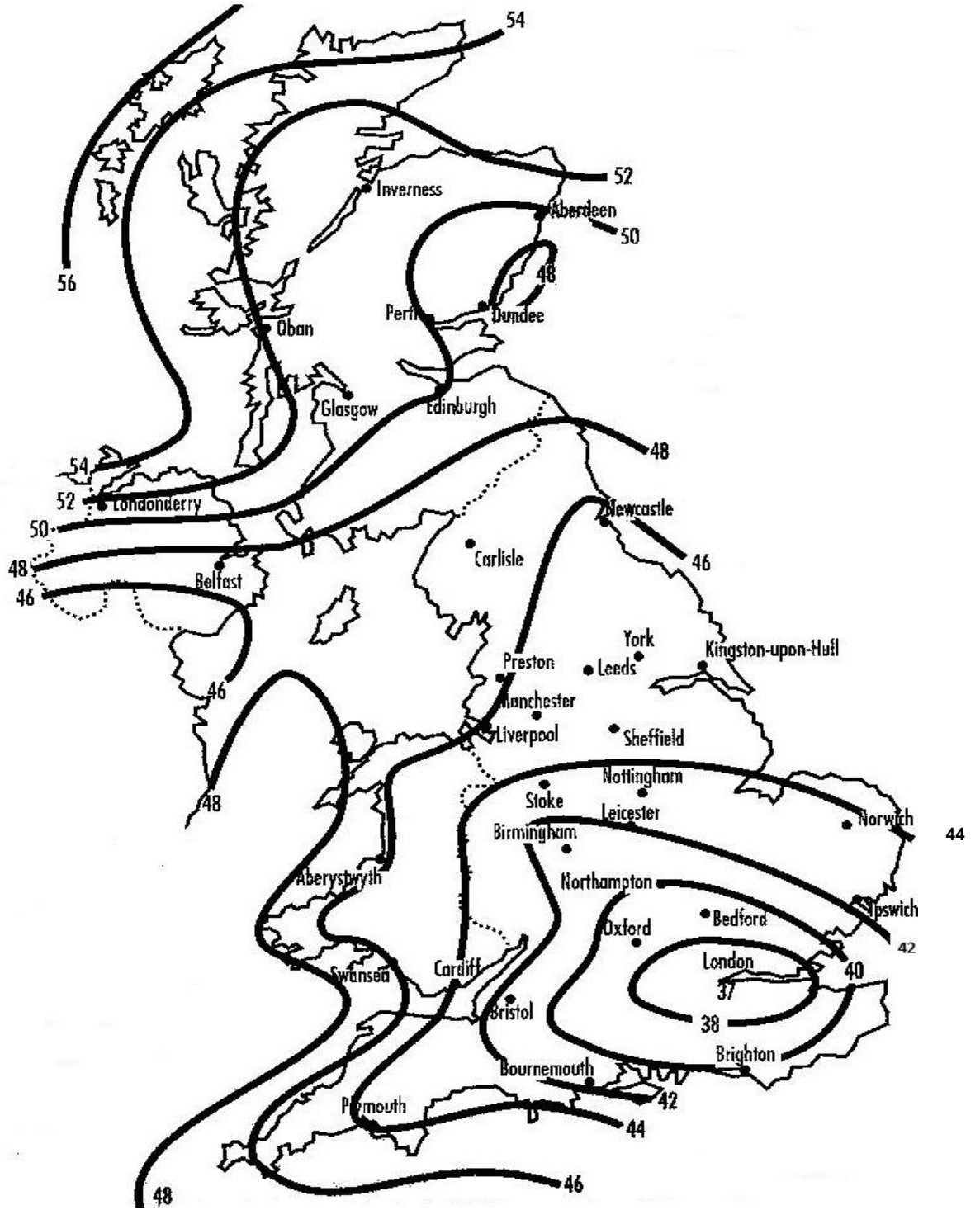
CHECK MAP TO CONFIRM SNOW LOAD LOWER THAN WIND.....	BASIC SNOW LOAD from map or post code or grid reference	IMPOSED LOAD
		0.6
0.8	0.6	
1.0	0.8	
1.2	refer	

Where the snow load exceeds the wind load, the higher value must be used.

NOTES:
 For abnormal exposure and/or loadings contact Head Office.
 Maximum Site Altitude 100 m
 Maximum Ridge Height 5m from the ground
 Glazed with 35 mm polycarbonate multi-wall sheet
 Dead Load and Snow Load or Wind Load must not exceed the Design Load.
 Valley models-refer to Head Office
 Specific site conditions apply
 Information is not for use outside England, Scotland and Wales

5 From SPAN CHARTS find maximum span for unsupported profiles at varying glazing centres

WIND



SNOW



**16 DOMESTIC CANOPY
ROOF GLAZING BAR**

SPAN TABLES

NOT PERMITTED. REFER TO HEAD OFFICE
ONLY SUITABLE IN SHELTERED AREA

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 500 MM CENTRES MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	4,531	4,212	3,968	3,773	3,613	3,359	3,750
0.60	4,268	3,968	3,739	3,556	3,404	3,166	3,750
0.80	3,885	3,613	3,402	3,238	3,100	2,884	3,500
1.00							

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 600 MM CENTRES MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	4,268	3,968	3,739	3,556	3,404	3,166	3,750
0.60	4,021	3,739	3,523	3,351	3,208	2,984	3,500
0.80	3,661	3,404	3,208	3,052	2,922	2,718	3,400
1.00							

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 700 MM CENTRES MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	4,059	3,773	3,556	3,382	3,238	3,011	3,500
0.60	3,824	3,556	3,351	3,052	3,052	2,839	3,500
0.80	3,482	3,238	3,052	2,903	2,780	2,586	3,200
1.00							

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 800 MM CENTRES MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	3,885	3,613	3,404	3,238	3,100	2,884	3,500
0.60	3,661	3,404	3,208	3,052	2,922	2,718	3,400
0.80	3,334	3,100	3,922	2,780	2,662	2,477	3,000
1.00							

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 1000 MM CENTRES MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	3,613	3,359	3,166	3,011	2,884	2,683	3,350
0.60	3,404	3,166	2,984	2,839	2,718	2,529	3,150
0.80	3,100	2,884	2,718	2,586	2,477	2,305	2,800
1.00							

16 DOMESTIC CANOPY

EAVES GUTTER - MAXIMUM SPAN BETWEEN C/L POSTS

brackets?

NOT SUITABLE REFER TO HEAD OFFICE
 ONLY SUITABLE IN SHELTERED AREA

LOAD KN SQM	DEFLECTION CRITERIA			AT 3750 MM DEEP MAXIMUM UNSUPPORTED SPAN			
		125	150	175	200	250	
0.50	3,035	2,823	2,661	2,532	2,425	2,257	2,800
0.60	2,861	2,661	2,509	2,388	2,278	2,129	2,600
0.80	2,607	2,425	2,287	2,177	2,085	1,942	2,400
1.00							

LOAD KN SQM	DEFLECTION CRITERIA			AT 3500 MM DEEP MAXIMUM UNSUPPORTED SPAN			
		125	150	175	200	250	
0.50	3,104	2,877	2,722	2,589	2,480	2,308	2,850
0.60	2,926	2,722	2,566	2,441	2,338	2,177	2,700
0.80	2,665	2,480	2,338	2,225	2,132	1,985	2,850
1.00							

LOAD KN SQM	DEFLECTION CRITERIA			AT 3250 MM DEEP MAXIMUM UNSUPPORTED SPAN			
		125	150	175	200	250	
0.50	3,197	2,957	2,788	2,652	2,540	2,364	2,950
0.60	2,997	2,788	2,628	2,500	2,395	2,229	2,780
0.80	2,730	2,540	2,395	2,279	2,183	2,033	2,500
1.00							

LOAD KN SQM	DEFLECTION CRITERIA			AT 3000 MM DEEP MAXIMUM UNSUPPORTED SPAN			
		125	150	175	200	250	
0.50	3,263	3,035	2,861	2,722	2,607	2,425	3,000
0.60	3,076	2,861	2,697	2,566	2,458	2,287	2,800
0.80	2,802	2,607	2,485	2,338	2,240	2,085	2,450
1.00							

LOAD KN SQM	DEFLECTION CRITERIA			AT 2750 MM DEEP MAXIMUM UNSUPPORTED SPAN			
		125	150	175	200	250	
0.50	3,357	3,122	2,943	2,799	2,681	2,494	3,000
0.60	3,164	2,943	2,774	2,639	2,528	2,352	2,900
0.80	2,882	2,681	2,528	2,405	2,384	2,144	2,650
1.00							

EAVES GUTTER - MAXIMUM SPAN BETWEEN C/L POSTS

NOT SUITABLE REFER TO HEAD OFFICE
 ONLY SUITABLE IN SHELTERED AREA

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 2500 MM DEEP MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	3,463	3,220	3,035	2,887	2,765	2,572	3,200
0.60	3,263	3,035	2,861	2,722	2,607	2,425	3,000
0.80	2,972	2,765	2,607	2,480	2,376	2,211	2,750
1.00							

LOAD KN SQM	<u>DEFLECTION CRITERIA</u>			AT 2250 MM DEEP MAXIMUM UNSUPPORTED SPAN			
	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>250</u>	
0.50	3,584	3,332	3,141	2,987	2,861	2,661	3,300
0.60	3,377	3,141	2,960	2,816	2,697	2,509	3,100
0.80	3,076	2,861	2,697	2,566	2,458	2,287	2,850
1.00							