Technical Information - Wind & Snow Loadings

The Simplicity 6

MILWOOD GROUP - SIMPLICITY 6 - DESIGN LOAD ESTIMATION **GLASS**

MAY 2017 EAVE GUTTER WITH CLIP ON COVERS PROFILE

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……

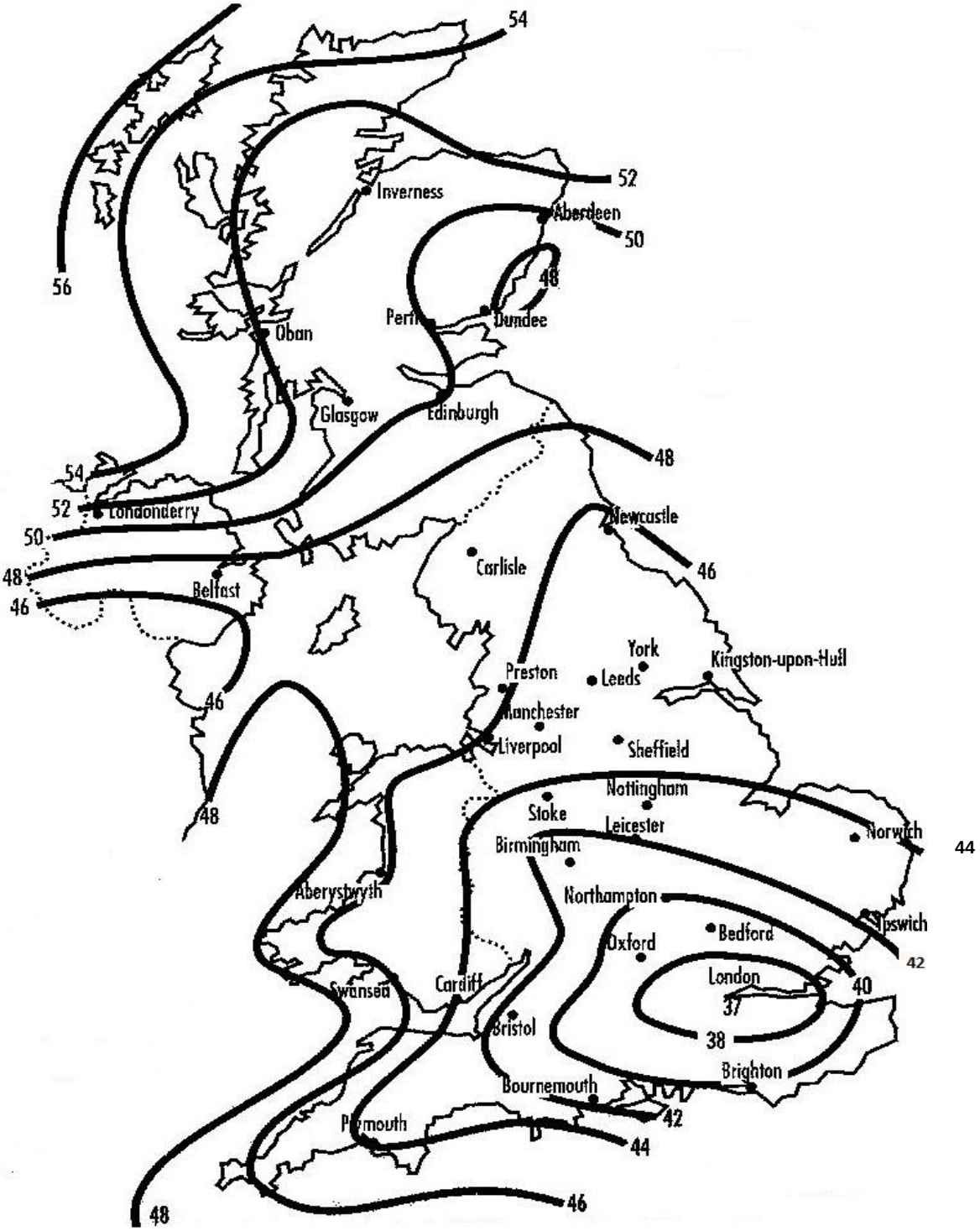
BASIC SNOW LOAD from map or post code or grid reference	IMPOSED LOAD GLASS
0.6	**0.55**
0.8	**0.70**
0.9	**0.80**
1.0	**refer**

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 Altitude100 m
Maximum Ridge Height 5m from the ground
Glazed with glass
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 unsuported profiles at varying glazing centres

WIND


54
52
50
48
46
56
Inverness
Aberdeen
Oban
Perth
Dundee
Glasgow
Edinburgh
Londonderry
Belfast
Carlisle
Newcastle
York
Kingston-upon-Hull
Preston
Leeds
Manchester
Liverpool
Sheffield
Nottingham
Stoke
Leicester
Norwich
Birmingham
44
Aberystwyth
Northampton
Ipswich
Bedford
Oxford
42
London
40
37
38
Swansea
Cardiff
Bristol
Brighton
Bournemouth
Plymouth

SNOW


0.6
0.6
0.5
0.8
1.0
0.6
Inverness
0.8
1.0
Aberdeen
0.4
Perth
Dundee
Oban
Glasgow
Edinburgh
0.8
0.8
Newcastle
0.5
Londonderry
0.5
Carlisle
0.4
Belfast
0.4
0.5
0.4
0.6
0.8
0.4
0.5
York
0.4
Preston
Leeds
Kingston-upon-Hull
Manchester
Liverpool
Sheffield
0.6
Nottingham
Stoke
Leicester
Norwich
Birmingham
0.5
0.5
Aberystwyth
0.5
0.6
Northampton
0.4
0.3
Oxford
Bedford
Ipswich
Swansea
Cardiff
London
0.4
Bristol
0.5
0.3
Brighton
Bournemouth
0.4
Plymouth
0.3
0.4

16 DOMESTIC CANOPY
ROOF GLAZING BAR **SPAN TABLES**

NOT PERMITED. REFER TO HEAD OFFICE

AT 500 MM CENTRES

LOAD KN SQM	DEFLECTION CRITERIA	MAXIMUM UNSUPPORTED SPAN		
		175	200	250
0.50			3,850	3,575
0.60			3,620	3,360
0.70			3,445	3,195
0.80			3,290	3,060

AT 600 MM CENTRES

LOAD KN SQM	DEFLECTION CRITERIA	MAXIMUM UNSUPPORTED SPAN		
		175	200	250
0.50			3,625	3,365
0.60			3,410	3,165
0.70			3,240	3,010
0.80			3,100	3,875

AT 700 MM CENTRES

LOAD KN SQM	DEFLECTION CRITERIA	MAXIMUM UNSUPPORTED SPAN		
		175	200	250
0.50			3,445	3,200
0.60			3,240	3,010
0.70			3,080	2,855
0.80			2,945	2,875

AT 800 MM CENTRES

LOAD KN SQM	DEFLECTION CRITERIA	MAXIMUM UNSUPPORTED SPAN		
		175	200	250
0.50			3,295	3,055
0.60			3,100	2,875
0.70			2,945	2,735
0.80			2,815	2,616

AT 1000 MM CENTRES

LOAD KN SQM	DEFLECTION CRITERIA	MAXIMUM UNSUPPORTED SPAN		
		175	200	250
0.50				
0.60				
0.70				
0.80				

16 DOMESTIC CANOPY
EAVES GUTTER - MAXIMUM SPAN BETWEEN C/L POSTS

	WITHOUT INFILL		**WITH INFILL**	
			AT 3500 MM DEEP	
LOAD KN SQM	DEFLECTION CRITERIA		MAXIMUM UNSUPPORTED SPAN	
	200	250	200	250
0.50	3,045	2,830	3,250	3,010
0.60	2,865	2,660	3,050	2,830
0.70	2,720	2,525	2,890	2,690
0.80	2,600	2,415	2,770	2,570
			AT 3250 MM DEEP	
LOAD KN SQM	DEFLECTION CRITERIA		MAXIMUM UNSUPPORTED SPAN	
	200	250	200	250
0.50	3,120	2,900	3,320	3,085
0.60	2,935	2,725	3,125	2,900
0.70	2,790	2,590	2,970	2,775
0.80	2,670	2,475	2,840	2,635
			AT 3000 MM DEEP	
LOAD KN SQM	DEFLECTION CRITERIA		MAXIMUM UNSUPPORTED SPAN	
	200	250	200	250
0.50	3,200	2,975	3,410	3,170
0.60	3,015	2,800	3,210	2,982
0.70	2,865	2,660	3,050	2,830
0.80	2,740	2,545	2,710	2,915
			AT 2750 MM DEEP	
LOAD KN SQM	DEFLECTION CRITERIA		MAXIMUM UNSUPPORTED SPAN	
	200	250	200	250
0.50	3,300	3,065	3,510	3,260
0.60	3,105	2,880	3,305	3,070
0.70	2,950	2,740	3,140	2,915
0.80	2,820	2,620	3,000	2,790
			AT 2500 MM DEEP	
LOAD KN SQM	DEFLECTION CRITERIA		MAXIMUM UNSUPPORTED SPAN	
	200	250	200	250
0.50	3,400	3,160	3,625	3,365
0.60	3,205	2,975	2,410	3,165
0.70	3,050	2,830	3,240	3,010
0.80	2,910	2,705	3,100	2,890