

SUBJECT Roof Loads to BS6399

Roof Loads - Unfactored kN/m^2

Roof Dead	Slates / tiles	0.60	/	Pitch	=	33 deg	
	Felt / battens / ins	0.05	/	Plan load	=	/cos	
	Rafters	0.15	/	Plan load	= 1.0	kN/m^2	
	Purlins	0.05	/				
	Cladding/decking	0.10					
	Trussed Rafters	0.30		Plasterboard + Skim	0.15	/	
				Services - domestic	0.05	/	
				Services - office	0.15		
				Ceiling joists	0.10	/	
	Slope load	<u>0.85</u>	kN/m^2				
			kN/m^2				
				Total for pitched roof	<u>0.30</u>	kN/m^2	

Total Pitched Roof Dead Load = $1.0 + 0.30 = 1.30 \text{ kN/m}^2$
Total Extension Dead Load = $1.0 + 0.20 = 1.20 \text{ kN/m}^2$

Roof Live	Pitch 60 deg	0.00		Snow Load	Pitch 60 deg	0.00	
	Pitch 50 deg	0.20		Small Building Snow	Pitch 50 deg	0.25	
0.6 kN/m²	Pitch 45 deg	0.30		Load 0.75 kN/m^2	Pitch 45 deg	0.38	
	Pitch 40 deg	0.40		less than 200m ² on	Pitch 40 deg	0.50	
	Pitch 35 deg	0.50		Plan	Pitch 35 deg	0.53	
	Pitch 30 deg	0.60	/		Pitch 30 deg	0.60	/
	Roof Live Load	<u>0.6</u>	kN/m^2	Snow Load	<u>0.6</u>	kN/m^2	

Or Calculated snow loading, shL5. _____

Ceiling maint 0.25 / kN/m^2
 Alt ceil maint 1.5 / kN/m^2

Total Pitched Roof Live Load = $0.6 + 0.25 = 0.85 \text{ kN/m}^2$
Total Extension Roof Live Load = 0.6 kN/m^2

On extension roof say 0.8 kN/m^2 to allow for build up of snow against existing wall.