rothoblaas | Solutions for Building Technology

DGZ/HBS – CONSULTING SERVICE REQUEST FOR ROOF INSULATION

For an efficient turnaround please provide as much information as possible

Applicant	☐ Designer	☐ Private client	☐ Construction company
Company name		Surname/last name	
Phone		Address	
E-mail		Date	

Project		Address	
		Rothoblaas Representative	

CONNECTOR TYPE		
☐ DGZ Double threaded screw for roof insulation	☐ Ø0.28" | 7mm	☐ Ø0.36" | 9mm
☐ HBS* Countersunk screw (alternative solution)	☐ Ø0.24" | 6mm	☐ Ø0.32" | 8mm
☐ Connector choice by Rothoblaas consultant		

**The insulation compressive strength at 10% value must be higher than 7.25 psi (50 kPa)*

Load on the roof	**SYMBOL**	**VALUE**	**UNIT**
Dead load (permanent load of roof)[1]	$f_{k,s}$		lb/ft.^{2} (psf)
Wind load (suction)[2]	$w_{k,s}$		lb/ft.^{2} (psf)
Snow load[3]	$s_{k,s}$		lb/ft.^{2} (psf)
Geometry of the roof	**SYMBOL**	**VALUE**	**UNIT**
Roof pitch	*rise:span*		:12
Roof total area (insulated surface)	A_f		ft. ^{2}
Rafter dimension (section)	b_T / h_T		in.
Wood type or class[4]			
Sheating thickness	S_1		in.
Insulation thickness	S_2		in.
Insulation density	ρ insulation		lb/ft.^{3}
Insulation compression resistance	$\sigma_{c\ 10\%}$		lbf/in.^{2}
Batten dimension (section)	b_L / h_L		in.
Batten/rafter span (spacing)	i		in.
Standard batten length[5]	$h_{st,L}$		ft.
Total batten length on the roof	h_L		ft.
Wood type or class[4]			

On the next page you can find a pattern diagram with the symbols. Please send to us also a .dwg or pdf drawing to understand better the roof.

NOTE:

[1] If not specified, **a dead load of 24 lb/ft.^{2}** is considered
[2] If not specified, **a wind load of 20 lb/ft.^{2}** is considered
[2] If not specified, **a snow load of 40 lb/ft.^{2}** is considered
[4] If not specified, **Spruce-Pine-Fir** will be considered as type of wood used
[5] If not specified, the standard length of batten will be considered equal to the total batten length.

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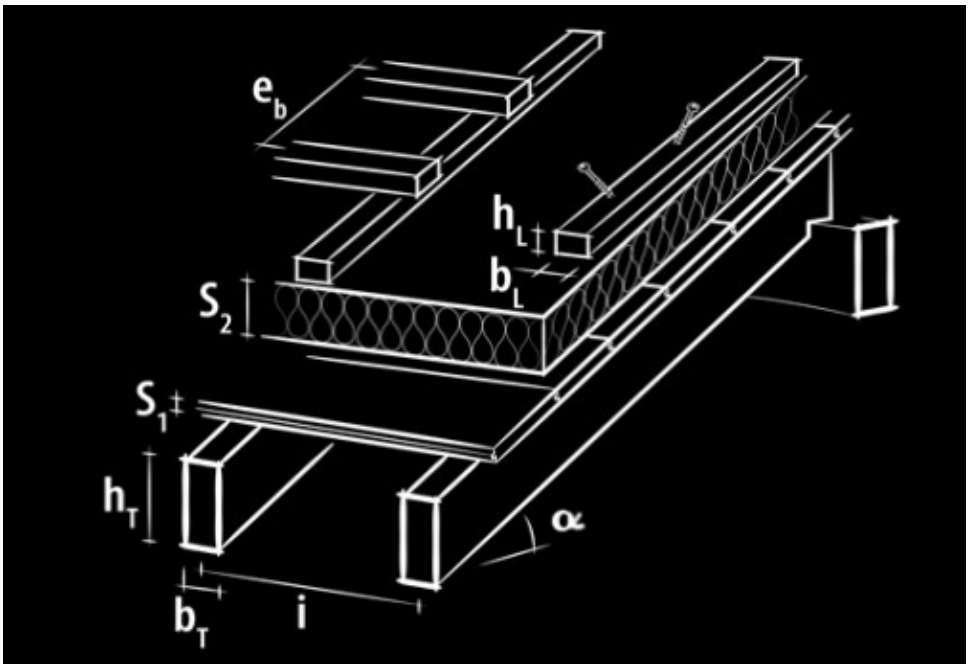
PATTERN AND SYMBOLS



LEGEND	
b_T	Width of the rafter
h_T	High of the rafter
b_L	Width of the batten
h_L	High of the batten
i	Span (space between the battens)
S_1	Sheathing thickness
S_2	Insulation thickness
A_f	Roof area (surface to insulate)

Rotho Blaas USA Inc.
Technical department