

Declaration of Performance

- Reference: FALK GEVEL 1060 WB 1.1 (M/L)
- Metal faced insulation panel for use in buildings.
- Type: FALK GEVEL 1060 WB
- FALK Bouwsystemen B.V.
Neonstraat 23
6718 WX Ede
The Netherlands
- Not relevant
- System 3
- Efectis Nederland B.V (no. 1234) Afiti Licof (no. 1168)
- Not relevant



9. Declared values

Thickness:	60	80	100	120	140	160	0	[mm]	Harmonised Technical Specification:	
Mass:	10,4	11,2	11,9	12,7	13,5	14,2	#N/B	[kg/m ²]	EN 14509:2013	
Tensile strength:	0,06	0,06	0,06	0,06	0,06	0,06	#N/B	[Mpa]	EN 14509:2013	
Shear strength (core):	0,15	0,14	0,13	0,11	0,09	0,07	#N/B	[Mpa]	EN 14509:2013	
Shear modulus (core):	3,40	3,40	3,40	3,12	2,84	2,56	#N/B	[Mpa]	EN 14509:2013	
Compressive strength (core):	0,1	0,1	0,1	0,1	0,1	0,1	#N/B	[Mpa]	EN 14509:2013	
Long-term shear strength:	0,06	0,055	0,05	0,042	0,034	0,026	#N/B	[Mpa]	EN 14509:2013	
Creep factor:										
t = 2000 h	2,2	2,2	2,2	2,2	2,2	2,2	#N/B	[-]	EN 14509:2013	
t = 100.000 h	4,0	4,0	4,0	4,0	4,0	4,0	#N/B	[-]	EN 14509:2013	
Wrinkling stresses external sheet:										
span:	180	184	187	191	194	198	#N/B	[Mpa]	EN 14509:2013	
span (high temp.):	144	139	133	128	122	117	#N/B	[Mpa]		
central support:	153	156	159	162	165	168	#N/B	[Mpa]		
central support (high temp.):	122	117	111	106	100	95	#N/B	[Mpa]		
Wrinkling stresses internal sheet:										
span:	147	147	147	147	147	147	#N/B	[Mpa]	EN 14509:2013	
span (high temp.):	118	118	118	118	118	118	#N/B	[Mpa]	EN 14509:2013	
Bending moment (external):										
span:	4,97	6,75	8,60	10,52	12,49	14,54	#N/B	[kNm/m]	EN 14509:2013	
span (high temp.):	3,97	5,10	6,12	7,04	7,86	8,57	#N/B	[kNm/m]		
central support:	4,22	5,74	7,31	8,94	10,63	12,36	#N/B	[kNm/m]		
central support (high temp.):	3,37	4,29	5,11	5,82	6,44	6,96	#N/B	[kNm/m]		
Bending moment (internal):										
span:	3,18	4,23	5,29	6,35	7,41	8,47	#N/B	[kNm/m]	EN 14509:2013	
span (high temp.):	2,55	3,40	4,25	5,10	5,95	6,80	#N/B	[kNm/m]	EN 14509:2013	
Thermal conductivity:										
Roof:	0,364	0,271	0,216	0,179	0,153	0,134	#N/B	[W/(m ² .K)]	EN 14509:2013	
External wall:	0,360	0,269	0,214	0,178	0,152	0,133	#N/B	[W/(m ² .K)]		
Partition wall:	0,348	0,262	0,210	0,175	0,150	0,131	#N/B	[W/(m ² .K)]		
Material properties external sheet:										
Steel quality:	S280GD + ZN							#N/B	[W/(m ² .K)]	EN 10346
Steel thickness:	min. 0,5 mm							#N/B	[W/(m ² .K)]	EN 10346
Coating:	HPS200 ULTRA, PRISMA, Strike 200, Polyester 25mu							#N/B	[W/(m ² .K)]	EN 10169
Material properties internal sheet:										
Steel quality:	S280GD + ZN							#N/B	[W/(m ² .K)]	EN 10346
Steel thickness:	min. 0,4 mm							#N/B	[W/(m ² .K)]	EN 10346
Coating:	Polyester 25mu, FOODSafe, Agricoat, HPS200 ULTRA							#N/B	[W/(m ² .K)]	EN 10169
Fire resistance:										
E (integrity):	E30	E60	E60	E60	E60	E60	#N/B	[-]	EN 13501-2:2007	
EI (integrity & Insulation):	[-]	[-]	EI30	EI30	EI30	EI60	#N/B	[-]		
EW (integrity & radiation):	EW30	EW60	EW60	EW60	EW60	EW60	#N/B	[-]		
Reaction to fire:										
Reaction to fire:	B-S1-D0							#N/B	[-]	EN 13501-1:2007
Other material properties (general):										
Density:	38							#N/B	[kg/m ³]	EN 14509:2013
Water permeability:	NPD							#N/B	[-]	EN 14509:2013
Air permeability:	n= 0,93	0,93	0,93	0,93	0,93	0,93	#N/B	[-]	EN 14509:2013	
	c= 0,00052	0,00052	0,00052	0,00052	0,00052	0,00052	#N/B	[dm ³ /s.m ¹ .Pa ⁻¹]	EN 14509:2013	
Water vapour permeability:	NPD							#N/B	[-]	EN 14509:2013
Airborne sound insulation:	NPD							#N/B	[-]	EN 14509:2013
Dimensional tolerance:	"Passed"							#N/B	[-]	EN 14509:2013
Durability:	"Passed"							#N/B	[-]	EN 14509:2013
Resistance to point loads:	NPD							#N/B	[-]	EN 14509:2013
Dangerous substances:	NPD							#N/B	[-]	EN 14509:2013

Signed on behalf and in name of FALK Bouwsystemen B.V.

Arie van Ravenhorst
Ede, november 2021

