

# SuperFOIL

## IWI Timber Frame Wall Solutions (with Reflective Breather Membrane)

This guide is designed to demonstrate possible solutions achievable with SuperFOIL both on its own and combined with other insulation products. The results listed are based on set constructions as described in the charts. We would be happy to confirm suitability of any solution for use in your project, please get in touch and our expert technical team can provide bespoke u-value calculations using Government approved software.

Tel : 01636 639 900  
Email : Technical@superfoil.co.uk

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved													
				SuperFOIL Only Solution (No Other insulation required)	Glass wool 0.044												
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud				
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm						
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.22	0.2	0.18	0.17	0.15	0.14	0.14	0.13	0.12	0.11	0.11	0.1	0.1
	SF40		50mm	0.2	0.18	0.17	0.15	0.14	0.14	0.13	0.12	0.11	0.11	0.1	0.1	0.1	0.1
	SF60		63mm	0.16	0.15	0.14	0.13	0.13	0.12	0.11	0.11	0.1	0.1	0.1	0.09	0.09	0.09

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved													
				SuperFOIL Only Solution (No Other insulation required)	Glass wool 0.04												
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud				
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm						
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.22	0.19	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.1	0.1	0.1
	SF40		50mm	0.2	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.1	0.1	0.1	0.09	
	SF60		63mm	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.1	0.1	0.09	0.09	0.09	0.08	

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved												
				SuperFOIL Only Solution (No Other insulation required)	Glass wool 0.037											
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud			
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm					
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.21	0.19	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.1
	SF40		50mm	0.2	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.1	0.09	0.09
	SF60		63mm	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.1	0.09	0.09	0.08	0.08

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved												
				SuperFOIL Only Solution (No Other insulation required)	Glass wool 0.035											
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud			
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm					
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.21	0.19	0.17	0.16	0.14	0.13	0.13	0.12	0.11	0.1	0.1	0.1
	SF40		50mm	0.2	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.09	0.09	0.09
	SF60		63mm	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.1	0.1	0.09	0.08	0.08

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved												
				SuperFOIL Only Solution (No Other insulation required)	Glass wool 0.032											
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud			
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm					
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.21	0.19	0.17	0.15	0.14	0.13	0.12	0.11	0.11	0.1	0.1	0.1
	SF40		50mm	0.2	0.18	0.16	0.15	0.13	0.12	0.12	0.11	0.1	0.1	0.09	0.09	0.08
	SF60		63mm	0.16	0.15	0.14	0.13	0.12	0.11	0.1	0.1	0.09	0.09	0.08	0.08	0.08

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved												
				SuperFOIL Only Solution (No Other insulation required)	PIR 0.022											
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud			
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm					
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.2	0.17	0.15	0.14	0.13	0.11	0.1	0.1	0.09	0.09	0.08	0.08
	SF40		50mm	0.2	0.17	0.15	0.13	0.12	0.11	0.1	0.1	0.09	0.08	0.08	0.08	0.07
	SF60		63mm	0.16	0.15	0.13	0.12	0.11	0.1	0.09	0.09	0.08	0.08	0.07	0.07	0.07

Solution Type	SuperFOIL Product	Build Up	Batten Size	U-Value Achieved												
				SuperFOIL Only Solution (No Other insulation required)	Phenolic 0.019											
					89mm Stud		140mm Stud		184mm Stud		235mm Stud		235+mm Stud			
25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm					
Internal Insulation Solutions	SF19+	External Cladding > Batten > REFLECTIVE Breather Membrane > 9mm OSB > Studs (with stated insulation between) > SuperFOIL > Batten > Plasterboard	38mm	0.24	0.2	0.17	0.15	0.13	0.12	0.11	0.1	0.09	0.09	0.08	0.08	0.07
	SF40		50mm	0.2	0.17	0.15	0.13	0.12	0.11	0.1	0.09	0.08	0.08	0.08	0.07	0.07
	SF60		63mm	0.16	0.14	0.13	0.11	0.1	0.1	0.09	0.08	0.08	0.07	0.07	0.07	0.06

Notes :