



Certificate No: E1-FB-2018 Issued : 11 February 2022

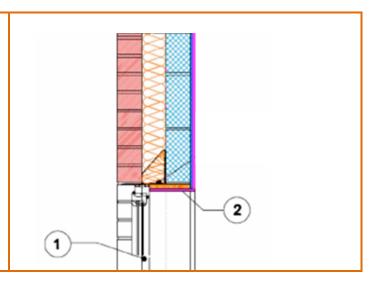
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Steel lintel with perforated base plate (Table K1 Ref E1)

Calculated Ψ-value 0.263 – 0.289 W/mK

Key Points

- 1. Minimum frame overlap to be 30mm
- 2. Install insulation to soffit 25mm λ =0.022



Calculated ψ -values and f-values

Cavity Insulation	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.273	0.895
150mm λ=0.032	0.285	0.882
50mm λ=0.022 (+ 50mm low e cavity)	0.263	0.895
100mm λ=0.022 (+ 50mm low e cavity)	0.289	0.882



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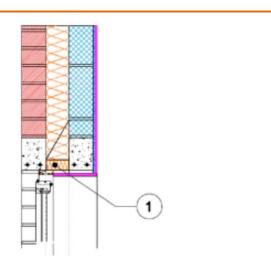
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Independent Concrete lintel (Table K1 Ref E2)

Calculated Ψ -value = 0.034 - 0.042 W/mK

Key Points

- 1. Close cavity with insulated cavity closer λ=0.034
- 2. Minimum frame overlap to be 30mm



Calculated ψ -values and f-values

Cavity Insulation	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
	Ψ-value W/m·k <i>f</i> -value	
100mm λ=0.032	0.034	0.898
150mm λ=0.032	0.036	0.893
50mm λ=0.022 (+ 50mm low e cavity)	0.040	0.890
100mm λ=0.022 (+ 50mm low e cavity)	0.042	0.886



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Sill (Table K1 Ref E3)
Calculated Ψ-value = 0.022 – 0.034 W/mK

Key Points

- Install a proprietary cavity closer (see options below)
- 2. Minimum frame overlap to be 30mm



Thermabate cavity closer*	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.022	0.884
150mm λ=0.032	0.026	0.881
50mm λ=0.022 (+ 50mm low e cavity)	0.025	0.874
100mm λ=0.022 (+ 50mm low e cavity)	0.034	0.866

Cavalok cavity closer*	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.022	0.882
150mm λ=0.032	0.027	0.877
50mm λ=0.022 (+ 50mm low e cavity)	0.022	0.878
100mm λ=0.022 (+ 50mm low e cavity)	0.032	0.873

^{*}Following manufacturer's installation guidelines for cavity closer



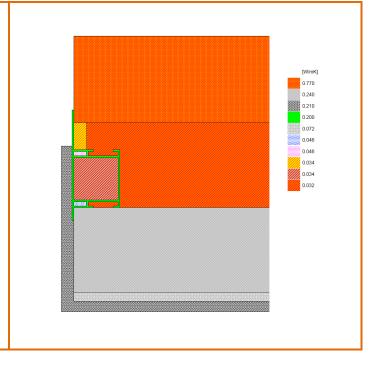
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Jamb (Table K1 Ref E4)
Calculated Ψ-value = 0.024 – 0.039 W/mK

Key Points

- Install a proprietary cavity closer (see options below)
- 2. Minimum frame overlap to be 30mm



Thermabate cavity closer*	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.024	0.880
150mm λ=0.032	0.031	0.876
50mm λ=0.022 (+ 50mm low e cavity)	0.030	0.869
100mm λ=0.022 (+ 50mm low e cavity)	0.039	0.865

Cavalok cavity closer*	Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.027	0.876
150mm λ=0.032	0.033	0.871
50mm λ=0.022 (+ 50mm low e cavity)	0.029	0.871
100mm λ=0.022 (+ 50mm low e cavity)	0.038	0.867

^{*}Following manufacturer's installation guidelines for cavity closer



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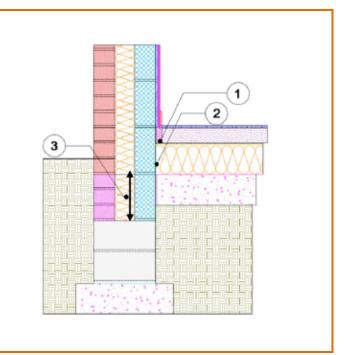
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Solid concrete ground floor – insulation above slab (Table K1 Ref E5)

Calculated Ψ -value = 0.057 - 0.068 W/mK

Key Points

- 1. Install perimeter edge insulation λ =0.022
- 2. Ensure the floor insulation abuts the external wall
- Continue the cavity wall insulation a minimum of 125mm below the top of the slab



Cavity wall insulation	100mm Floor insulation (λ=0.022)	
	Ψ-value W/m·k f-value	<i>f-</i> value
100mm λ=0.032	0.068	0.850
150mm λ=0.032	0.063	0.929
50mm λ=0.022 (+ 50mm low e cavity)	0.057	0.842
100mm λ=0.022 (+ 50mm low e cavity)	0.063	0.930

Cavity wall insulation	150mm Floor insulation (λ=0.022)	
·	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.072	0.920
150mm λ=0.032	0.063	0.929
50mm λ=0.022 (+ 50mm low e cavity)	0.064	0.917
100mm λ=0.022 (+ 50mm low e cavity)	0.063	0.930



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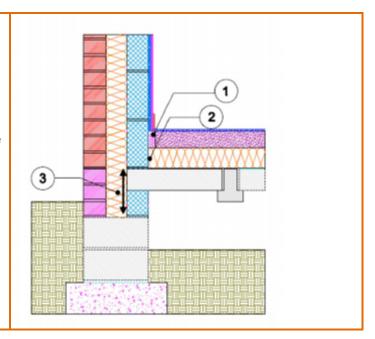
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Suspended beam and block floor – insulation above (Table K1 Ref E5)

Calculated Ψ -value = 0.060 - 0.062 W/mK

Key Points

- 1. Install perimeter edge insulation λ =0.022
- 2. Ensure the floor insulation abuts the external wall
- Continue the cavity wall insulation a minimum of 225mm below the top of the floor block



Calculated ψ-values and f-values

100mm Floor insulation (λ=0.022) Beams perpendicular to external wall (worst case)			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	0.061	0.926	
150mm λ=0.032	0.060	0.932	
50mm λ=0.022 (+ 50mm low e cavity)	0.060	0.924	
100mm λ=0.022 (+ 50mm low e cavity)	0.060	0.933	

Calculated ψ -values and f-values

150mm Floor insulation (λ=0.022) Beams perpendicular to external wall (worst case)			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	0.062	0.931	
150mm λ=0.032	0.061	0.937	
50mm λ=0.022 (+ 50mm low e cavity)	0.061	0.928	
100mm λ=0.022 (+ 50mm low e cavity)	0.060	0.938	

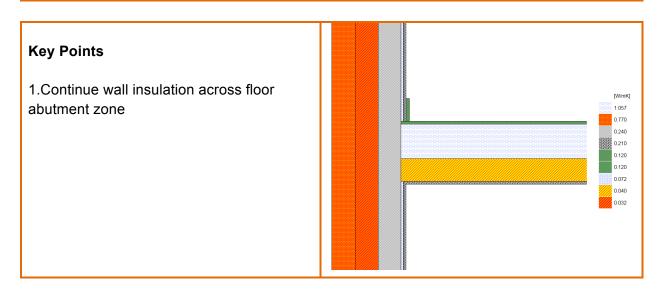


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Intermediate floor within a dwelling (Table K1 Ref E6)

Calculated Ψ -value = -0.004 - 0.000 W/mK



Calculated ψ-values and f-values

Timber floor joists – no insulation between			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	0.001	0.965	
150mm λ=0.032	0.000	0.975	
50mm λ=0.022 (+ 50mm low e cavity)	0.000	0.961	
100mm λ=0.022 (+ 50mm low e cavity)	0.000	0.976	

Calculated ψ -values and f-values

Timber floor joists – 100mm acoustic mineral wool between (λ=0.040)			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	-0.003	0.957	
150mm λ=0.032	-0.002	0.969	
50mm λ=0.022 (+ 50mm low e cavity)	-0.004	0.952	
100mm λ=0.022 (+ 50mm low e cavity)	-0.001	0.970	



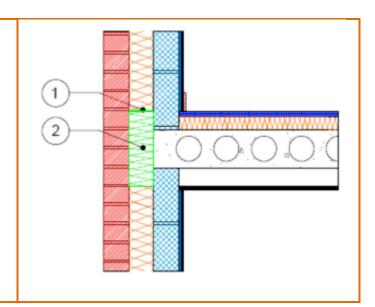
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Party floor between dwellings (block of flats) – concrete (Table K1 Ref E7) Calculated ψ -value = -0.023 – 0.002 W/mK

Key Points

- 1.Carry wall insulation across floor abutment zone or up to proprietary fire stop if used
- 2. Proprietary fire stop to be same thermal conductivity as wall insulation



Calculated ψ-values and f-values

Hollowcore plank separating floor		
Cavity wall insulation	Ψ-value W/m·k*	<i>f</i> -value
100mm λ=0.032	-0.021	0.963
150mm λ=0.032	0.002	0.974
50mm λ=0.022 (+ 50mm low e cavity)	-0.023	0.959
100mm λ=0.022 (+ 50mm low e cavity)	-0.015	0.975

^{*}Psi value is applied to both sides of the party floor



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Eaves (insulation at ceiling level) (Table K1 Ref E10)

Calculated Ψ -value = 0.036 - 0.120 W/mK

Key Points 1.Ensure continuity of the insulation between the wall plate and eaves, fully fill void with insulation | Month |

Calculated ψ -values and f-values

Accredited (Indicative) Detail Number: MCI-RE-01

400mm mineral wool insulation to ceiling (λ=0.044)		
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.039	0.938
50mm λ=0.022 (+ 50mm low e cavity)	0.037	0.937

400mm mineral wool insulation to ceiling (λ=0.040)		
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.106	0.906
150mm λ=0.032	0.116	0.909
50mm λ=0.022 (+ 50mm low e cavity)	0102	0.905
100mm λ=0.022 (+ 50mm low e cavity)	0.120	0.908

450mm mineral wool insulation to ceiling (λ=0.040)		
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.036	0.942
50mm λ=0.022 (+ 50mm low e cavity)	0.036	0.940



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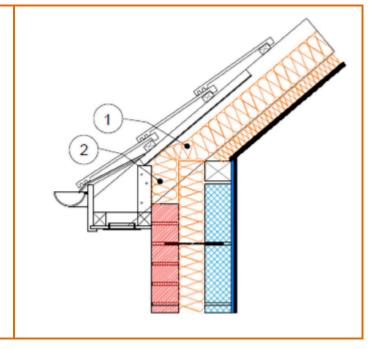
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Eaves (insulation at rafter level) (Table K1 Ref E11)

Calculated Ψ -value = -0.005 - 0.007 W/mK

Key Points

- 1.Ensure continuity of insulation between the roof and external wall
- 2. Fully fill the void with insulation



Calculated ψ -values and f-values

100mm insulation (λ =0.022) between the rafters and 50mm insulation (λ =0.022) below the rafters			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	-0.003	0.946	
150mm λ=0.032	0.005	0.949	
50mm λ=0.022 (+ 50mm low e cavity)	-0.005	0.945	
100mm λ=0.022 (+ 50mm low e cavity)	0.007	0.949	



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Gable (insulation at ceiling level) (Table K1 Ref E12)

Calculated Ψ -value = 0.065 - 0.074 W/mK

Key Points 1. Pack insulation between the last truss/joist and the external wall 2. Continue cavity wall insulation to the top of the gable wall Accretical disdicative Dead Number: MCI-90-91

400mm mineral wool insulation to plane ceiling (λ=0.040)		
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.072	0.917
150mm λ=0.032	0.067	0.929
50mm λ=0.022 (+ 50mm low e cavity)	0.074	0.913
100mm λ=0.022 (+ 50mm low e cavity)	0.065	0.931



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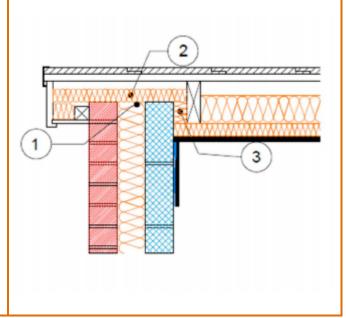
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Gable (insulation at rafter level) (Table K1 Ref E13)

Calculated Ψ -value = 0.069 - 0.070 W/mK

Key Points

- 1.Pack insulation between the final rafter and the external wall
- 2.Continue cavity wall insulation to the top of the gable wall
- 3. Fill the void above the wall head with insulation



100mm insulation (λ =0.022) between the rafters and 50mm insulation (λ =0.022) below the rafters			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	0.070	0.917	
150mm λ=0.032	0.070	0.925	
50mm λ=0.022 (+ 50mm low e cavity)	0.069	0.914	
100mm λ=0.022 (+ 50mm low e cavity)	0.069	0.927	



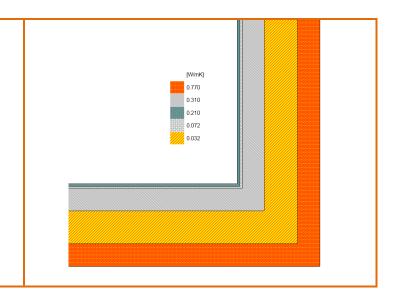
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Normal corner (Table K1 Ref E16) Calculated Ψ-value = 0.041 – 0.053 W/mK

Key Points

1. Ensure continuity of insulation at the corner



Calculated ψ-values and f-values

Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs			
Cavity wall insulation Ψ-value W/m·k <i>f</i> -value			
100mm λ=0.032	0.052	0.912	
150mm λ=0.032	0.044	0.932	
50mm λ=0.022 (+ 50mm low e cavity)	0.053	0.906	
100mm λ=0.022 (+ 50mm low e cavity)	0.041	0.937	



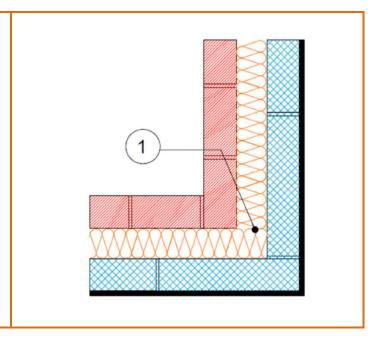
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Corner (inverted) (Table K1 Ref E17) Calculated Ψ-value = -0.107 to -0.076 W/mK

Key Points

1. Ensure continuity of insulation at the corner



Calculated ψ-values and f-values

Plasmor Fibolite (λ=0.24) inner leaf, plasterboard on dabs		
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	-0.102	0.968
150mm λ=0.032	-0.087	0.977
50mm λ=0.022 (+ 50mm low e cavity)	-0.107	0.964
100mm λ=0.022 (+ 50mm low e cavity)	-0.076	0.978



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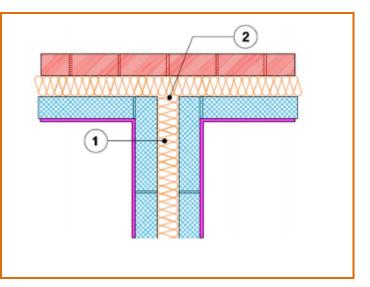
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Party wall between dwellings (Table K1 Ref E18)

Calculated Ψ -value = 0.027 - 0.041 W/mK*

Key Points

- 1.Fully fill party wall with 100mm acoustic mineral wool insulation (k=0.036)
- 2.Ensure continuity of insulation across the external wall/party wall abutment



Calculated ψ-values and f-values

Plasmor Fibolite (λ=0.24) inner leaf and party wall block		
Cavity wall insulation	Ψ-value W/m·k*	<i>f</i> -value
100mm λ=0.032	0.037*	0.949
150mm λ=0.032	0.028*	0.963
50mm λ=0.022 (+ 50mm low e cavity)	0.041*	0.944
100mm λ=0.022 (+ 50mm low e cavity)	0.027*	0.964

^{*}The value of ψ is applied to each dwelling



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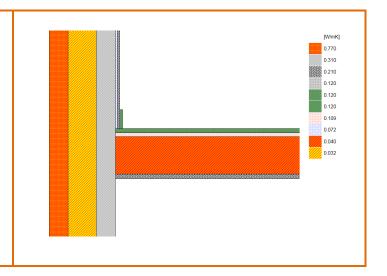
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Exposed floor (timber) (Table K1 Ref E20)

Calculated Ψ -value = 0.051 - 0.097 W/mK

Key Points

1. Ensure floor insulation tightly abuts the party wall



Garage below (inner leaf is blockwork below the floor, cavity wall insulation continues to ground floor)	Floor insulation 200mm (λ=0.040) between timber joists	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.067	0.874
150mm λ=0.032	0.068	0.882
50mm λ=0.022 (+ 50mm low e cavity)	0.051	0.870
100mm λ=0.022 (+ 50mm low e cavity)	0.067	0.884

Vehicle access below (inner leaf is brickwork below the floor, cavity wall insulation stops at floor level)	Floor insulation 200mm (λ=0.040) between timber joists	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.091	0.848
150mm λ=0.032	0.097	0.852
50mm λ=0.022 (+ 50mm low e cavity)	0.089	0.846
100mm λ=0.022 (+ 50mm low e cavity)	0.095	0.853



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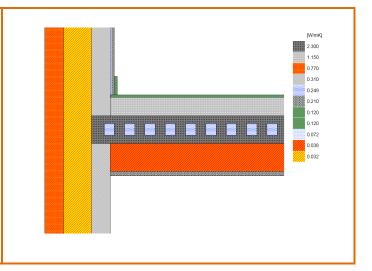
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Exposed floor (concrete) (Table K1 Ref E20)

Calculated Ψ -value = 0.126 - 0.302 W/mK

Key Points

 Continue wall insulation across the floor abutment zone and down to ground level



Garage below (inner leaf is blockwork below the floor, cavity wall insulation continues to ground level)	Floor insulation 150mm (λ=0.038) below the hollowcore plank	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.145	0.897
150mm λ=0.032	0.130	0.907
50mm λ=0.022 (+ 50mm low e cavity)	0.150	0.893
100mm λ=0.022 (+ 50mm low e cavity)	0.126	0.908

Drive-through (below exposed floor wall is two leaves of brickwork, insulation stops at floor level)	Floor insulation 150mm (λ=0.038) below the hollowcore plank	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.296	0.849
150mm λ=0.032	0.302	0.850
50mm λ=0.022 (+ 50mm low e cavity)	0.298	0.847
100mm λ=0.022 (+ 50mm low e cavity)	0.301	0.851



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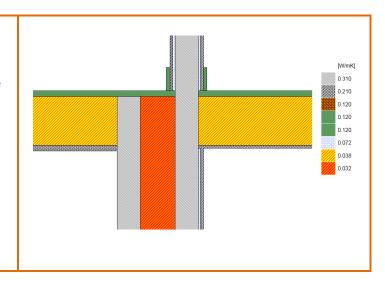
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Exposed floor inverted (timber) (Table K1 Ref E21)

Calculated Ψ -value = 0.035 - 0.162 W/mK

Key Points

Continue wall insulation across the floor abutment zone



Garage below (inner leaf is blockwork below the floor, cavity wall insulation continues to ground level)	Floor insulation 200mm (λ=0.040) between timber joists	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.047	0.922
150mm λ=0.032	0.037	0.919
50mm λ=0.022 (+ 50mm low e cavity)	0.047	0.922
100mm λ=0.022 (+ 50mm low e cavity)	0.035	0.918

Drive-through (below exposed floor wall is two leaves of brickwork, insulation stops at floor level)	Floor insulation 200mm (λ=0.040) between timber joists	
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.151	0.837
150mm λ=0.032	0.141	0.835
50mm λ=0.022 (+ 50mm low e cavity)	0.162	0.842
100mm λ=0.022 (+ 50mm low e cavity)	0.150	0.838



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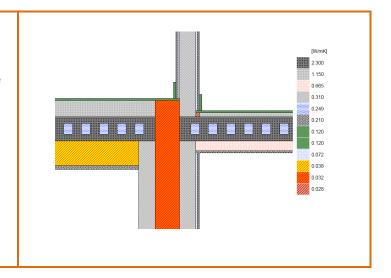
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Exposed floor inverted (concrete) (Table K1 Ref E21)

Calculated Ψ -value = 0.028 - 0.158 W/mK

Key Points

Continue wall insulation across the floor abutment zone



Garage below (inner leaf is blockwork below the floor, cavity wall insulation continues to ground level)	Floor insulation 150mm (λ=0.038) below the hollowcore plank	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.034	0.948
150mm λ=0.032	0.029	0.946
50mm λ=0.022 (+ 50mm low e cavity)	0.032	0.948
100mm λ=0.022 (+ 50mm low e cavity)	0.028	0.946

Drive-through (below exposed floor wall is two leaves of brickwork, insulation stops at floor level)	Floor insulation 150mm (λ=0.038) below the hollowcore plank	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.158	0.909
150mm λ=0.032	0.151	0.906
50mm λ=0.022 (+ 50mm low e cavity)	0.155	0.910
100mm λ=0.022 (+ 50mm low e cavity)	0.151	0.906



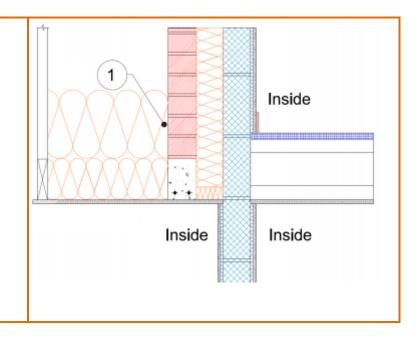
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Eaves (insulation at ceiling level - inverted) Concrete lintel (Table K1 Ref E24) Calculated ψ -value = -0.027 - 0.177 W/mK

Key Points

1.Ensure roof insulation tightly abuts the cavity wall



Bay window	300mm mineral wool insulation to ceiling (λ=0.040)	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.167	0.891
150mm λ=0.032	0.172	0.887
50mm λ=0.022 (+ 50mm low e cavity)	0.169	0.891
100mm λ=0.022 (+ 50mm low e cavity)	0.177	0.885

Extension	450mm mineral wool insulation to ceiling (λ=0.040)	
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	-0.010	0.937
150mm λ=0.032	0.079	0.946
50mm λ=0.022 (+ 50mm low e cavity)	-0.027	0.936
100mm λ=0.022 (+ 50mm low e cavity)	0.091	0.944



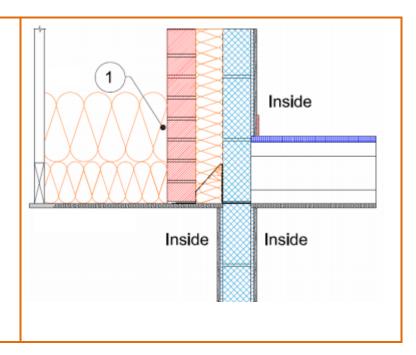
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Eaves (insulation at ceiling level - inverted) Folded steel lintel (Table K1 Ref E24) Calculated ψ -value = 0.206 – 0.251 W/mK

Key Points

1.Ensure roof insulation tightly abuts the cavity wall



Bay window	300mm mineral wool insulation to ceiling (λ=0.040)	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.209	0.902
150mm λ=0.032	0.244	0.918
50mm λ=0.022 (+ 50mm low e cavity)	0.211	0.900
100mm λ=0.022 (+ 50mm low e cavity)	0.251	0.916

Extension	450mm mineral wool insulation to ceiling (λ=0.040)	
Cavity wall insulation	Ψ-value W/m·k	<i>f-</i> value
100mm λ=0.032	0.235	0.925
150mm λ=0.032	0.206	0.921
50mm λ=0.022 (+ 50mm low e cavity)	0.247	0.925
100mm λ=0.022 (+ 50mm low e cavity)	0.207	0.918



Certificate No: E25(A)-FB-2018 Issued : 11 February 2022

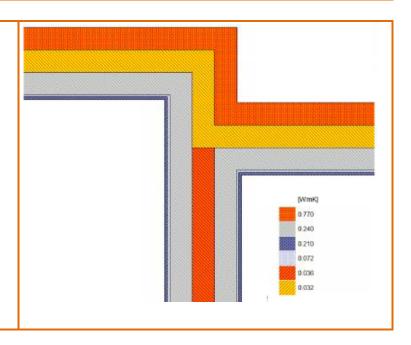
Issued by Plasmor Ltd

Party wall between dwellings (338mm stagger) (Table K1 Ref E25)

Calculated Ψ -value = 0.084 - 0.135 W/mK*

Key Points

- 1.Fully fill party wall with acoustic mineral wool insulation (k=0.036)
- 2.Ensure continuity of insulation throughout the junction



Calculated ψ-values and f-values

Cavity wall insulation	Plasmor Fibolite (λ=0.24) inner leaf and party wall block	
	Ψ-value W/m·k* f-value	<i>f-</i> value
100mm λ=0.032	0.120*	0.918
150mm λ=0.032	0.085*	0.939
50mm λ=0.022 (+ 50mm low e cavity)	0.135*	0.911
100mm λ=0.022 (+ 50mm low e cavity)	0.084*	0.942

^{*}Half of Psi value is applied to each dwelling.



Certificate No: E25(B)-FB-2018 Issued : 11 February 2022

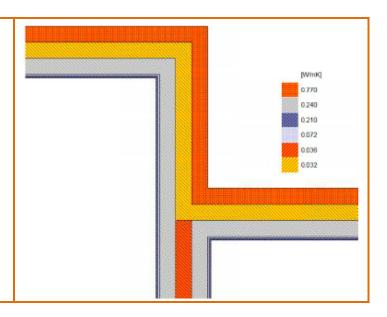
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Party wall between dwellings (1013mm stagger) (Table K1 Ref E25)

Calculated Ψ -value = 0.089 - 0.132 W/mK*

Key Points

- 1.Fully fill party wall with acoustic mineral wool insulation (k=0.036)
- 2.Ensure continuity of insulation throughout the junction



Calculated ψ-values and f-values

Cavity wall insulation	Plasmor Fibolite (λ=0.24) inner leaf and party wall block	
	Ψ-value W/m·k* <i>f-</i> value	
100mm λ=0.032	0.118*	0.912
150mm λ=0.032	0.098*	0.932
50mm λ=0.022 (+ 50mm low e cavity)	0.132*	0.906
100mm λ=0.022 (+ 50mm low e cavity)	0.089*	0.937

^{*}Half of Psi value is applied to each dwelling



Certificate No: P4-FB-2018 Issued : 11 February 2022

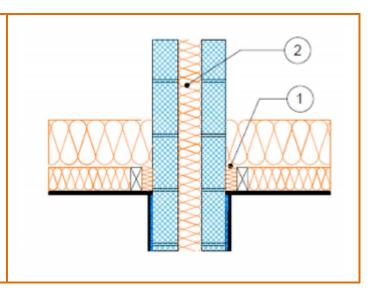
Issued by Plasmor Ltd

Roof (insulation at ceiling level) (Table K1 Ref P4)

Calculated Ψ-value = 0.078 W/mK*

Key Points

- 1.Fill the space between the last joist and the party wall with insulation
- 2.Continue party wall insulation (k=0.036) 200mm above the top of the roof insulation



Calculated ψ-values and f-values

Roof insulation	Plasmor Fibolite (λ=0.24) party wall block	
	Ψ-value W/m·k*	<i>f-</i> value
400mm mineral wool λ=0.040	0.078*	0.949

^{*}Half of the Psi value applies to each dwelling



Certificate No: P5-FB-2018 Issued : 11 February 2022

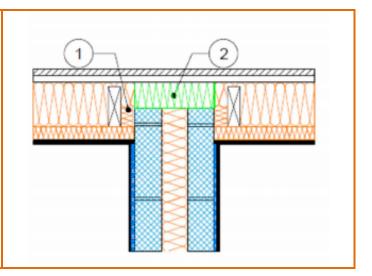
Issued by Plasmor Ltd

Roof (insulation at rafter level) (Table K1 Ref P5)

Calculated Ψ-value = 0.051 W/mK*

Key Points

- 1.Fill the space between the last rafter and the party wall with insulation
- 2.Install wall head insulation λ =0.022



Calculated ψ-values and f-values

Roof insulation	Plasmor Fibolite (λ=0.24) party wall block	
	Ψ-value W/m·k*	<i>f-</i> value
100mm rigid insulation between rafters λ =0.022, 50mm rigid insulation below the rafters λ =0.022 and plasterboard finish	0.051*	0.960

^{*}For junctions shared by 2 or more dwellings, divide the Psi value by the number of dwellings involved and apply the proportion to each