



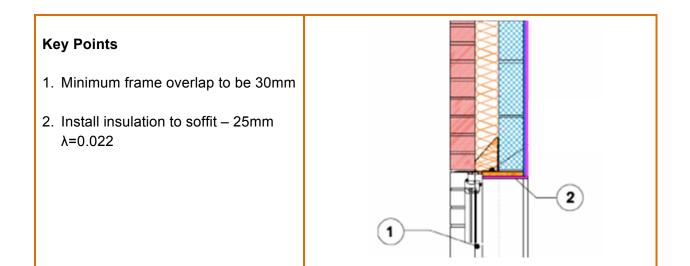
Certificate No: E1-SL-2018

Issued : 15 February 2022

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

Calculated ψ -value 0.305 – 0.326 W/mK



Calculated ψ -values and f-values

Cavity Insulation	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.316	0.884
150mm λ=0.032	0.321	0.886
50mm λ=0.022 (+ 50mm low e cavity)	0.305	0.883
100mm λ=0.022 (+ 50mm low e cavity)	0.326	0.886



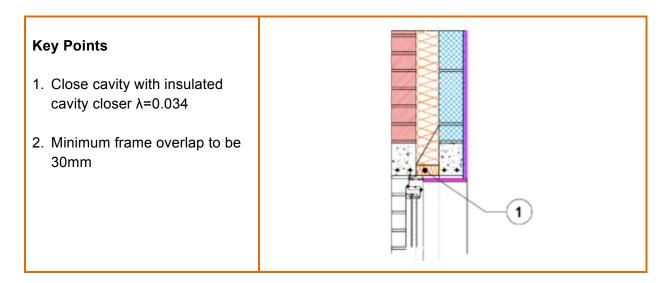
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Independent Concrete lintel (Table K1 Ref E2)

Calculated Ψ -value = 0.031 – 0.041 W/mK



Calculated ψ -values and f-values

Cavity Insulation	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.031	0.898
150mm λ=0.032	0.034	0.893
50mm λ=0.022 (+ 50mm low e cavity)	0.036	0.890
100mm λ=0.022 (+ 50mm low e cavity)	0.041	0.886

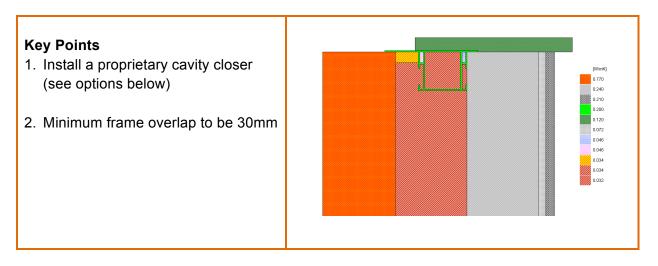


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Sill (Table K1 Ref E3)

Calculated Ψ -value = 0.021 – 0.033 W/mK



Thermabate cavity closer*	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.021	0.885
150mm λ=0.032	0.026	0.881
50mm λ=0.022 (+ 50mm low e cavity)	0.024	0.875
100mm λ=0.022 (+ 50mm low e cavity)	0.033	0.867

Cavalok cavity closer*	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.021	0.883
150mm λ=0.032	0.026	0.877
50mm λ=0.022 (+ 50mm low e cavity)	0.021	0.879
100mm λ=0.022 (+ 50mm low e cavity)	0.031	0.873

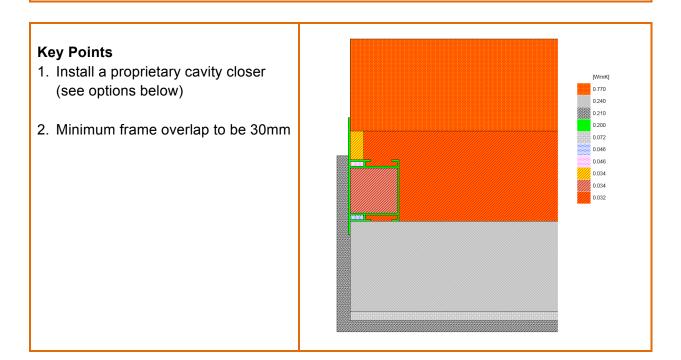
*Following manufacturer's installation guidelines for cavity closer

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Jamb (Table K1 Ref E4)

Calculated Ψ -value = 0.024 – 0.038 W/mK



Calculated ψ -values and f-values

Thermabate cavity closer*	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.024	0.881
150mm λ=0.032	0.030	0.876
50mm λ=0.022 (+ 50mm low e cavity)	0.029	0.870
100mm λ=0.022 (+ 50mm low e cavity)	0.038	0.866

Cavalok cavity closer*	Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs	
Cavity Insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.026	0.876
150mm λ=0.032	0.032	0.871
50mm λ=0.022 (+ 50mm low e cavity)	0.028	0.872
100mm λ=0.022 (+ 50mm low e cavity)	0.037	0.867

*Following manufacturer's installation guidelines for cavity closer

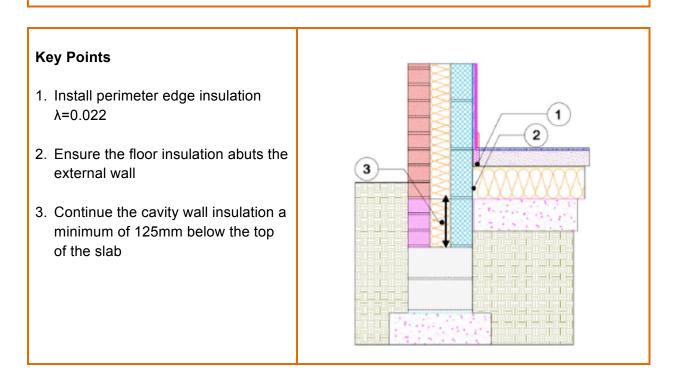


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Solid concrete ground floor – insulation above slab (Table K1 Ref E5)

Calculated Ψ -value = 0.086 – 0.090 W/mK



Cavity wall insulation	100mm Floor insulation (λ=0.022)	
	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.090	0.916
150mm λ=0.032	0.087	0.921
50mm λ=0.022 (+ 50mm low e cavity)	0.089	0.913
100mm λ=0.022 (+ 50mm low e cavity)	0.086	0.922

Cavity wall insulation	150mm Floor insulation (λ=0.022)	
	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.090	0.916
150mm λ=0.032	0.087	0.921
50mm λ=0.022 (+ 50mm low e cavity)	0.089	0.913
100mm λ=0.022 (+ 50mm low e cavity)	0.086	0.922



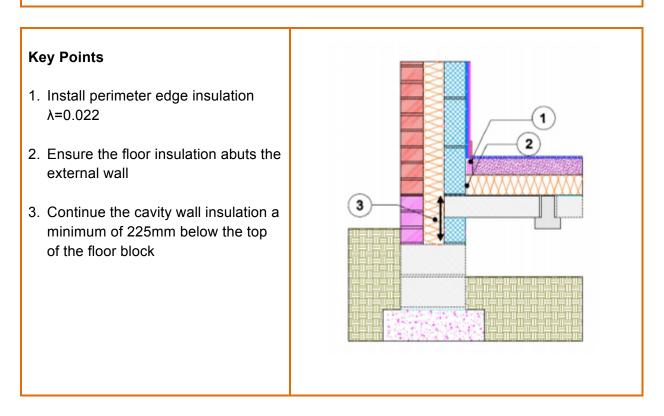
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Certificate No:	E5-SL-2018	Issued : 11

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

Calculated Ψ -value = 0.076 – 0.082 W/mK



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	0.081	0.920	
150mm λ=0.032	0.081	0.926	
50mm λ=0.022 (+ 50mm low e cavity)	0.080	0.918	
100mm λ=0.022 (+ 50mm low e cavity)	0.080	0.927	

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	0.076	0.925
150mm λ=0.032	0.082	0.931
50mm λ=0.022 (+ 50mm low e cavity)	0.082	0.922
100mm λ=0.022 (+ 50mm low e cavity)	0.081	0.932

Calculated ψ -values and f-values



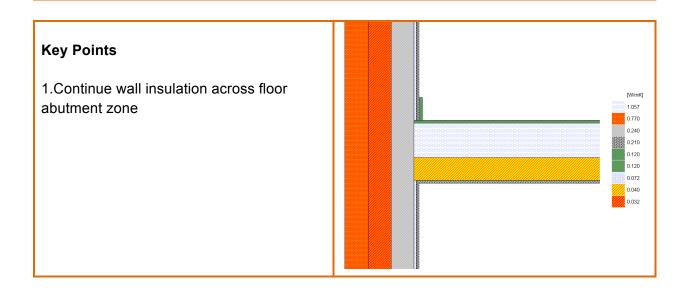
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Intermediate floor within a dwelling (Table K1 Ref E6)

Calculated Ψ -value = -0.005 – 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	0.000	0.963
150mm λ=0.032	0.000	0.974
50mm λ=0.022 (+ 50mm low e cavity)	0.000	0.959
100mm λ=0.022 (+ 50mm low e cavity)	-0.001	0.975

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	0.955
150mm λ=0.032	-0.002	0.968
50mm λ=0.022 (+ 50mm low e cavity)	-0.005	0.949
100mm λ=0.022 (+ 50mm low e cavity)	-0.002	0.969

Calculated ψ -values and f-values



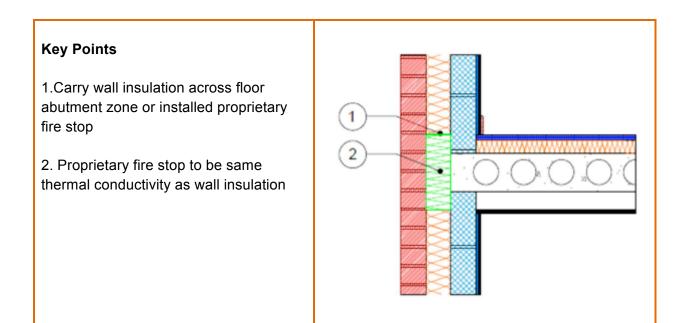
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Party floor between dwellings (block of flats) – concrete (Table K1 Ref E7)

Calculated ψ -value = -0.024 – 0.001 W/mK



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	-0.024	0.961
150mm λ=0.032	-0.018	0.972
50mm λ=0.022 (+ 50mm low e cavity)	-0.026	0.956
100mm λ=0.022 (+ 50mm low e cavity)	0.001	0.974

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

The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.

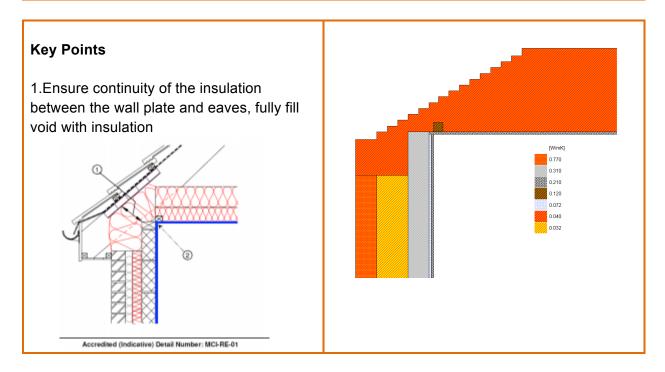


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Eaves (insulation at ceiling level) (Table K1 Ref E10)

Calculated ψ -value = 0.111 – 0.126 W/mK



Calculated ψ -values and f-values

400mm mineral wool insulation to ceiling (λ =0.040)		
Cavity wall insulation Ψ-value W/		<i>f</i> -value
100mm λ=0.032	0.111	0.907
150mm λ=0.032	0.114	0.910
50mm λ=0.022 (+ 50mm low e cavity)	0107	0.906
100mm λ=0.022 (+ 50mm low e cavity)	0.126	0.909

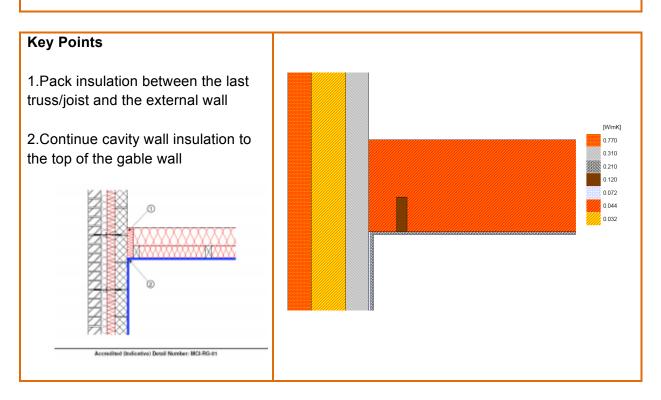
The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.



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

Calculated ψ -value = 0.082 – 0.091 W/mK



Calculated ψ -values and f-values

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	0.090	0.908	
150mm λ=0.032	0.084	0.921	
50mm λ=0.022 (+ 50mm low e cavity)	0.091	0.903	
100mm λ=0.022 (+ 50mm low e cavity)	0.082	0.923	

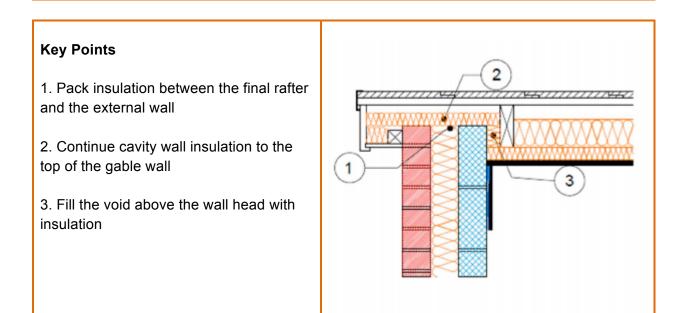


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Gable (insulation at rafter level) (Table K1 Ref E13)

Calculated Ψ -value = 0.076 – 0.078 W/mK



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	0.078	0.917
150mm λ=0.032	0.078	0.926
50mm λ=0.022 (+ 50mm low e cavity)	0.077	0.913
100mm λ=0.022 (+ 50mm low e cavity)	0.076	0.928

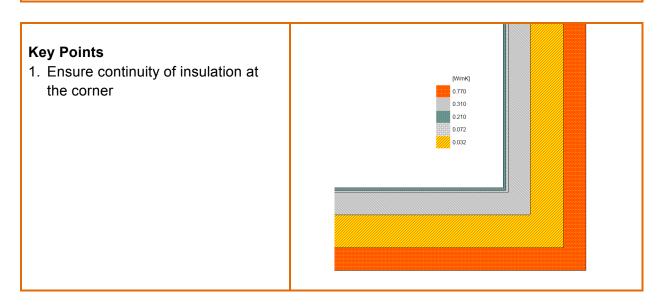




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Normal corner (Table K1 Ref E16)

Calculated ψ -value = 0.044 – 0.060 W/mK



Calculated ψ -values and f-values

Plasmor Stranlite (λ=0.41) inner leaf, plasterboard on dabs		
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	0.059	0.915
150mm λ=0.032	0.049	0.940
50mm λ=0.022 (+ 50mm low e cavity)	0.060	0.907
100mm λ=0.022 (+ 50mm low e cavity)	0.044	0.940



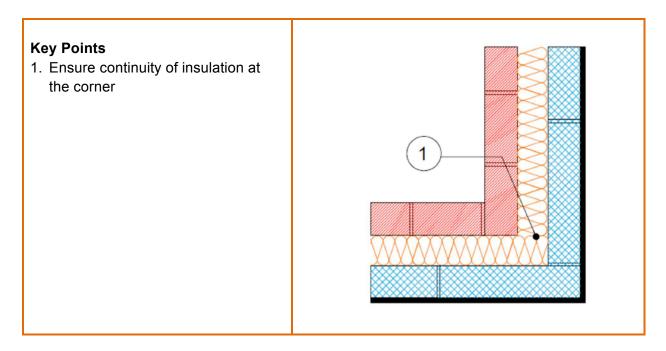
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Corner (inverted) (Table K1 Ref E17)

Calculated ψ -value = -0.113 to -0.080 W/mK



Calculated ψ -values and f-values

Plasmor Stranlite (λ =0.41) inner leaf, plasterboard on dabs		
Cavity wall insulation	Ψ-value W/m·k	<i>f</i> -value
100mm λ=0.032	-0.108	0.966
150mm λ=0.032	-0.091	0.976
50mm λ=0.022 (+ 50mm low e cavity)	-0.113	0.962
100mm λ=0.022 (+ 50mm low e cavity)	-0.080	0.977

The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.



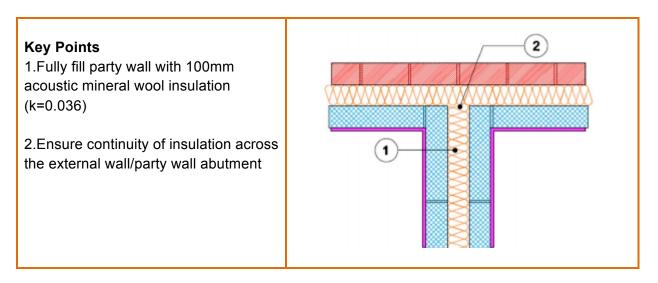
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Party wall between dwellings (Table K1 Ref E18)

Calculated Ψ -value = 0.028 – 0.044 W/mK*



Calculated ψ -values and f-values

Plasmor Stranlite (λ =0.41) inner leaf and party wall block		
Cavity wall insulation	Ψ-value W/m·k*	<i>f</i> -value
100mm λ=0.032	0.040*	0.952
150mm λ=0.032	0.029*	0.965
50mm λ=0.022 (+ 50mm low e cavity)	0.044*	0.946
100mm λ=0.022 (+ 50mm low e cavity)	0.028*	0.967

*The value of ψ is applied to each dwelling

The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.

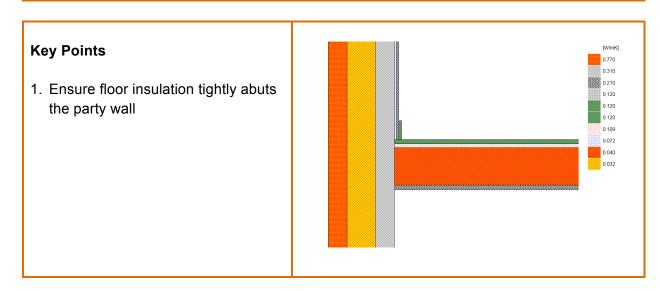
Note: Plasmor Stranlite block with 100mm cavity party wall does appear in Robust Details



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Exposed floor (timber) (Table K1 Ref E20) Calculated Ψ -value = 0.094 – 0.130 W/mK



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	0.096	0.860
150mm λ=0.032	0.098	0.868
50mm λ=0.022 (+ 50mm low e cavity)	0.094	0.857
100mm λ=0.022 (+ 50mm low e cavity)	0.098	0.870

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	0.122	0.836
150mm λ=0.032	0.130	0.840
50mm λ=0.022 (+ 50mm low e cavity)	0.119	0.834
100mm λ=0.022 (+ 50mm low e cavity)	0.130	0.841



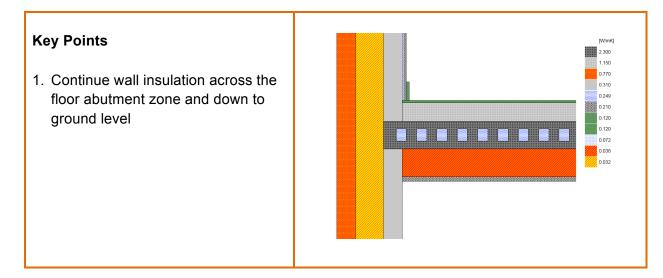
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Exposed floor (concrete) (Table K1 Ref E20)

Calculated Ψ -value = 0.166 – 0.319 W/mK



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	0.182	0.884
150mm λ=0.032	0.169	0.894
50mm λ=0.022 (+ 50mm low e cavity)	0.187	0.880
100mm λ=0.022 (+ 50mm low e cavity)	0.166	0.895

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	0.302	0.850
150mm λ=0.032	0.310	0.852
50mm λ=0.022 (+ 50mm low e cavity)	0.319	0.842
100mm λ=0.022 (+ 50mm low e cavity)	0.309	0.853

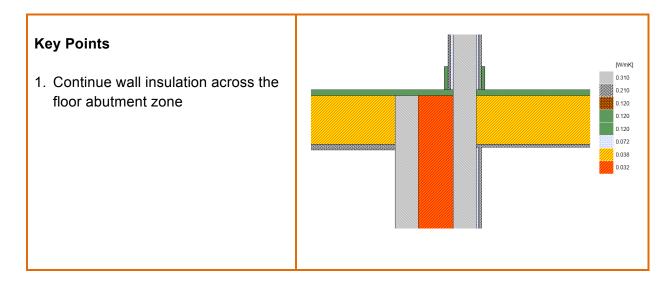


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Exposed floor inverted (timber) (Table K1 Ref E21)

Calculated Ψ -value = 0.070 – 0.162 W/mK



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	0.084	0.887
150mm λ=0.032	0.073	0.884
50mm λ=0.022 (+ 50mm low e cavity)	0.083	0.888
100mm λ=0.022 (+ 50mm low e cavity)	0.070	0.883

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	0.152	0.838
150mm λ=0.032	0.141	0.835
50mm λ=0.022 (+ 50mm low e cavity)	0.162	0.843
100mm λ=0.022 (+ 50mm low e cavity)	0.150	0.838

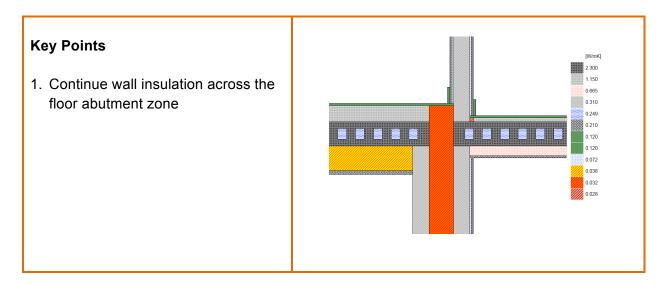


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Exposed floor inverted (concrete) (Table K1 Ref E21)

Calculated Ψ -value = 0.074 – 0.157 W/mK



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	0.080	0.933
150mm λ=0.032	0.075	0.931
50mm λ=0.022 (+ 50mm low e cavity)	0.077	0.934
100mm λ=0.022 (+ 50mm low e cavity)	0.074	0.931

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	0.157	0.909
150mm λ=0.032	0.151	0.907
50mm λ=0.022 (+ 50mm low e cavity)	0.154	0.910
100mm λ=0.022 (+ 50mm low e cavity)	0.150	0.906



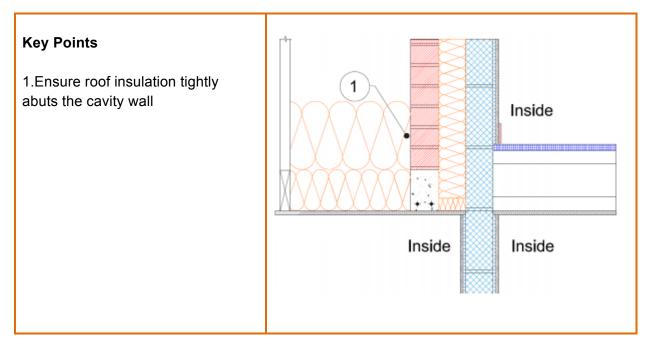
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Eaves (insulation at ceiling level - inverted) Concrete lintel (Table K1 Ref E24)

Calculated Ψ -value = -0.027 – 0.177 W/mK



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

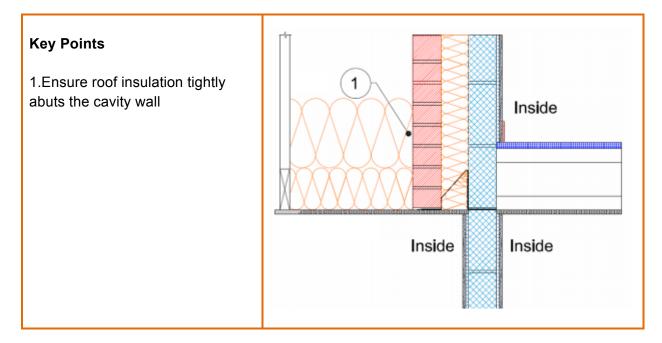


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Certificate NO:	E24(D)-3L-2010	Issued : 15 Februa

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Eaves (insulation at ceiling level - inverted) Folded steel lintel (Table K1 Ref E24) Calculated ψ -value = 0.186 – 0.255 W/mK



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	0.906
150mm λ=0.032	0.247	0.920
50mm λ=0.022 (+ 50mm low e cavity)	0.212	0.904
100mm λ=0.022 (+ 50mm low e cavity)	0.254	0.918

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	0.239	0.925
150mm λ=0.032	0.209	0.921
50mm λ=0.022 (+ 50mm low e cavity)	0.255	0.925
100mm λ=0.022 (+ 50mm low e cavity)	0.186	0.919



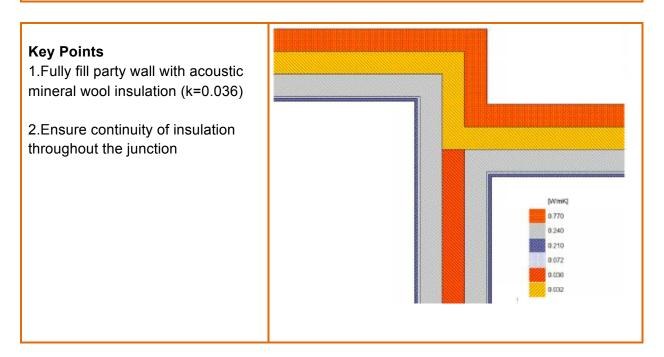
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Party wall between dwellings (338mm stagger) (Table K1 Ref E25)

Calculated ψ -value = 0.089 – 0.146 W/mK*



Calculated ψ -values and f-values

Cavity wall insulation	Plasmor Stranlite (λ=0.41) inner leaf and party wall block	
	Ψ-value W/m·k*	<i>f</i> -value
100mm λ=0.032	0.130*	0.922
150mm λ=0.032	0.090*	0.943
50mm λ=0.022 (+ 50mm low e cavity)	0.146*	0.915
100mm λ=0.022 (+ 50mm low e cavity)	0.089*	0.946

*Half of Psi value is applied to each dwelling.

The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.



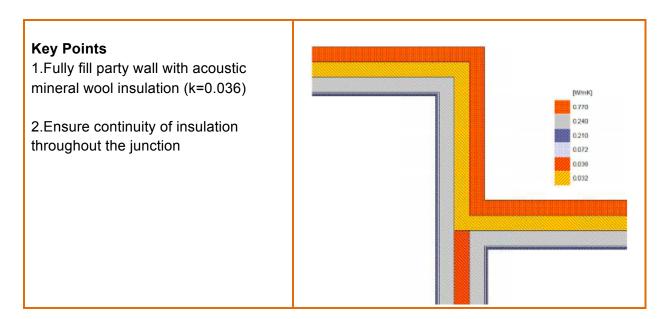
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Party wall between dwellings (1013mm stagger) (Table K1 Ref E25)

Calculated ψ -value = 0.093 – 0.143 W/mK*



Calculated ψ -values and f-values

Cavity wall insulation	Plasmor Stranlite (λ=0.41) inner leaf and party wall block	
	Ψ-value W/m·k*	<i>f</i> -value
100mm λ=0.032	0.127*	0.915
150mm λ=0.032	0.103*	0.935
50mm λ=0.022 (+ 50mm low e cavity)	0.143*	0.907
100mm λ=0.022 (+ 50mm low e cavity)	0.093*	0.940

*Half of Psi value is applied to each dwelling

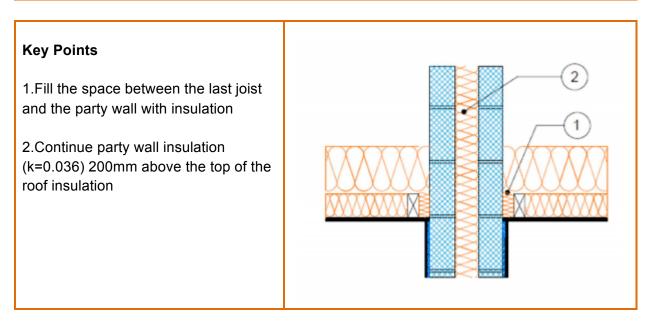
The f-value should be above 0.75 to minimise the risk of mould growth in dwellings.



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

Calculated Ψ -value = 0.128 W/mK*



Calculated ψ -values and f-values

Roof insulation	Plasmor Stranlite (λ=0.41) party wall block	
	Ψ-value W/m·k*	<i>f</i> -value
400mm mineral wool λ=0.040	0.128*	0.935

*Half of the Psi value applies to each dwelling



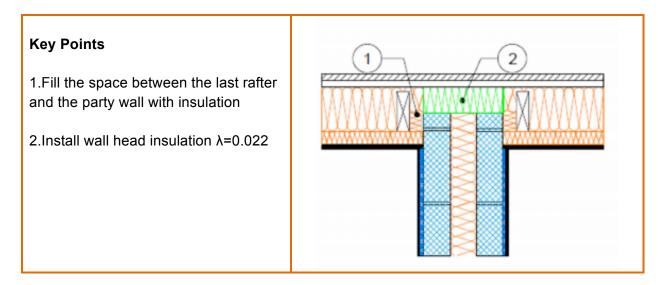
Cortificate No:	DE EL 2019	
Certificate No:	P3-3L-2010	

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

Calculated Ψ -value = 0.057 W/mK*



Calculated ψ -values and f-values

Roof insulation	Plasmor Stranlite (λ=0.41) 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	0.057*	0.963

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