

# FIBOLITE Thermal Bridging Values



**Plasmor**  
CONCRETE PRODUCTS

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-064

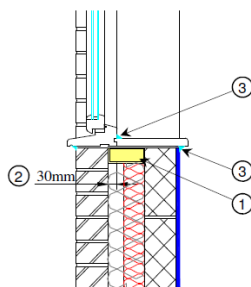
Issued : 27<sup>th</sup> January 2014

Issued by Plasmor Ltd

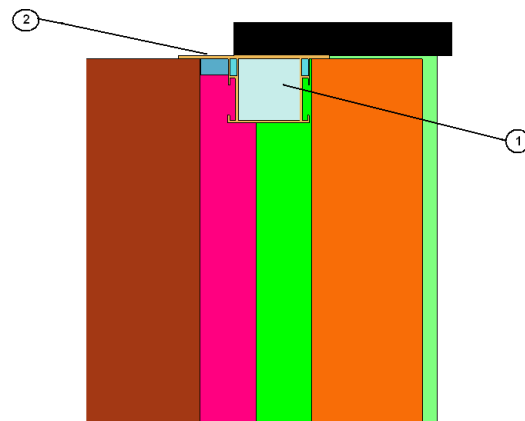
<b>Sill</b> Table K.1 Ref E3 Approved $\psi$ -value = 0.04 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Insulation (see tables below)
	Outer leaf	102 mm Brick $\lambda = 0.77$

### Key Points

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



Accredited (Indicative) Detail Number: MCI-WD-04



### Calculated $\psi$ -values and $f$ -values for different insulation and cavity closer systems

	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
<b>Cavity Insulation <math>k=0.036</math> full-fill</b>				
Cavalok cavity closer*	<b>0.016</b>	0.909	<b>0.018</b>	0.907
Thermabate cavity closer*	<b>0.010</b>	0.927	<b>0.012</b>	0.919

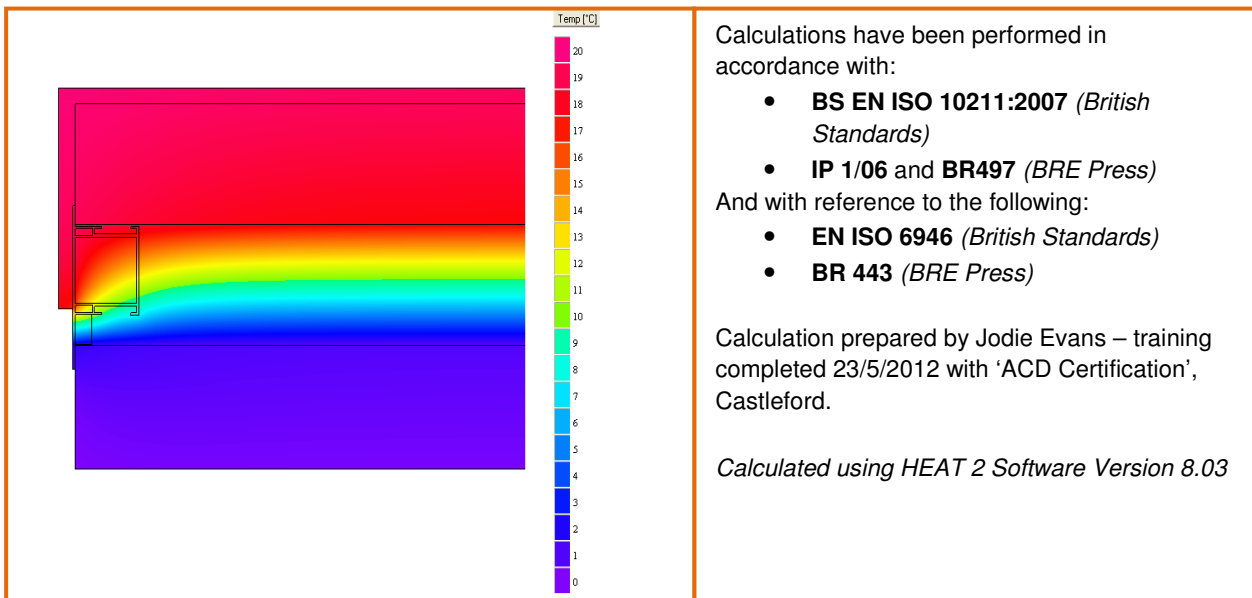
	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
Cavity Insulation $k=0.032$ full-fill	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
Cavalok cavity closer*	<b>0.016</b>	0.911	<b>0.019</b>	0.909
Thermabate cavity closer*	<b>0.010</b>	0.922	<b>0.012</b>	0.919

	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
Cavity Insulation $k=0.022$ partial-fill	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
Cavalok cavity closer*	<b>0.025</b>	0.893	<b>0.027</b>	0.890
Thermabate cavity closer*	<b>0.014</b>	0.916	<b>0.016</b>	0.910

\*Following manufacturer's installation guidelines

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

### Temperature Distribution



**On-site Checklist**

- Minimum frame overlap to be 30mm
- Close the cavity with a proprietary cavity closer

Type of cavity closer used .....

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-025/026

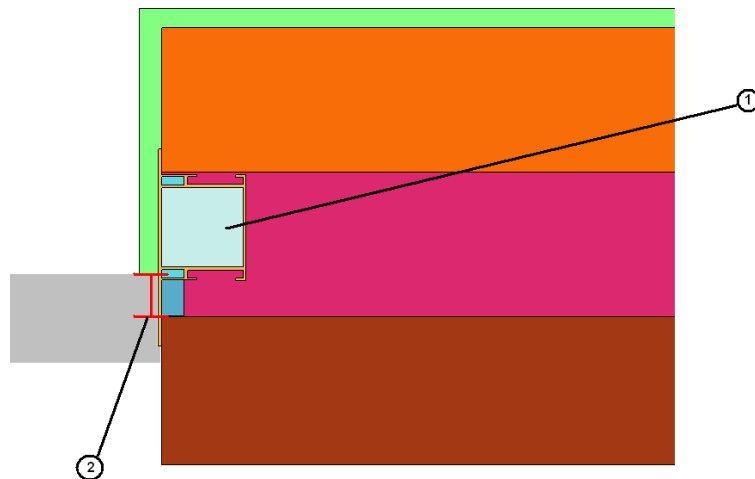
Issued : 31 July 2013

Issued by Plasmor Ltd

<b>Jamb</b> Table K.1 Ref E4 Approved $\psi$ -value = 0.05 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Insulation (see tables below)
	Outer leaf	102 mm Brick $\lambda = 0.77$

### Key Points

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



### Calculated $\psi$ -values and $f$ -values for different insulation and cavity closer systems

	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
<b>Cavity Insulation <math>k=0.036</math> full-fill</b>				
Cavalok cavity closer*	<b>0.024</b>	0.897	<b>0.015</b>	0.930
Thermabate cavity closer*	<b>0.016</b>	0.926	<b>0.009</b>	0.0.944

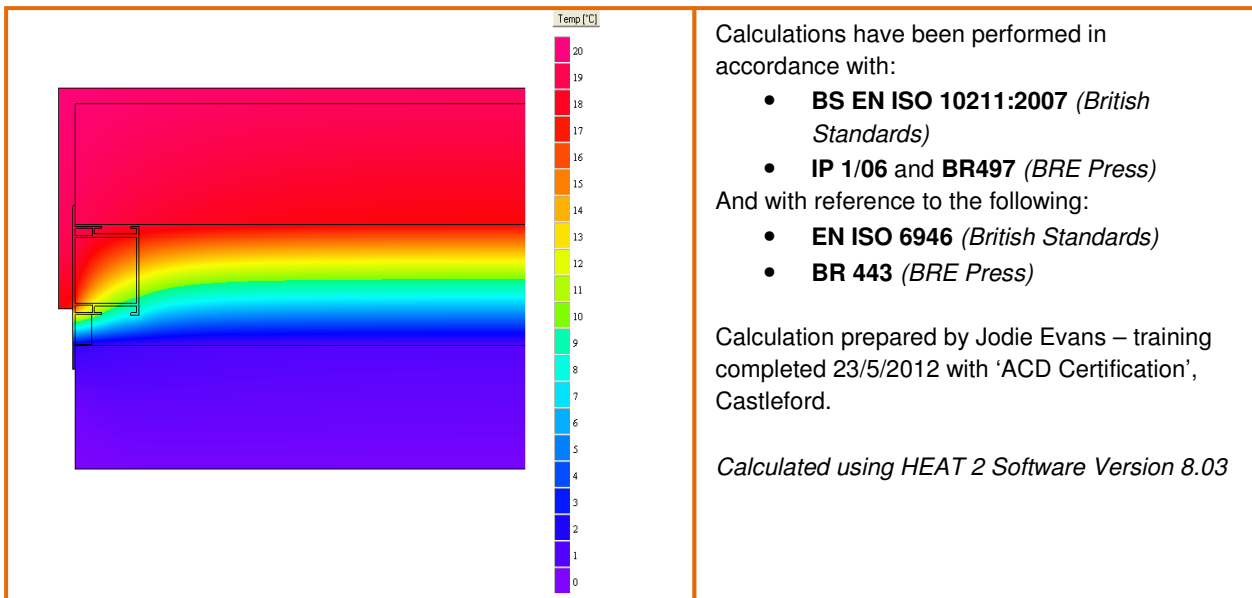
	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
<b>Cavity Insulation <math>k=0.032</math> full-fill</b>	$\Psi$ -value W/m.k	<i>f</i> -value	$\Psi$ -value W/m.k	<i>f</i> -value
Cavalok cavity closer*	<b>0.024</b>	0.900	<b>0.015</b>	0.935
Thermabate cavity closer*	<b>0.016</b>	0.927	<b>0.011</b>	0.945

\*Following manufacturer's installation guidelines

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

	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
<b>Cavity Insulation <math>k=0.022</math> partial-fill</b>	$\Psi$ -value W/m.k	<i>f</i> -value	$\Psi$ -value W/m.k	<i>f</i> -value
Cavalok cavity closer*	<b>0.035</b>	0.878	<b>0.024</b>	0.918
Thermabate cavity closer*	<b>0.022</b>	0.917	<b>0.014</b>	0.937

### Temperature Distribution



**On-site Checklist**

- Minimum frame overlap to be 30mm
- Close the cavity with a proprietary cavity closer

Type of cavity closer used .....

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-070

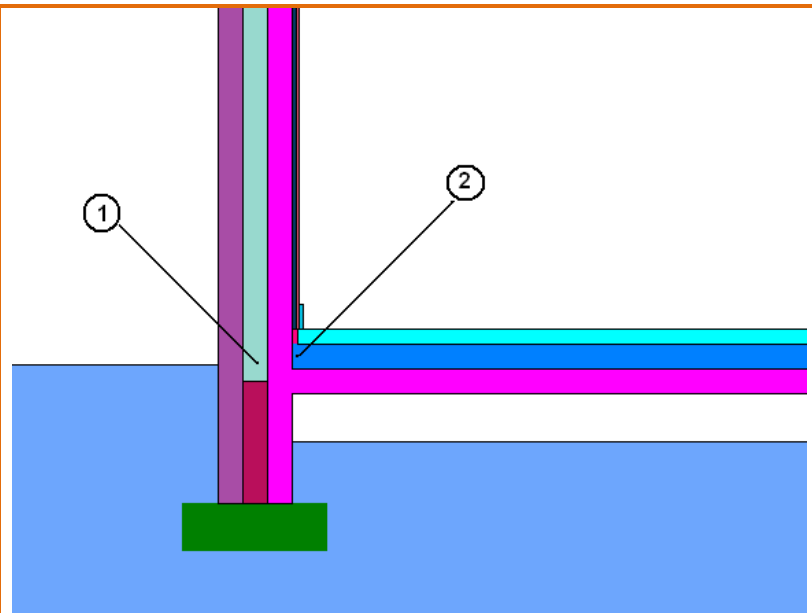
Issued : 27<sup>th</sup> January 2014

Issued by Plasmor Ltd

<b>Ground Floor</b>  Table K.1 Ref E5 Approved $\psi$ -value = 0.16 W/mK	External wall construction	Brick outer, 100mm cavity, <b>100mm Fibolite 3.6N block inner leaf</b> , internal finish
	Ground floor construction	Suspended beam and block floor using <b>100mm Plasmor Fibolite 7.3N block (floor beams parallel to junction)</b> , floor insulation, 75mm screed finish

### Key Points

1. Ensure wall insulation is carried down at least 150mm below the top of the floor insulation.
2. Floor insulation must tightly abut the blockwork inner leaf



### Calculated $\psi$ -values and $f$ -values for suspended beam and block floor – floor beams parallel to ground floor junction

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
<b>Wall insulation k=0.036 full-fill</b>				
Floor insulation 100mm (k=0.022)	0.071	0.923	0.064	0.915
Floor insulation 150mm (k=0.022)	0.073	0.927	0.065	0.918
Floor insulation 250mm (k=0.038)	0.078	0.920	0.072	0.913

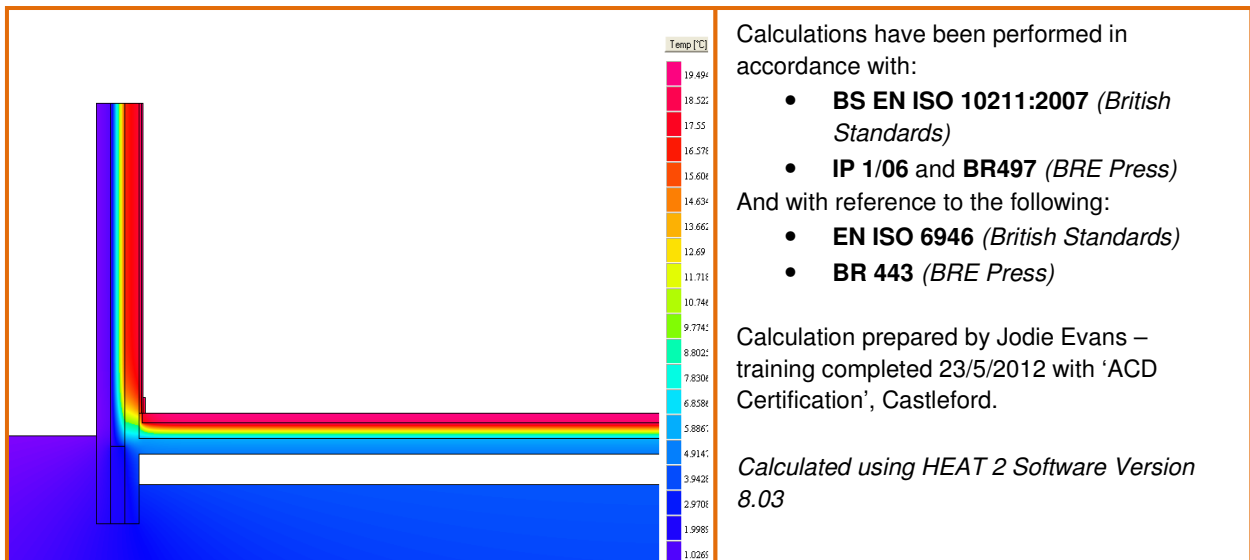


	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.032 full-fill</u>	$\Psi$ -value W/m.k	f-value	$\Psi$ -value W/m.k	f-value
Floor insulation 100mm (k=0.022)	0.071	0.923	0.058	0.917
Floor insulation 150mm (k=0.022)	0.069	0.928	0.066	0.925
Floor insulation 250mm (k=0.038)	0.078	0.922	0.064	0.906

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.022 partial fill</u>	$\Psi$ -value W/m.k	f-value	$\Psi$ -value W/m.k	f-value
Floor insulation 100mm (k=0.022)	0.066	0.923	0.057	0.923
Floor insulation 150mm (k=0.022)	0.072	0.926	0.058	0.909
Floor insulation 250mm (k=0.038)	0.077	0.921	0.064	0.905

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

### Temperature Distribution



**On-site Checklist**

- Ensure cavity wall insulation carries on at least 150mm below the top of the floor insulation
  
- Ensure floor insulation tightly abuts the blockwork wall

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-071

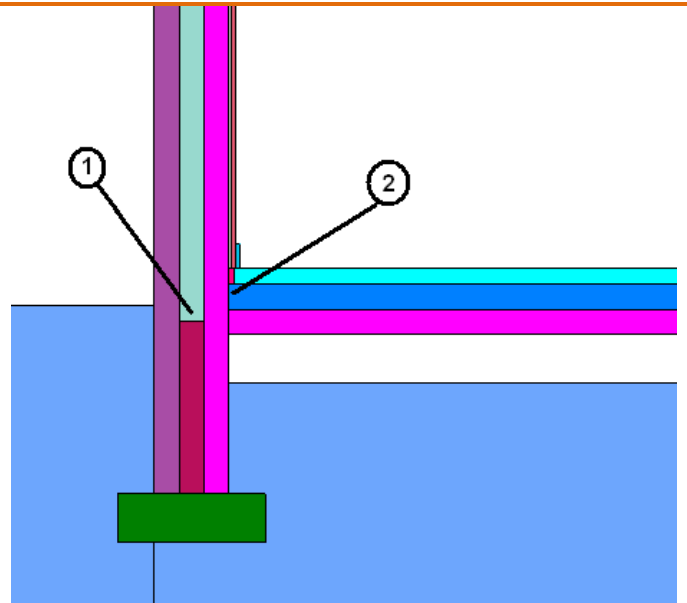
Issued : 23<sup>rd</sup> January 2014

Issued by Plasmor Ltd

<b>Ground Floor</b>  Table K.1 Ref E5 Approved $\psi$ -value = 0.16 W/mK	External wall construction	Brick outer, 100mm cavity, <b>100mm Fibolite 3.6N block inner leaf</b> , internal finish
	Ground floor construction	Suspended beam and block floor using <b>100mm Plasmor Fibolite 7.3N block (floor beams perpendicular to junction)</b> , floor insulation, 75mm screed finish

### Key Points

1. Ensure wall insulation is carried down at least 150mm below the top of the floor insulation.
2. Floor insulation must tightly abut the blockwork inner leaf



### Calculated $\psi$ -values and $f$ -values for suspended beam and block floor – floor beams perpendicular to ground floor junction

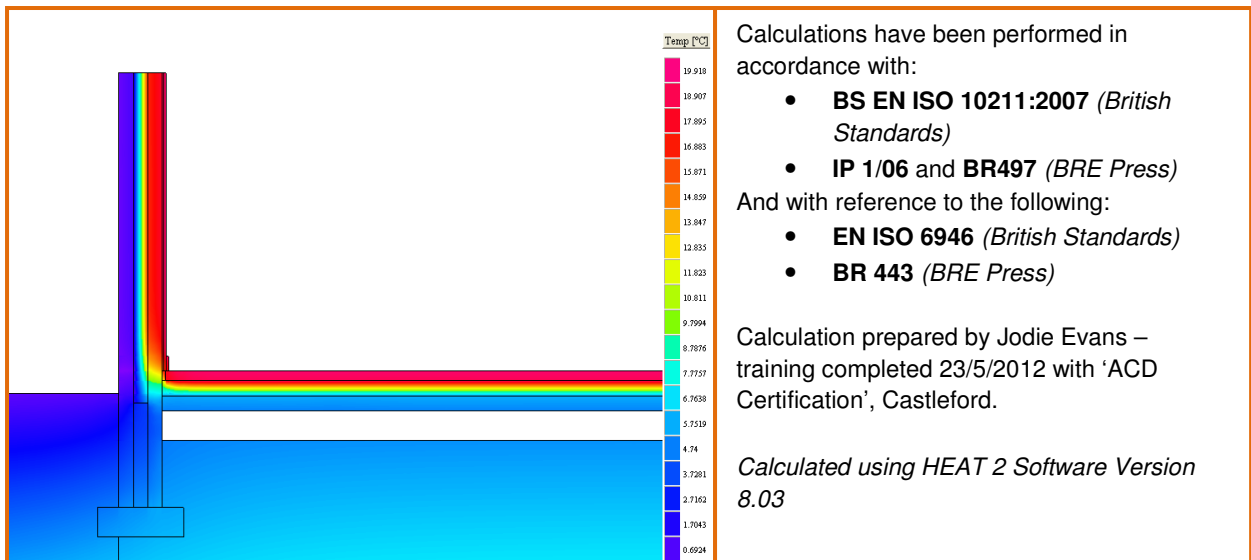
	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m·k	$f$ -value	$\Psi$ -value W/m·k	$f$ -value
<b>Wall insulation k=0.036 full-fill</b>				
Floor insulation 100mm (k=0.022)	0.075	0.919	0.068	0.911
Floor insulation 150mm (k=0.022)	0.081	0.925	0.082	0.872
Floor insulation 250mm (k=0.038)	0.077	0.925	0.071	0.915

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.032 full-fill</u>	$\Psi$ -value W/m.k	f-value	$\Psi$ -value W/m.k	f-value
Floor insulation 100mm (k=0.022)	0.076	0.927	0.069	0.913
Floor insulation 150mm (k=0.022)	0.073	0.927	0.082	0.876
Floor insulation 250mm (k=0.038)	0.077	0.931	0.071	0.917

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.022 partial fill</u>	$\Psi$ -value W/m.k	f-value	$\Psi$ -value W/m.k	f-value
Floor insulation 100mm (k=0.022)	0.075	0.925	0.068	0.910
Floor insulation 150mm (k=0.022)	0.072	0.926	0.081	0.866
Floor insulation 250mm (k=0.038)	0.076	0.927	0.070	0.916

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

### Temperature Distribution



**On-site Checklist**

- Ensure cavity wall insulation carries on at least 150mm below the top of the floor insulation
- Ensure floor insulation tightly abuts the blockwork wall

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-074

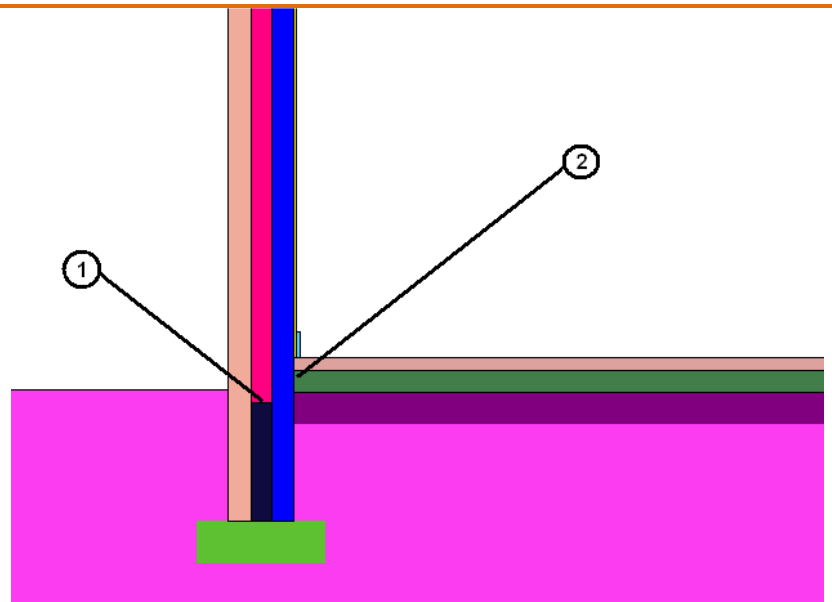
Issued : 28<sup>th</sup> January 2014

Issued by Plasmor Ltd

<b>Ground Floor</b>  Table K.1 Ref E5 Approved $\psi$ -value = 0.16 W/mK	External wall construction	Brick outer, 100mm cavity, <b>100mm Fibolite 3.6N block inner leaf</b> , internal finish
	Ground floor construction	Solid concrete floor, insulation above slab, 75mm screed finish

### Key Points

1. Ensure wall insulation is carried down at least 150mm below the top of the floor insulation.
2. Floor insulation must tightly abut the blockwork inner leaf



### Calculated $\psi$ -values and $f$ -values for solid concrete floor

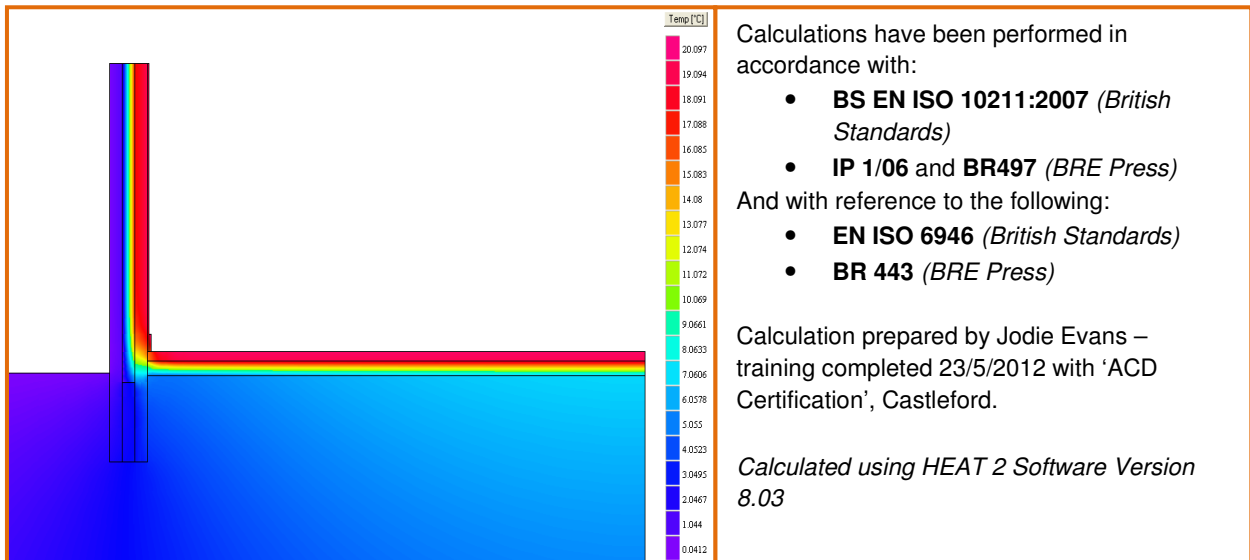
	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m·k	$f$ -value	$\Psi$ -value W/m·k	$f$ -value
<b>Wall insulation k=0.036 full-fill</b>				
Floor insulation 100mm (k=0.022)	0.071	0.837	0.068	0.846
Floor insulation 150mm (k=0.022)	0.071	0.871	0.072	0.869
Floor insulation 250mm (k=0.038)	0.080	0.868	0.075	0.854

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.032 full-fill</u>	$\Psi$ -value W/m·k	f-value	$\Psi$ -value W/m·k	f-value
Floor insulation 100mm (k=0.022)	0.072	0.864	0.068	0.850
Floor insulation 150mm (k=0.022)	0.069	0.875	0.072	0.872
Floor insulation 250mm (k=0.038)	0.079	0.873	0.075	0.858

	Fibolite 3.6N inner leaf, plaster finish		Fibolite 3.6N inner leaf, plasterboard on dabs	
<u>Wall insulation k=0.022 partial fill</u>	$\Psi$ -value W/m·k	f-value	$\Psi$ -value W/m·k	f-value
Floor insulation 100mm (k=0.022)	0.062	0.867	0.057	0.842
Floor insulation 150mm (k=0.022)	0.063	0.876	0.064	0.874
Floor insulation 250mm (k=0.038)	0.071	0.874	0.067	0.861

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

### Temperature Distribution



**On-site Checklist**

- Ensure cavity wall insulation carries on at least 150mm below the top of the floor insulation
  
- Ensure floor insulation tightly abuts the blockwork wall

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....



## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-056

Issued : 10<sup>th</sup> January 2014

Issued by Plasmor Ltd

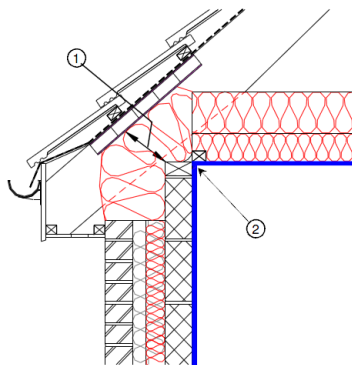
### Eaves insulation at ceiling level

Table K.1 Ref E10  
Approved  $\psi$ -value  
= 0.06 W/mK

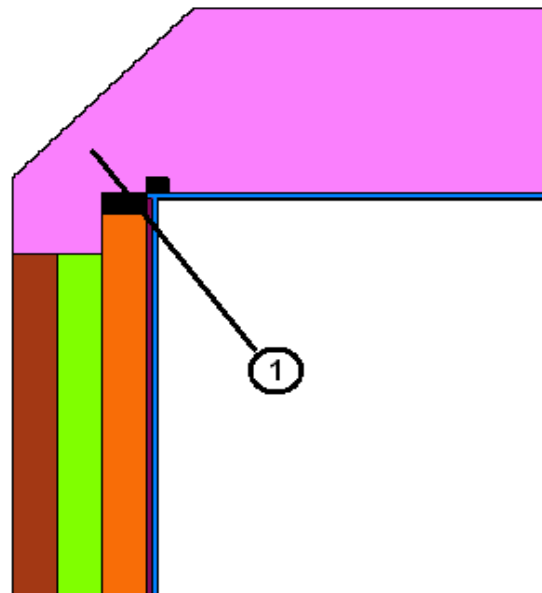
Inner leaf	100 mm Blockwork
Cavity	Insulation
Outer leaf	102 mm Brick $\lambda = 0.77$
Roof	Mineral wool - various thicknesses (see table below)

### Key Points

1. Ensure continuity of insulation between the wall plate and the eaves ventilator



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



### Calculated $\psi$ -values and $f$ -values for different wall and roof constructions

	Wall - Plasmor Fibolite 3.6N inner leaf			
	Roof - 450mm mineral wool – k=0.040 plaster internally		Roof – 450mm mineral wool – k=0.040 plasterboard on dabs internally	
Cavity Insulation	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
100mm $\lambda=0.036$	<b>0.033</b>	0.947	<b>0.032</b>	0.941
100mm $\lambda=0.032$	<b>0.037</b>	0.947	<b>0.036</b>	0.942
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>0.037</b>	0.946	<b>0.036</b>	0.940

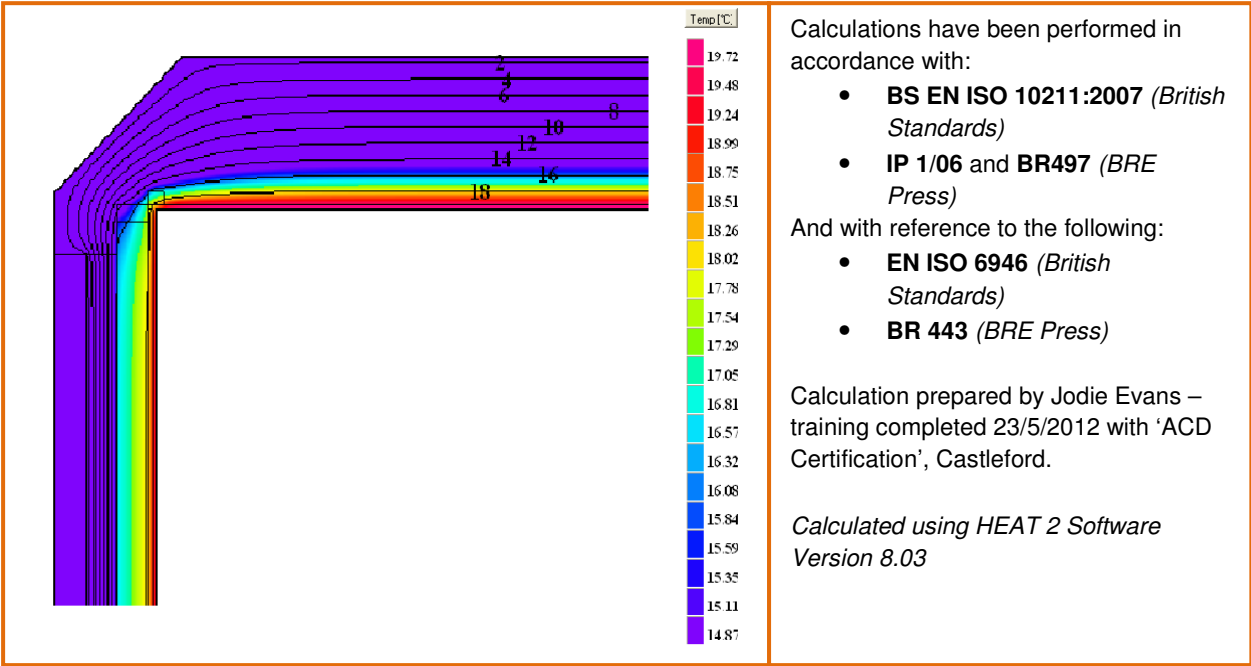
	Wall - Plasmor Fibolite 3.6N inner leaf			
	Roof - 440mm mineral wool – k=0.040 plaster internally		Roof - 440mm mineral wool – k=0.040 plasterboard on dabs internally	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	<b>0.033</b>	0.947	<b>0.032</b>	0.942
100mm λ=0.032	<b>0.036</b>	0.947	<b>0.035</b>	0.941
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	<b>0.036</b>	0.946	<b>0.035</b>	0.942

	Wall - Plasmor Fibolite 3.6N inner leaf			
	Roof - 440mm mineral wool – k=0.044		Roof - 440mm mineral wool – k=0.044	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	<b>0.038</b>	0.943	<b>0.032</b>	0.941
100mm λ=0.032	<b>0.042</b>	0.944	<b>0.040</b>	0.938
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	<b>0.042</b>	0.942	<b>0.040</b>	0.937

	Wall - Plasmor Fibolite 3.6N inner leaf			
	Roof - 400mm mineral wool – k=0.044		Roof - 400mm mineral wool – k=0.044	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	<b>0.036</b>	0.943	<b>0.035</b>	0.937
100mm λ=0.032	<b>0.040</b>	0.944	<b>0.039</b>	0.938
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	<b>0.040</b>	0.942	<b>0.037</b>	0.937

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

**Temperature Distribution**



Calculations have been performed in accordance with:

- **BS EN ISO 10211:2007** (*British Standards*)
- **IP 1/06** and **BR497** (*BRE Press*)

And with reference to the following:

- **EN ISO 6946** (*British Standards*)
- **BR 443** (*BRE Press*)

Calculation prepared by Jodie Evans – training completed 23/5/2012 with ‘ACD Certification’, Castleford.

*Calculated using HEAT 2 Software Version 8.03*

**On-site Checklist**

- Ensure continuity of insulation between the wall plate and the eaves ventilator as per ACD MCI-RE-01



**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-060

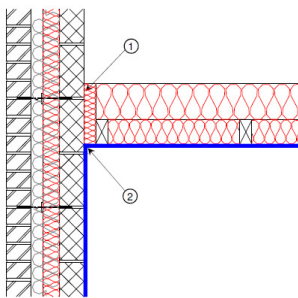
Issued : 15<sup>th</sup> January 2014

Issued by Plasmor Ltd

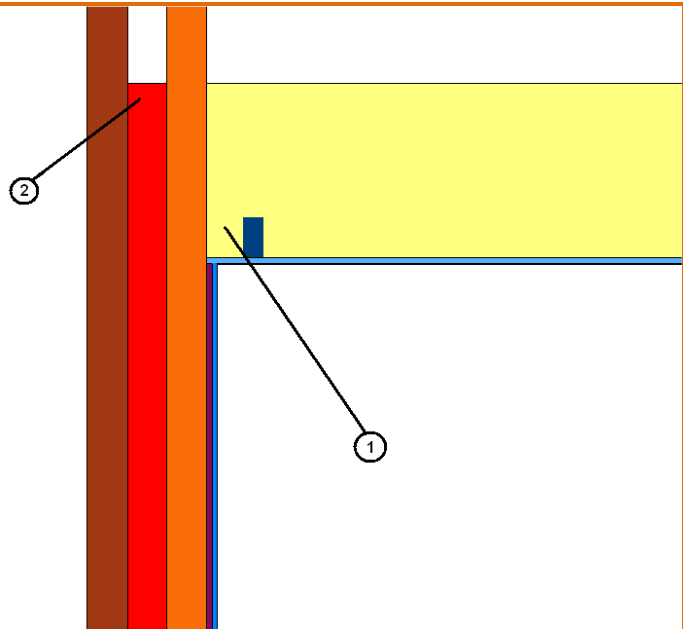
<b>Gable insulation at ceiling level</b> Table K.1 Ref E12 Approved $\psi$ -value = 0.24 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Insulation
	Outer leaf	102 mm Brick $\lambda = 0.77$
	Roof	Mineral wool - various thicknesses (see table below)

### Key Points

1. Pack insulation between the last truss/joist and gable wall
2. Carry the wall insulation at least up to the level of the roof insulation



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



### Calculated $\psi$ -values and $f$ -values for different wall and roof constructions

Roof insulation and wall finish	Wall - Plasmor Fibolite 3.6N inner leaf			
	Roof - 450mm mineral wool – k=0.040 plaster internally		Roof – 450mm mineral wool – k=0.040 plasterboard on dabs internally	
Cavity Insulation	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
100mm $\lambda=0.036$	<b>0.156</b>	0.902	<b>0.151</b>	0.916
100mm $\lambda=0.032$	<b>0.154</b>	0.907	<b>0.149</b>	0.919
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>0.155</b>	0.902	<b>0.150</b>	0.918

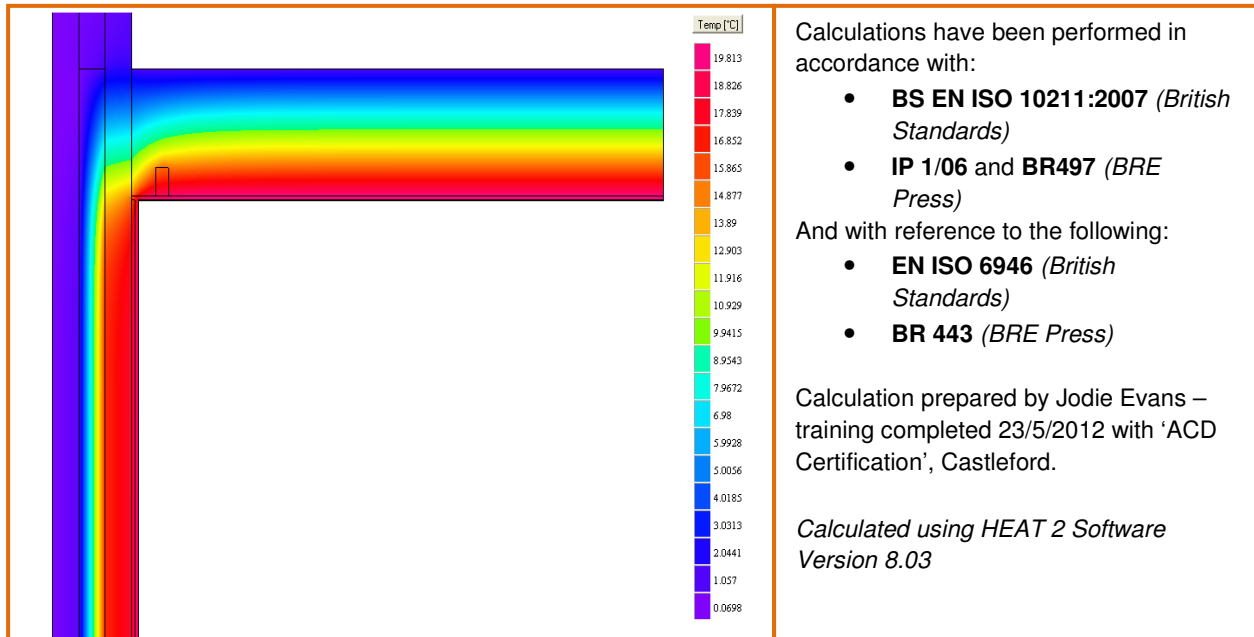
	Wall - Plasmor Fibolite 3.6N inner leaf			
Roof insulation and wall finish	Roof - 440mm mineral wool – k=0.040 plaster internally		Roof - 440mm mineral wool – k=0.040 plasterboard on dabs internally	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	0.154	0.901	0.164	0.897
100mm λ=0.032	0.152	0.906	0.147	0.906
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	0.154	0.909	0.148	0.906

	Wall - Plasmor Fibolite 3.6N inner leaf			
Roof insulation and wall finish	Roof - 440mm mineral wool – k=0.044 plaster internally		Roof - 440mm mineral wool – k=0.044 plasterboard on dabs internally	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	0.154	0.895	0.149	0.915
100mm λ=0.032	0.151	0.899	0.147	0.919
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	0.153	0.909	0.148	0.918

	Wall - Plasmor Fibolite 3.6N inner leaf			
Roof insulation and wall finish	Roof - 400mm mineral wool – k=0.044 plaster internally		Roof - 400mm mineral wool – k=0.044 plasterboard on dabs internally	
Cavity Insulation	Ψ-value W/m·k	f-value	Ψ-value W/m·k	f-value
100mm λ=0.036	0.155	0.905	0.148	0.914
100mm λ=0.032	0.152	0.909	0.147	0.917
50mm partial fill λ = 0.022 (with 50mm clear - low E cavity)	0.153	0.908	0.148	0.917

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

**Temperature Distribution**



**On-site Checklist**

- Ensure insulation is packed between last truss/joist and gable wall
- Carry wall insulation at least up to the level of roof insulation

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-066

Issued : 15<sup>th</sup> January 2014

Issued by Plasmor Ltd

### Intermediate floor within a dwelling

Table K.1 Ref E6  
Approved  $\psi$ -value  
= 0.07 W/mK

External wall construction

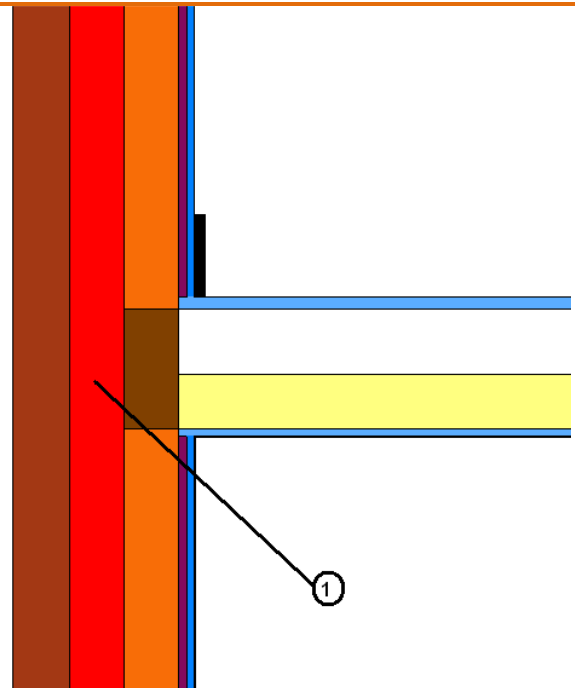
Brick outer, 100mm insulated cavity,  
100mm Fibolite block inner leaf

Intermediate floor

220mm timber joists, 22mm chipboard floor finish, plasterboard ceiling below. 100mm mineral wool between timber floor joists

### Key Points

1. Continue cavity wall insulation across floor abutment zone



### Calculated $\psi$ -values and $f$ -values for different cavity insulation systems

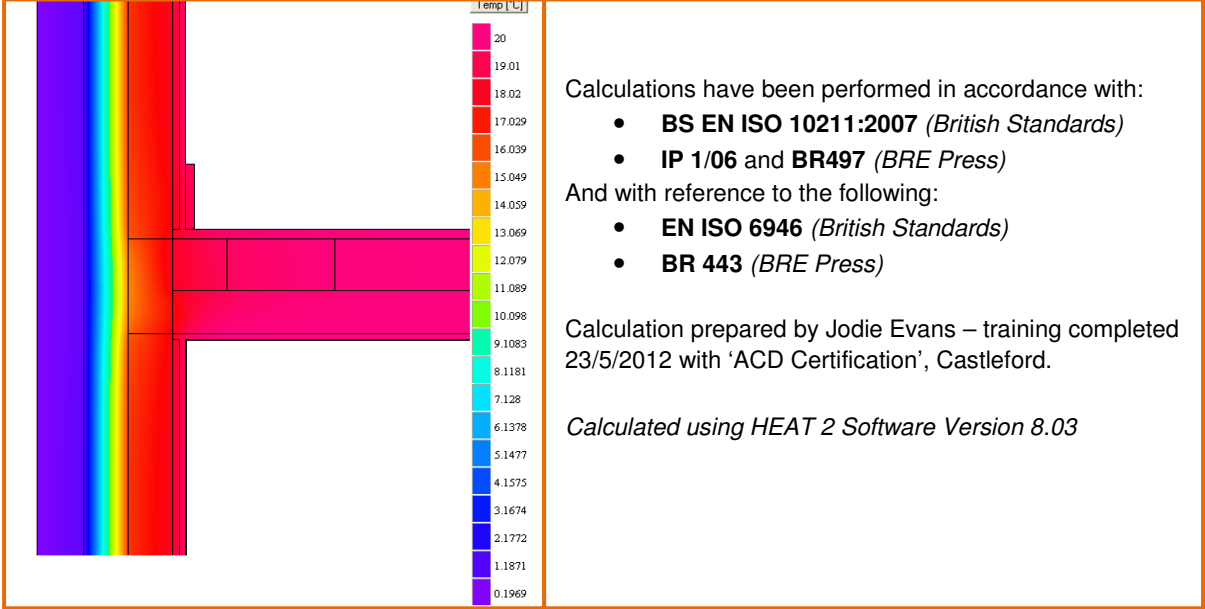
	Plasmor Fibolite 3.6N inner leaf, plaster internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
Wall insulation				
100mm cavity batt (k=0.036)	-0.011	0.963	-0.008	0.964
100mm cavity batt (k=0.032)	-0.007	0.966	-0.007	0.968
50mm partial fill (k=0.022)	-0.010	0.964	-0.008	0.966

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

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**Temperature Distribution**



Calculations have been performed in accordance with:

- **BS EN ISO 10211:2007** (British Standards)
- **IP 1/06** and **BR497** (BRE Press)

And with reference to the following:

- **EN ISO 6946** (British Standards)
- **BR 443** (BRE Press)

Calculation prepared by Jodie Evans – training completed 23/5/2012 with ‘ACD Certification’, Castleford.

*Calculated using HEAT 2 Software Version 8.03*

**On-site Checklist**

- Ensure cavity wall insulation is carried across the floor abutment zone

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....



## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-023

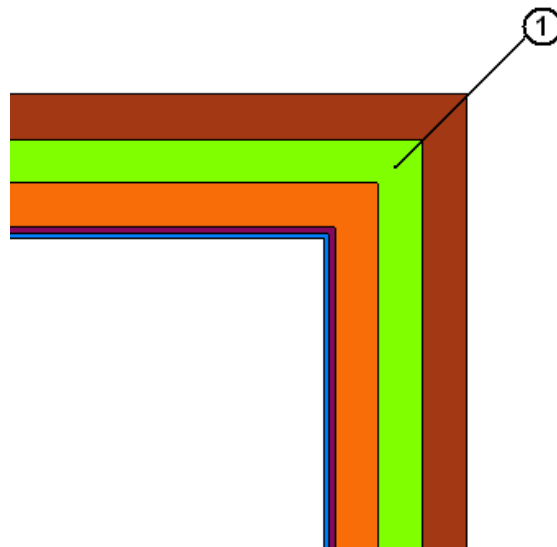
Issued : 30 July 2013

Issued by Plasmor Ltd

<b>Normal corner</b> Table K.1 Ref E16 Approved $\psi$ -value = 0.09 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Insulation
	Outer leaf	102 mm Brick $\lambda = 0.77$

### Key Points

1. Ensure continuity of insulation at the corner



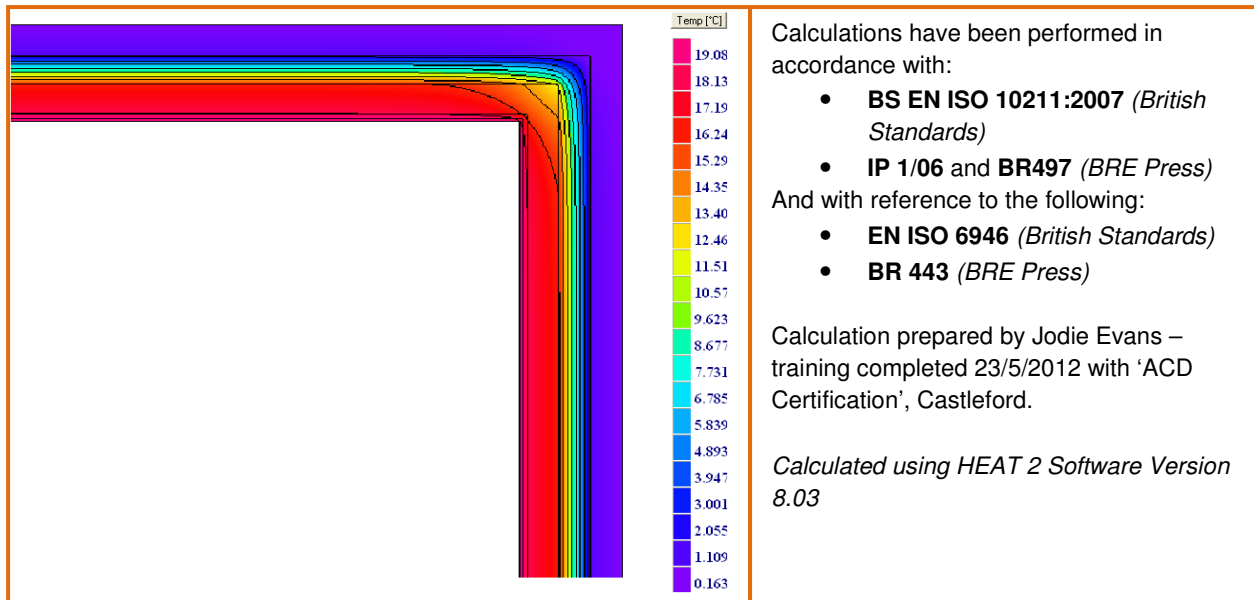
### Calculated $\psi$ -values and $f$ -values for different wall finish and cavity insulation systems

Cavity Insulation	Plasmor Fibolite 3.6N inner leaf, plaster finish internally		Plasmor Fibolite 3.6N inner leaf, plasterboard on dabs	
	$\Psi$ -value W/m.k	$f$ -value	$\Psi$ -value W/m.k	$f$ -value
100mm $\lambda=0.036$	<b>0.060</b>	0.908	<b>0.057</b>	0.902
100mm $\lambda=0.032$	<b>0.056</b>	0.915	<b>0.054</b>	0.910
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>0.056</b>	0.912	<b>0.053</b>	0.908

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

	Plasmor Fibolite 7.3N inner leaf, plaster finish internally		Plasmor Fibolite 7.3N inner leaf, plasterboard on dabs	
Cavity Insulation	$\Psi$ -value W/m.k	f-value	$\Psi$ -value W/m.k	f-value
100mm $\lambda=0.036$	<b>0.062</b>	0.907	<b>0.059</b>	0.905
100mm $\lambda=0.032$	<b>0.058</b>	0.915	<b>0.055</b>	0.910
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>0.057</b>	0.912	<b>0.055</b>	0.907

### Temperature Distribution



**On-site Checklist**

- Ensure continuity of insulation at the corner

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....

## Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ -value)

Certificate No: PTM-024

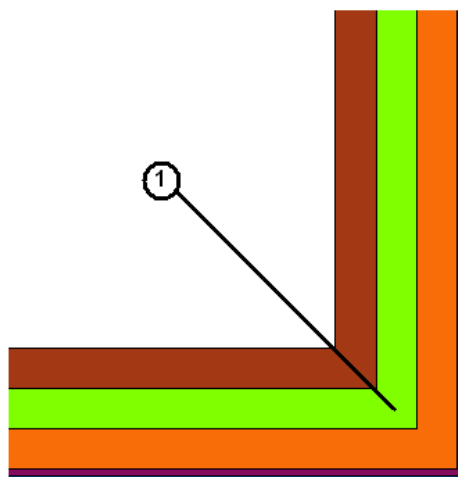
Issued : 13<sup>th</sup> January 2014

Issued by Plasmor Ltd

<b>Inverted corner</b> Table K.1 Ref E17 Approved $\psi$ -value = -0.09 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Insulation
	Outer leaf	102 mm Brick $\lambda = 0.77$

### Key Points

1. Ensure continuity of insulation at the corner



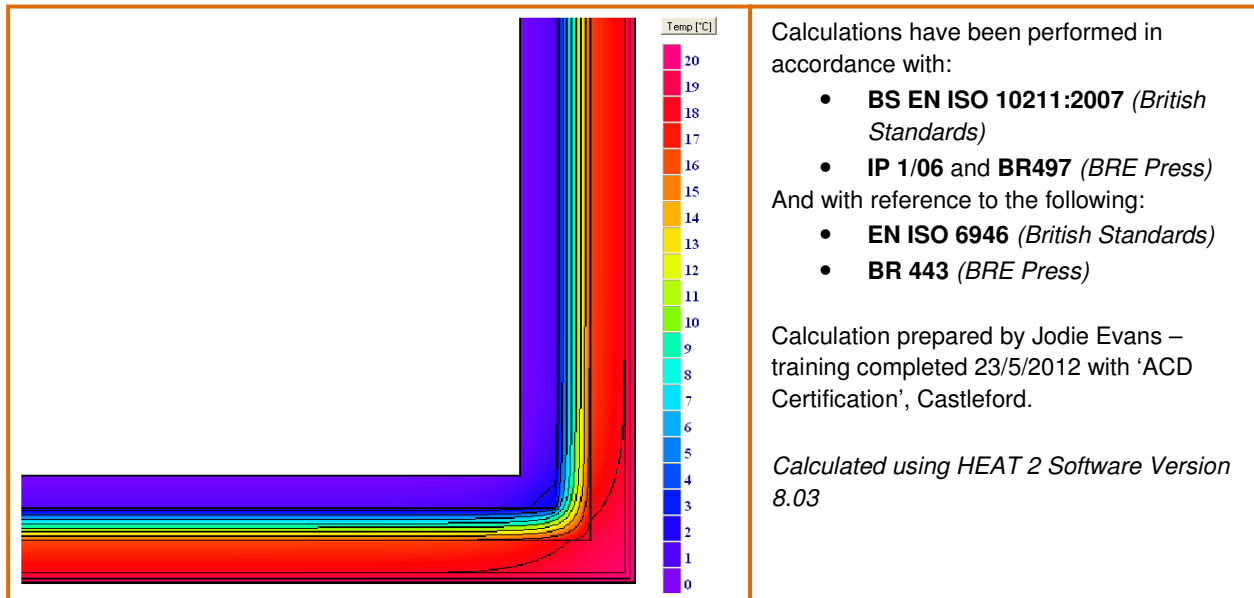
### Calculated $\psi$ -values and $f$ -values for different wall finish and cavity insulation systems

Cavity Insulation	Plasmor Fibolite 3.6N inner leaf, <u>plaster finish internally</u>		Plasmor Fibolite 3.6N inner leaf, <u>plasterboard on dabs</u>	
	$\Psi$ -value W/m-k	$f$ -value	$\Psi$ -value W/m-k	$f$ -value
100mm $\lambda=0.036$	<b>-0.108</b>	0.963	<b>-0.108</b>	0.965
100mm $\lambda=0.032$	<b>-0.099</b>	0.966	<b>-0.099</b>	0.998
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>-0.109</b>	0.964	<b>-0.099</b>	0.998

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

	Plasmor Fibolite 7.3N inner leaf, <u>plaster finish internally</u>		Plasmor Fibolite 7.3N inner leaf, <u>plasterboard on dabs</u>	
Cavity Insulation	$\Psi$ -value W/m <sup>2</sup> ·K	f-value	$\Psi$ -value W/m <sup>2</sup> ·K	f-value
100mm $\lambda=0.036$	<b>-0.110</b>	0.962	<b>-0.109</b>	0.964
100mm $\lambda=0.032$	<b>-0.101</b>	0.966	<b>-0.100</b>	0.967
50mm partial fill $\lambda = 0.022$ (with 50mm clear - low E cavity)	<b>-0.110</b>	0.964	<b>-0.099</b>	0.966

### Temperature Distribution



**On-site Checklist**

- Ensure continuity of insulation at the corner

**Signed:**

**Name** .....

**Site name**.....

**Plot Number (s)**.....

**Date**.....