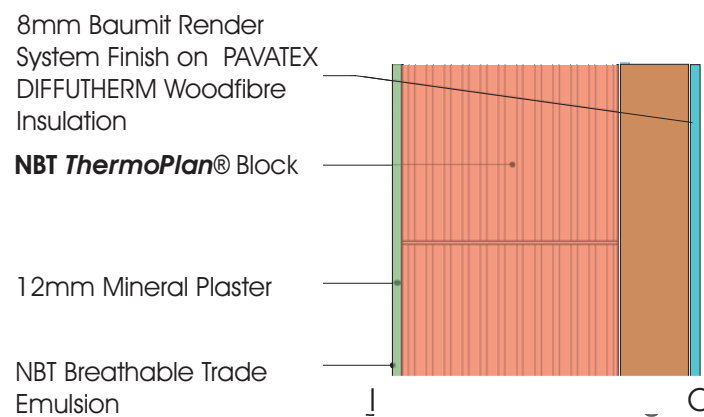


## *NBT ThermoPlan® Plus 11 System*

### Thin Bed Insulating Solid Wall System



## U-Value & Interstitial Moisture Data

Data Produced Using " JPA Designer Version 3.0315"

"The Science of Nature - The Future of Construction"

#### **Natural Building Technologies Ltd**

The Hangar, Worminghall Road,  
Oakley, Buckinghamshire.  
HP18 9UL

Tel: 01844 338338

Fax: 01844 338525

Email: [info@natural-building.co.uk](mailto:info@natural-building.co.uk)



Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 240 60 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 60mm	60.0	0.043	1.395	25.00	1.50
ThermoPlan ZT / ZV 11 240 Block	240.0	0.110	2.182	20.83	5.00
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.27W/m<sup>2</sup>K**

U-value, Combined Method : 0.27 W/m<sup>2</sup>K (upper/lower limit 3.774 / 3.774 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface

Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

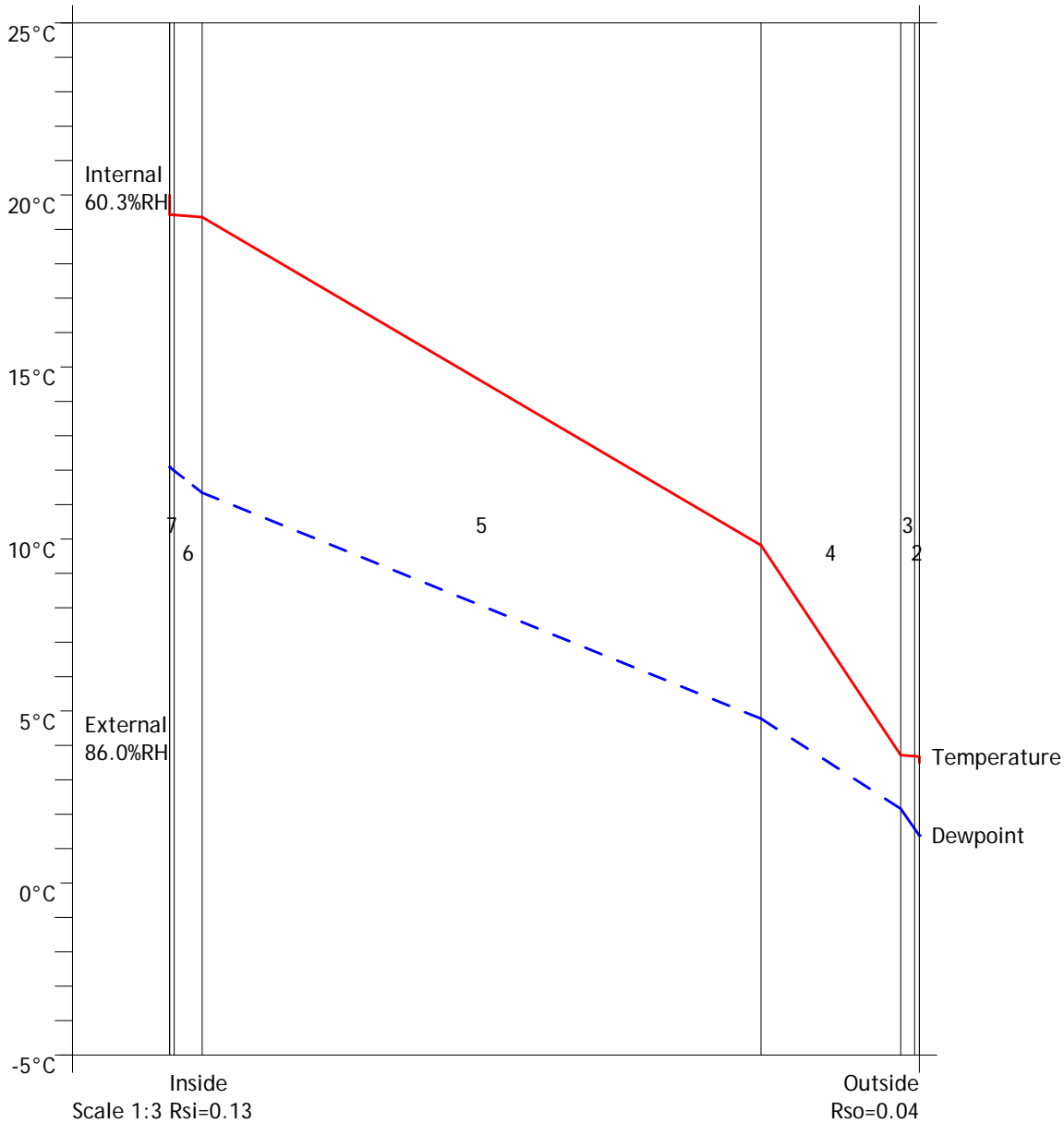
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.7	1.6	0.68	0.80			No
4 Pavatex Diffutherm 60mm	3.7	2.2	0.71	0.80			No
5 ThermoPlan ZT / ZV 11 240 Block	9.8	4.8	0.86	1.21			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.4	11.3	1.34	2.25			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.4	12.0	1.40	2.25			No
8 Inside surface resistance	19.4	12.1	1.41	2.26			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



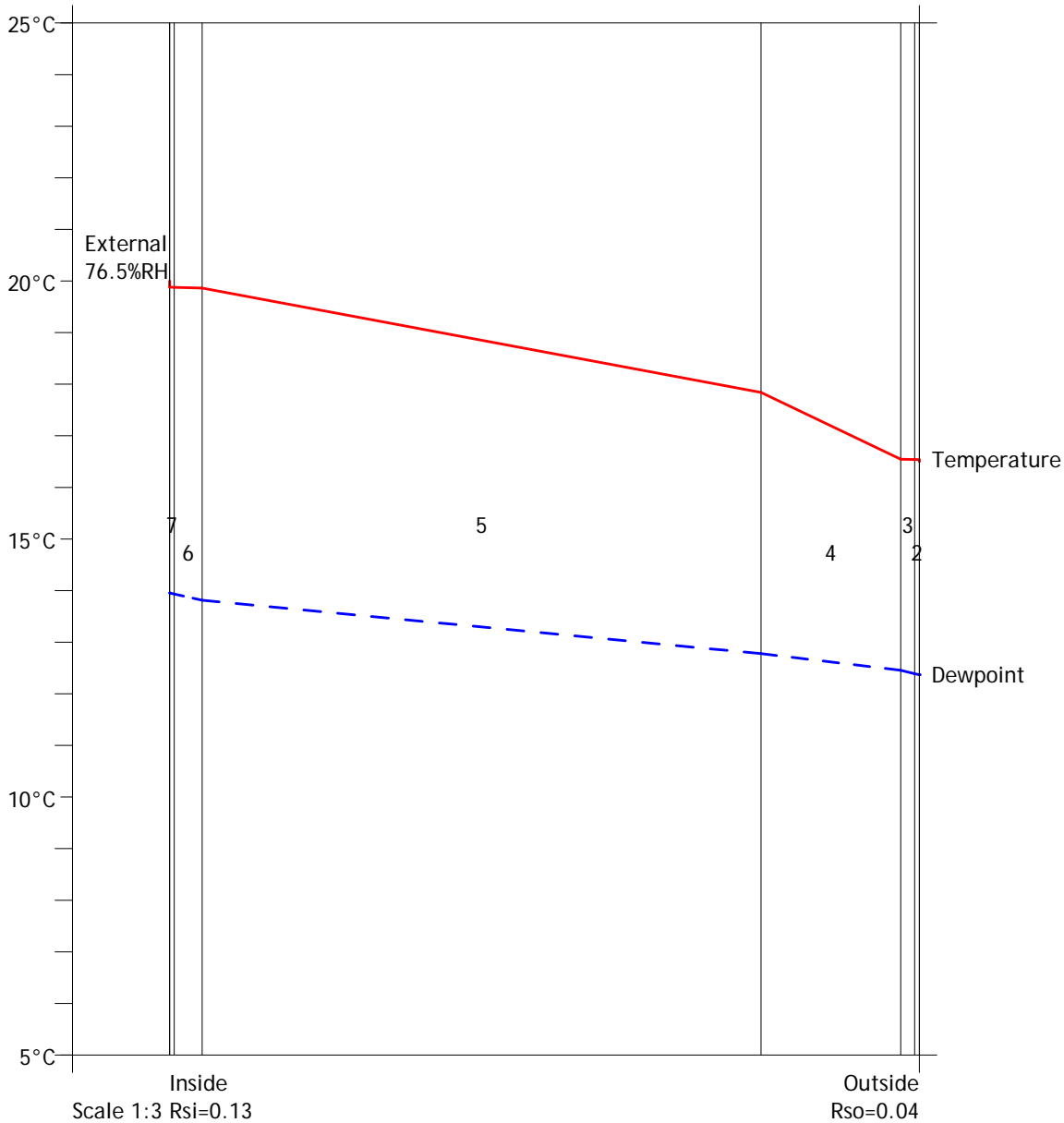
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 60mm	16.5	12.5	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 240 Block	17.8	12.8	1.47	2.04			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





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Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 240 80 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumiBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumiBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 80mm	80.0	0.043	1.860	25.00	2.00
ThermoPlan ZT / ZV 11 240 Block	240.0	0.110	2.182	20.83	5.00
BaumiBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumiBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.24W/m<sup>2</sup>K**

U-value, Combined Method : 0.24 W/m<sup>2</sup>K (upper/lower limit 4.239 / 4.239 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

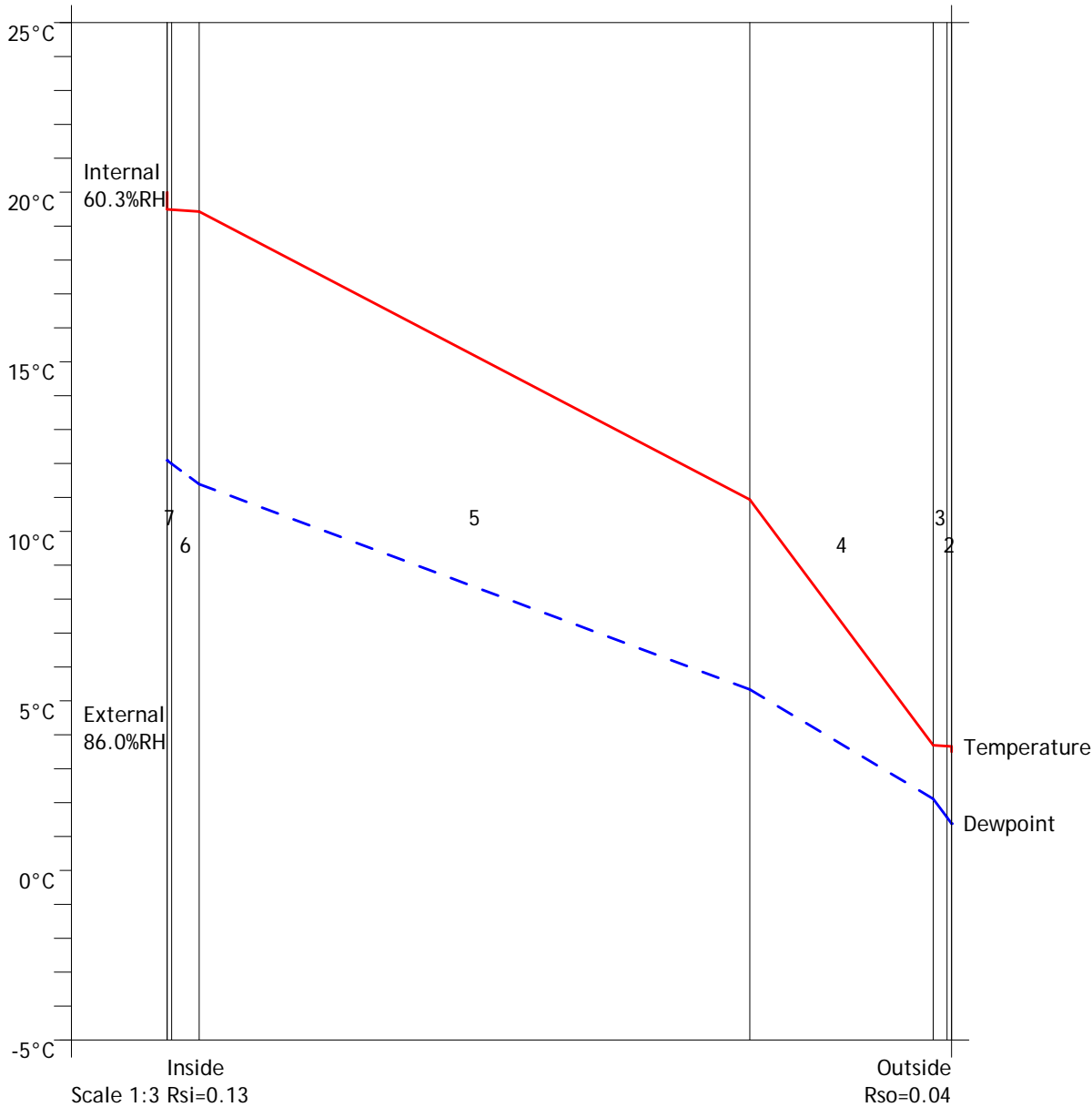
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.7	1.6	0.68	0.79			No
4 Pavatex Diffutherm 80mm	3.7	2.1	0.71	0.80			No
5 ThermoPlan ZT / ZV 11 240 Block	10.9	5.3	0.89	1.31			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.4	11.4	1.35	2.26			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.26			No
8 Inside surface resistance	19.5	12.1	1.41	2.26			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



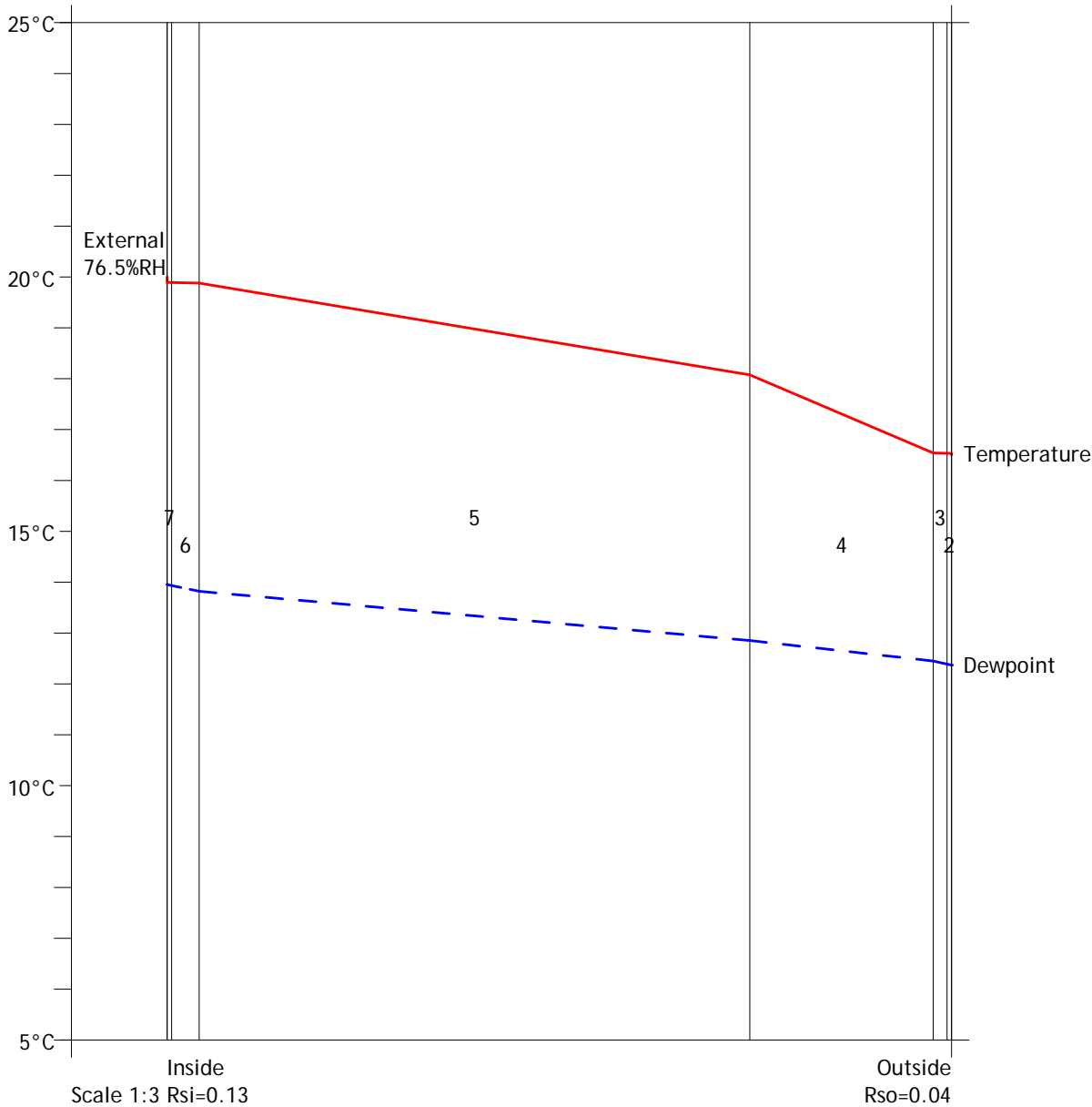
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 80mm	16.5	12.5	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 240 Block	18.1	12.9	1.48	2.07			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH



### Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

### Construction type

Element : Wall - ZT/ ZV 11 - 240 100 DIFF

Internal surface emissivity : High External surface emissivity : High

### Construction

Construction	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 100mm	100.0	0.043	2.326	25.00	2.50
ThermoPlan ZT / ZV 11 240 Block	240.0	0.110	2.182	20.83	5.00
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

### U-value - 0.21W/m<sup>2</sup>K

U-value, Combined Method : 0.21 W/m<sup>2</sup>K (upper/lower limit 4.705 / 4.705 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

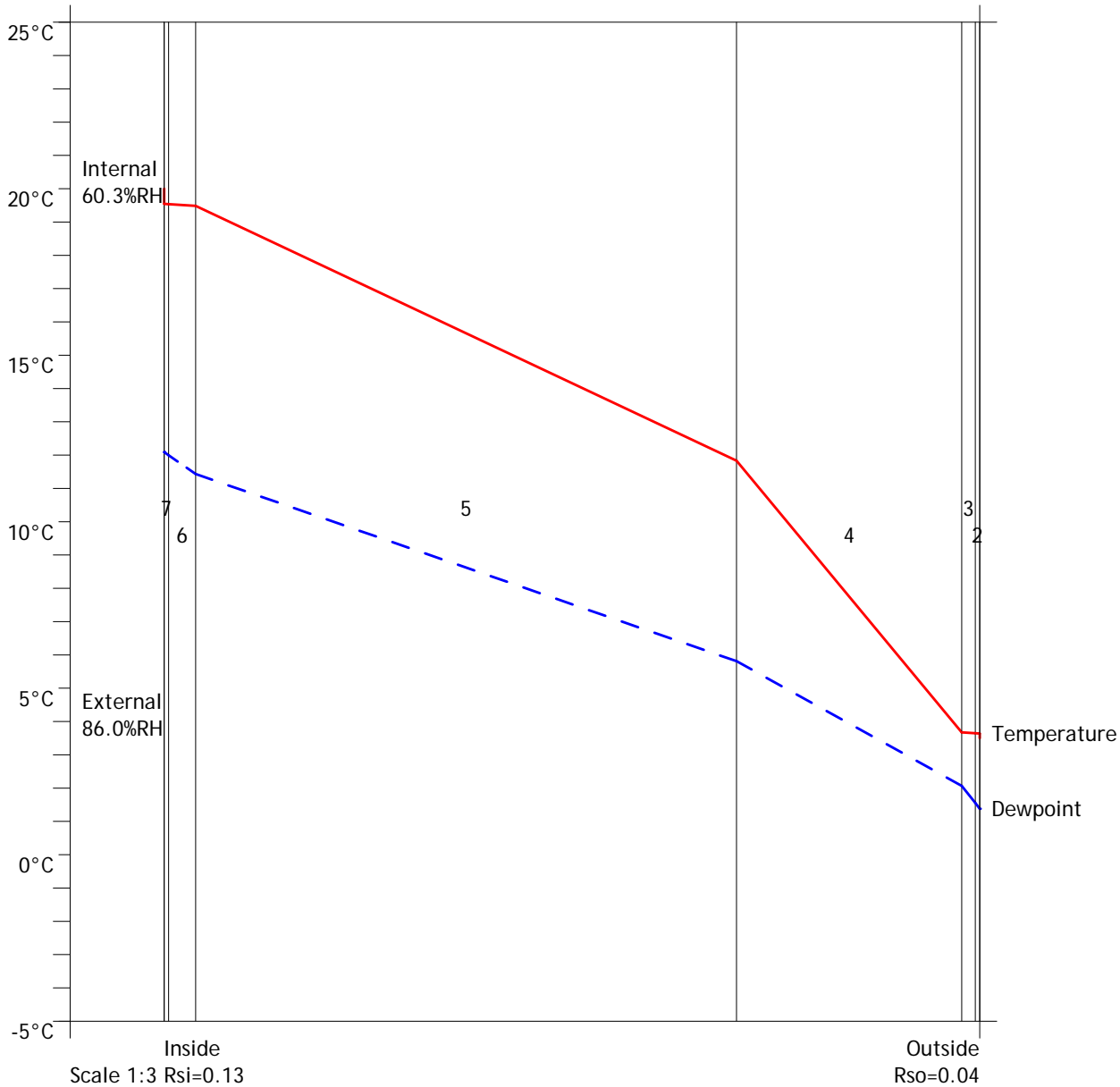
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.6	0.68	0.79			No
4 Pavatex Diffutherm 100mm	3.7	2.1	0.71	0.79			No
5 ThermoPlan ZT / ZV 11 240 Block	11.8	5.8	0.92	1.39			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.4	1.35	2.26			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.27			No
8 Inside surface resistance	19.5	12.1	1.41	2.27			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



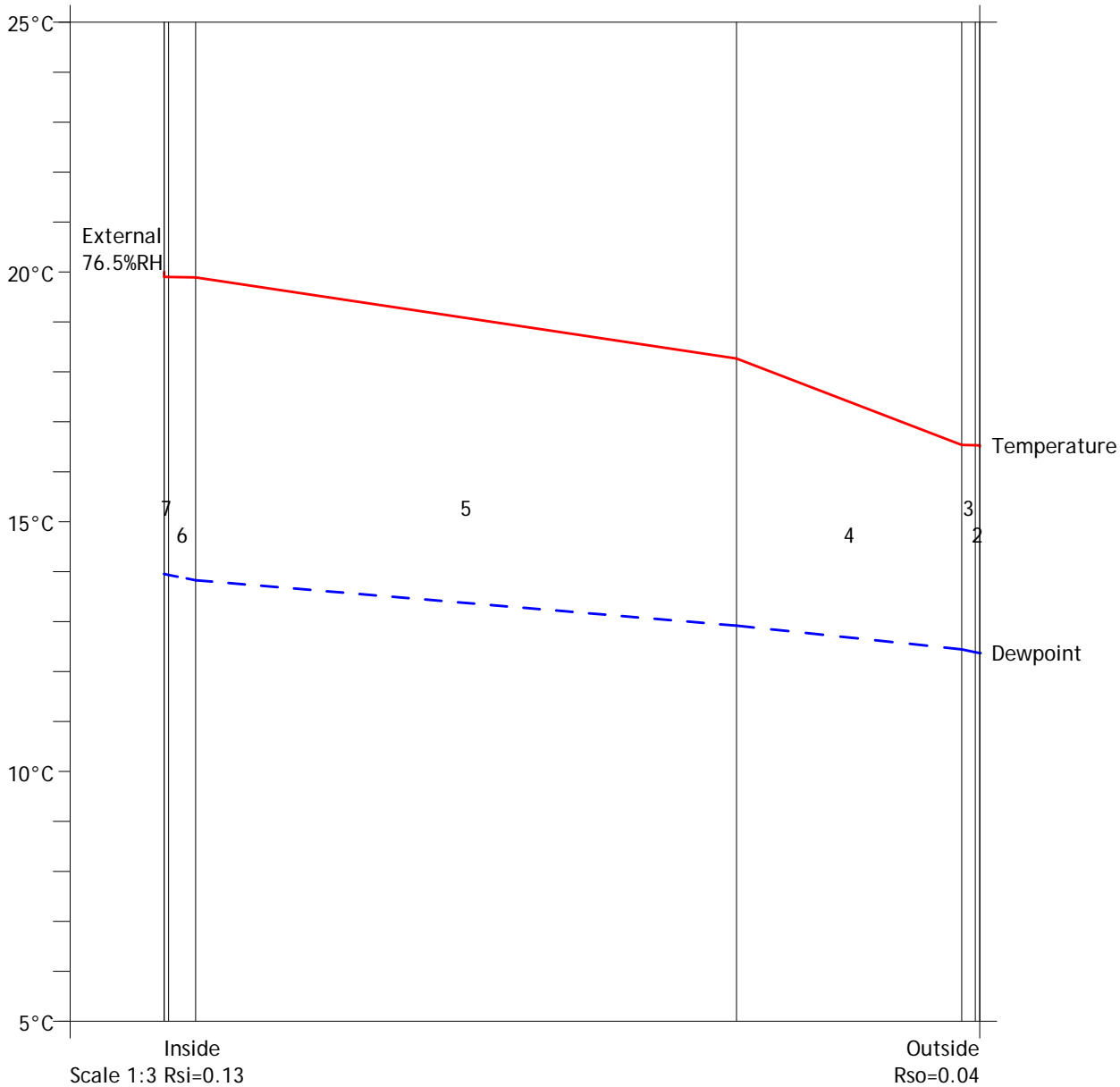
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 100mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 240 Block	18.3	12.9	1.49	2.10			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH



**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 300 60 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 60mm	60.0	0.043	1.395	25.00	1.50
ThermoPlan ZT / ZV 11 300 Block	300.0	0.110	2.727	20.83	6.25
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.23W/m<sup>2</sup>K**

U-value, Combined Method : 0.23 W/m<sup>2</sup>K (upper/lower limit 4.319 / 4.319 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

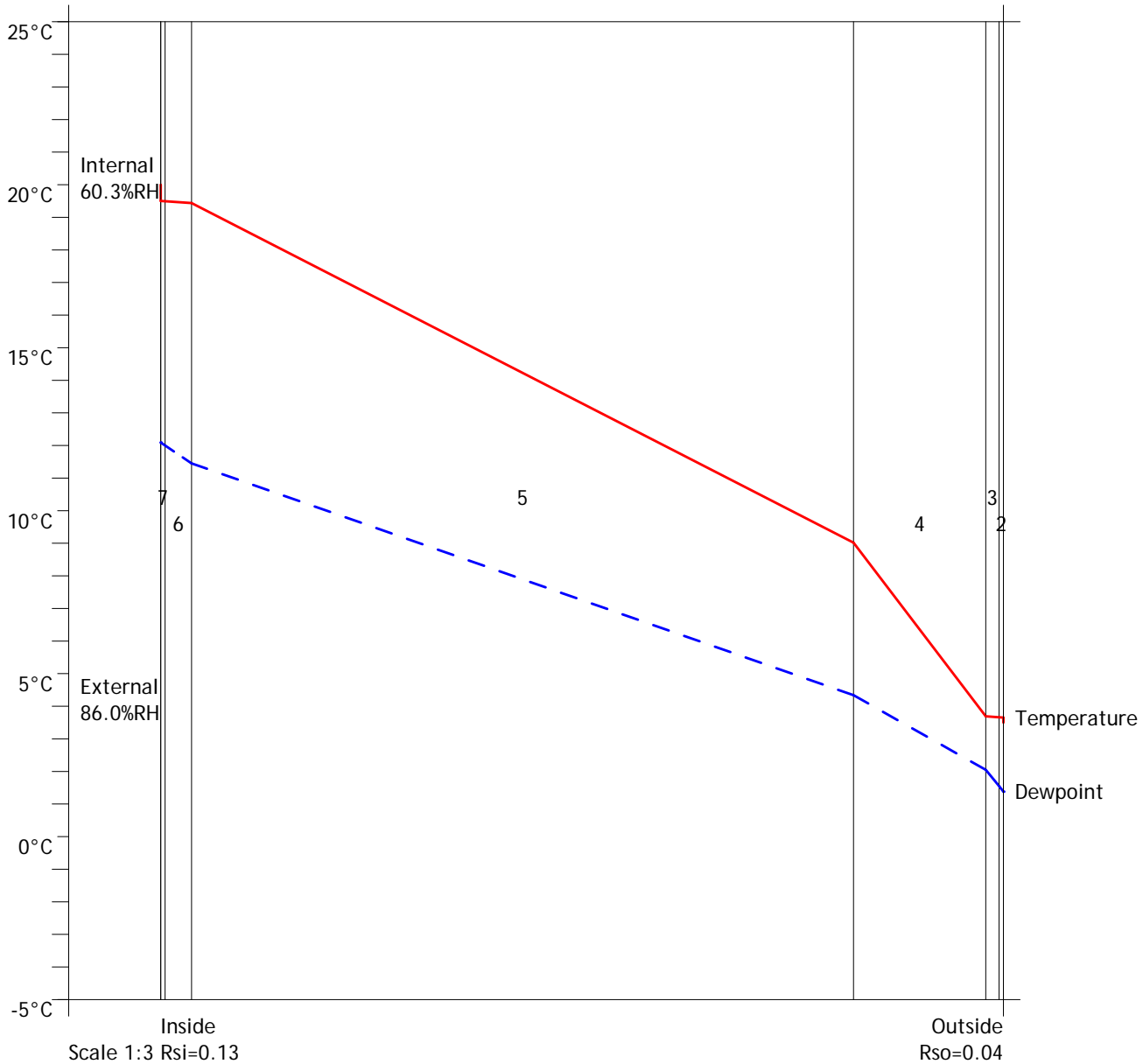
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.7	1.6	0.68	0.79			No
4 Pavatex Diffutherm 60mm	3.7	2.1	0.71	0.80			No
5 ThermoPlan ZT / ZV 11 300 Block	9.0	4.3	0.83	1.15			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.4	11.5	1.35	2.26			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.26			No
8 Inside surface resistance	19.5	12.1	1.41	2.27			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



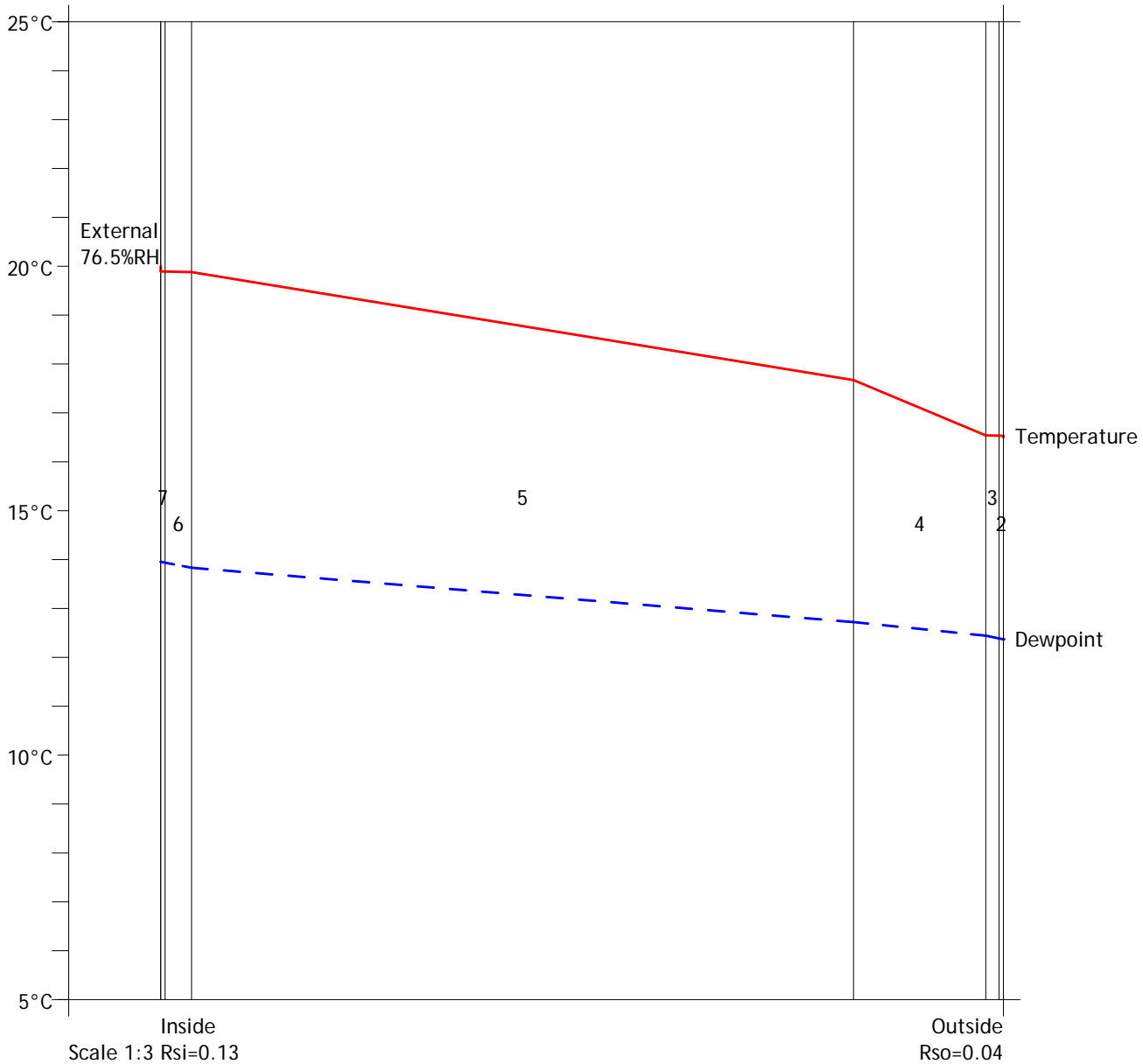
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 60mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 300 Block	17.7	12.7	1.47	2.02			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 300 80 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 80mm	80.0	0.043	1.860	25.00	2.00
ThermoPlan ZT / ZV 11 300 Block	300.0	0.110	2.727	20.83	6.25
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.21W/m<sup>2</sup>K**

U-value, Combined Method : 0.21 W/m<sup>2</sup>K (upper/lower limit 4.784 / 4.784 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

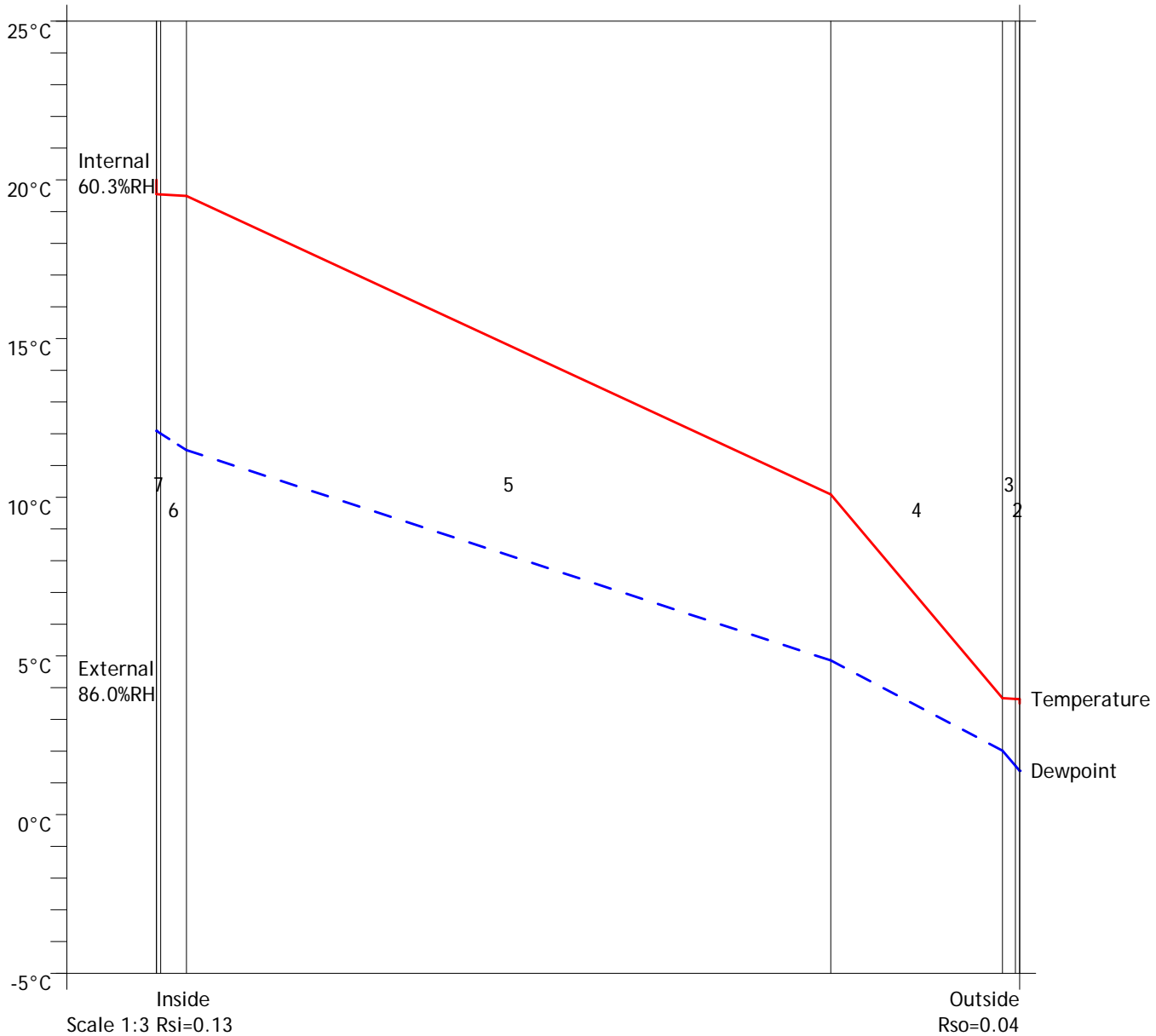
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 80mm	3.7	2.0	0.71	0.79			No
5 ThermoPlan ZT / ZV 11 300 Block	10.1	4.9	0.86	1.23			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.5	1.35	2.26			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.27			No
8 Inside surface resistance	19.6	12.1	1.41	2.27			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



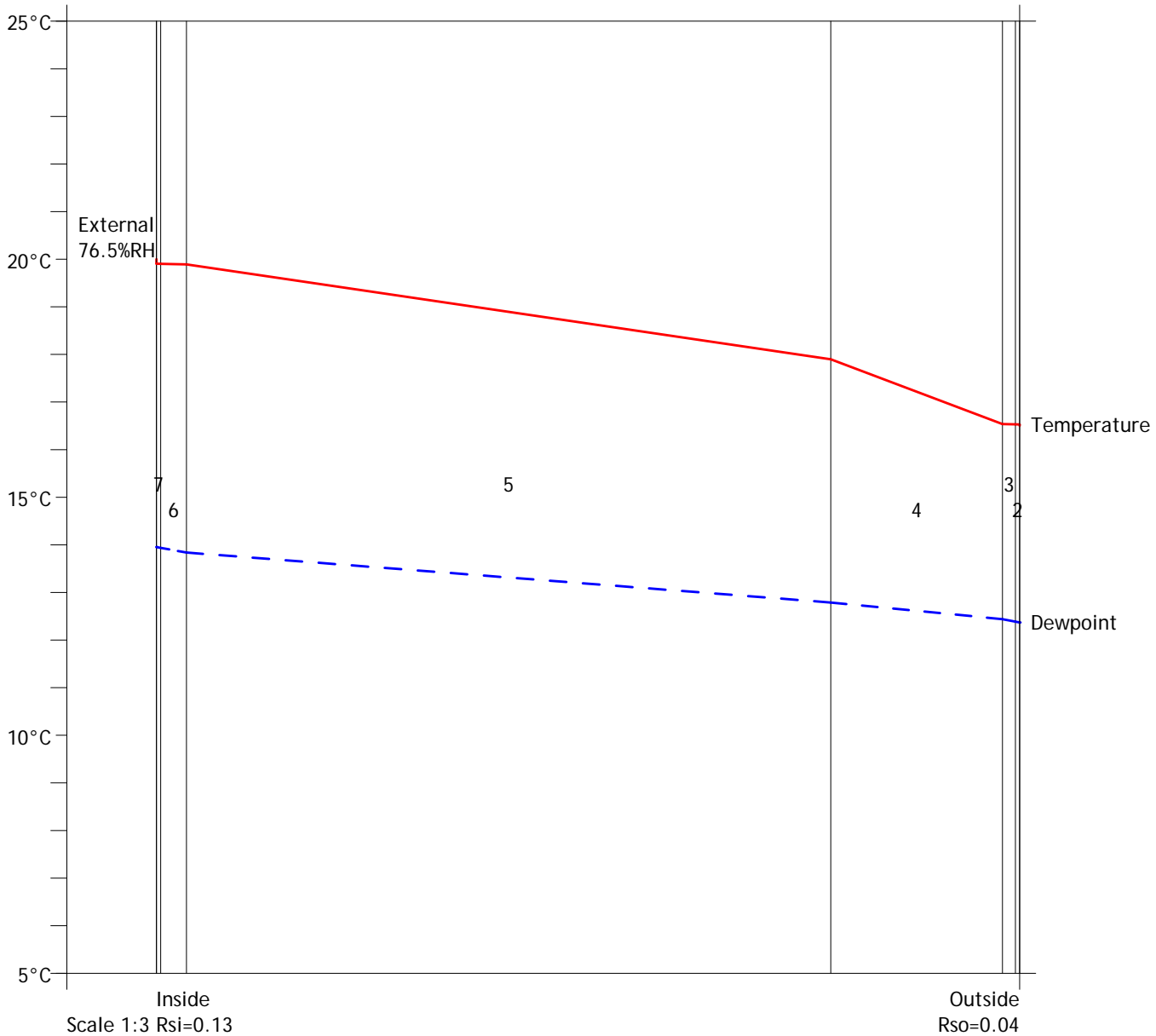
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 80mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 300 Block	17.9	12.8	1.48	2.05			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

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The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 300 100 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumiBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumiBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 100mm	100.0	0.043	2.326	25.00	2.50
ThermoPlan ZT / ZV 11 300 Block	300.0	0.110	2.727	20.83	6.25
BaumiBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumiBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.19W/m<sup>2</sup>K**

U-value, Combined Method : 0.19 W/m<sup>2</sup>K (upper/lower limit 5.250 / 5.250 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

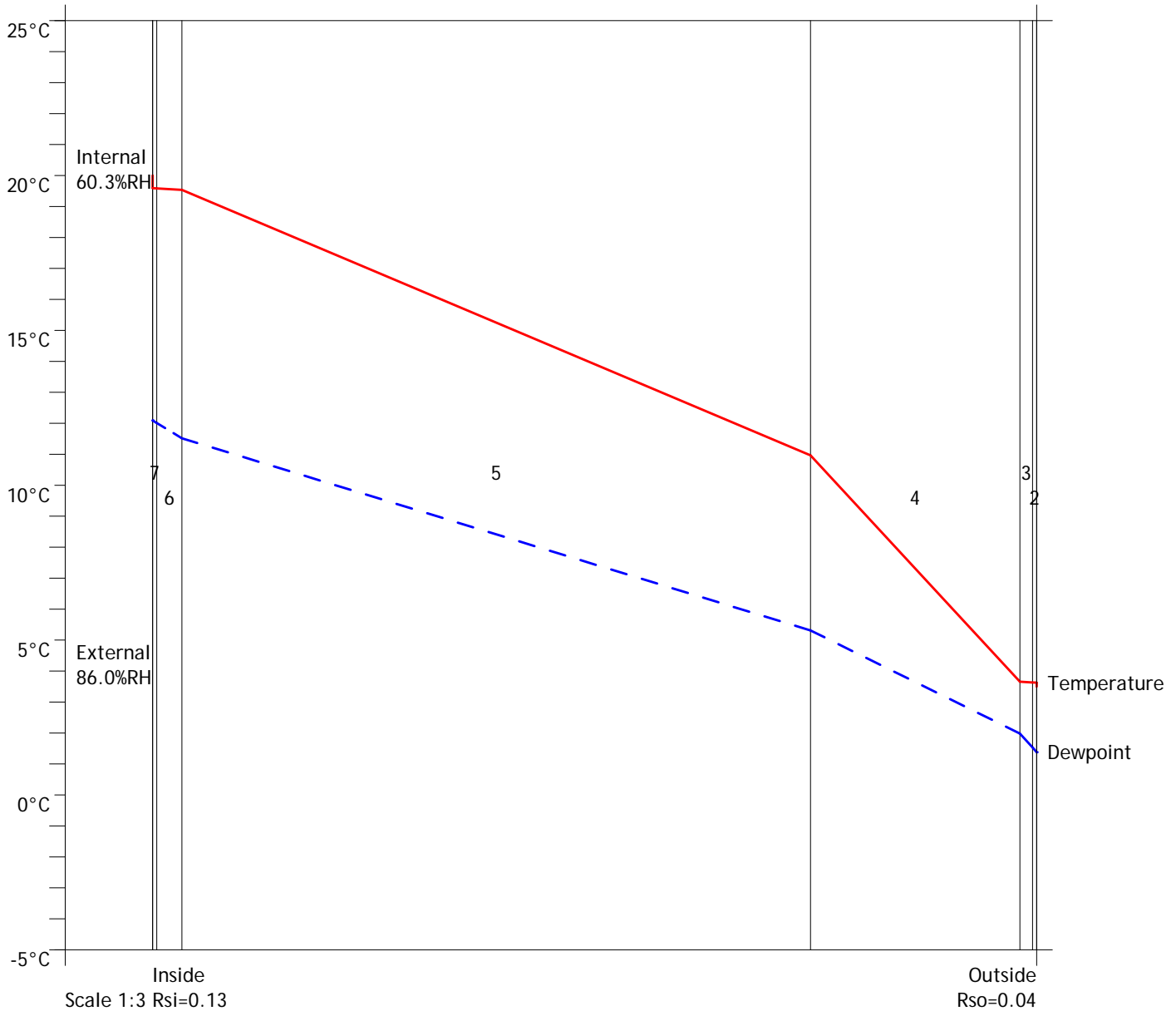
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 100mm	3.7	2.0	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 300 Block	11.0	5.3	0.89	1.31			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.5	1.36	2.27			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.28			No
8 Inside surface resistance	19.6	12.1	1.41	2.28			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



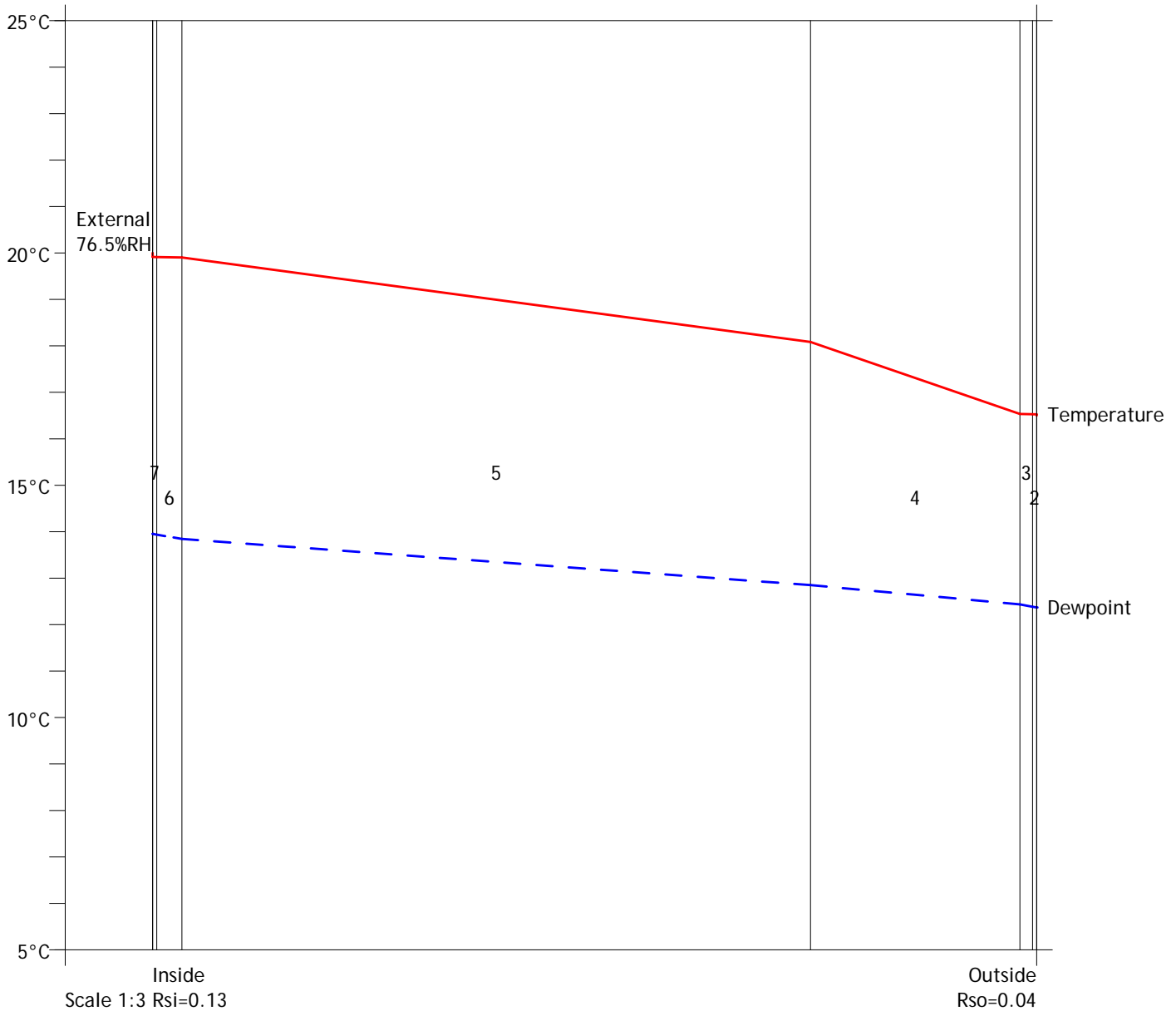
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaimitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaimitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 100mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 300 Block	18.1	12.9	1.48	2.07			No
6 BaimitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaimitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





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HP18 9UL

T 01844 338338 F 01844 338525

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**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 365 60 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumiBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumiBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 60mm	60.0	0.043	1.395	25.00	1.50
ThermoPlan ZT / ZV 11 365 Block	365.0	0.110	3.318	20.83	7.60
BaumiBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumiBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.20W/m<sup>2</sup>K**

U-value, Combined Method : 0.20 W/m<sup>2</sup>K (upper/lower limit 4.910 / 4.910 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

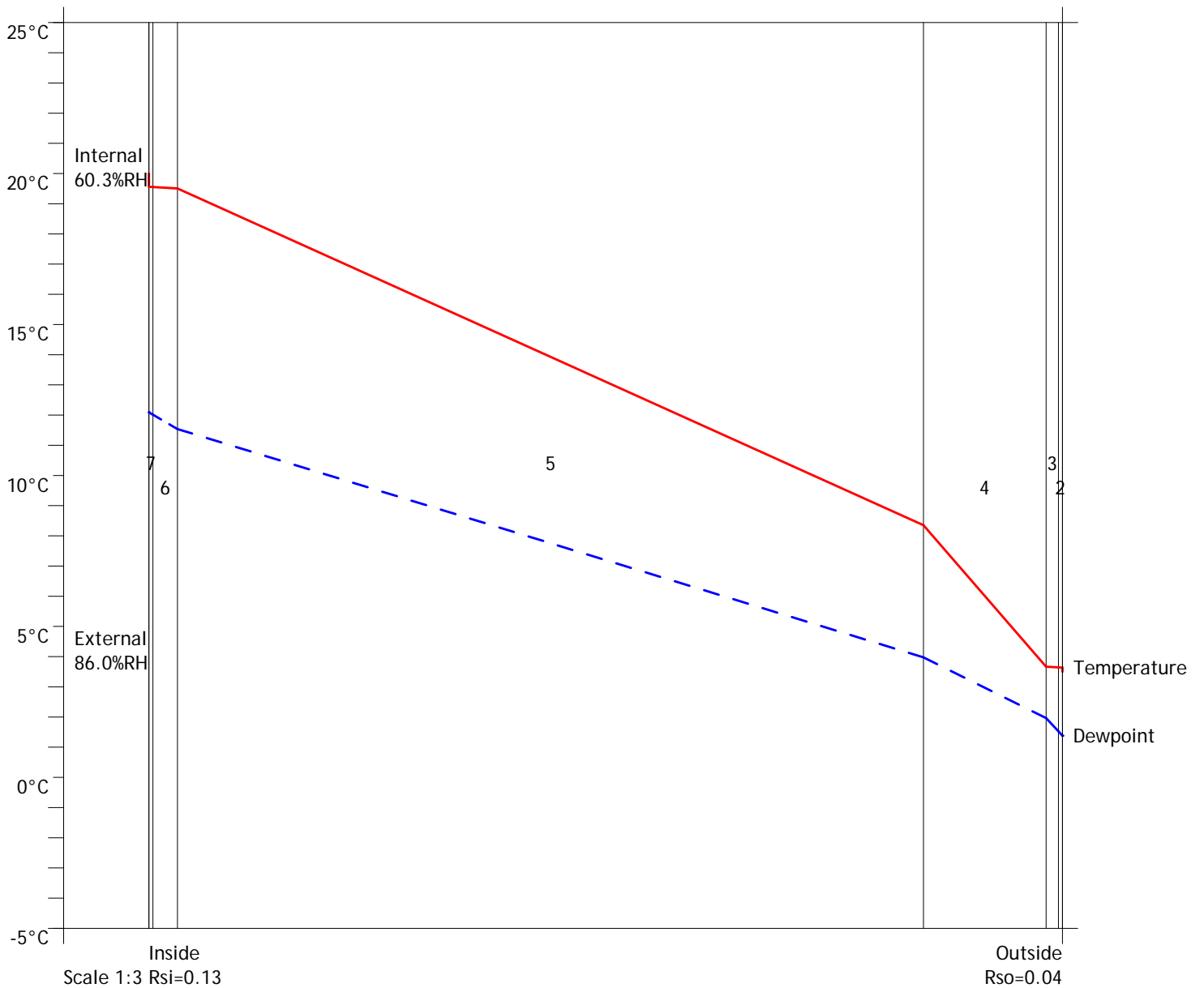
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 60mm	3.7	2.0	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 365 Block	8.4	4.0	0.81	1.10			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.5	1.36	2.27			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.27			No
8 Inside surface resistance	19.6	12.1	1.41	2.27			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



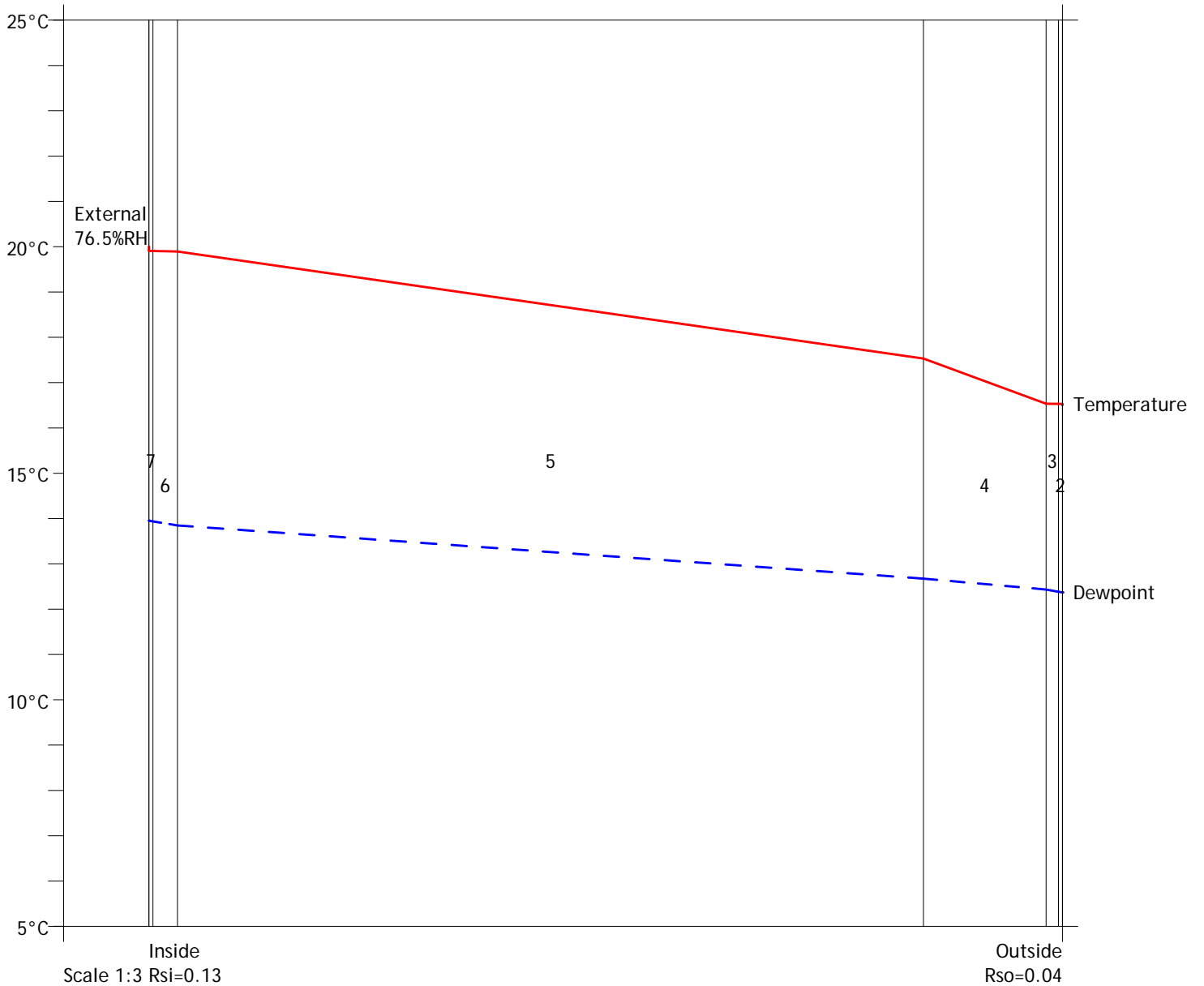
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 60mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 365 Block	17.5	12.7	1.46	2.00			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 365 80 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 80mm	80.0	0.043	1.860	25.00	2.00
ThermoPlan ZT / ZV 11 365 Block	365.0	0.110	3.318	20.83	7.60
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.19W/m<sup>2</sup>K**

U-value, Combined Method : 0.19 W/m<sup>2</sup>K (upper/lower limit 5.375 / 5.375 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

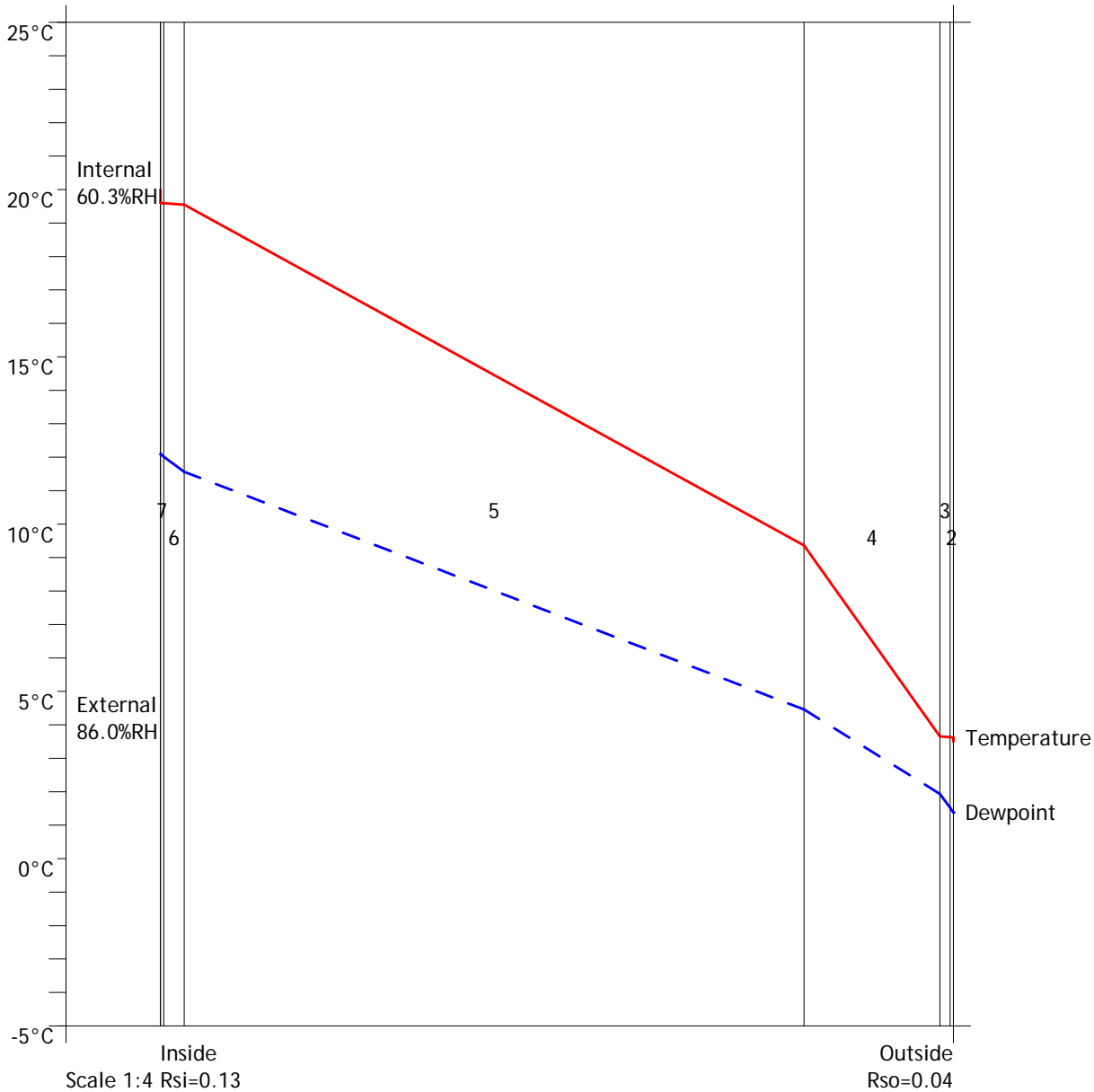
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 80mm	3.7	1.9	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 365 Block	9.4	4.5	0.84	1.18			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.6	1.36	2.27			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.28			No
8 Inside surface resistance	19.6	12.1	1.41	2.28			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



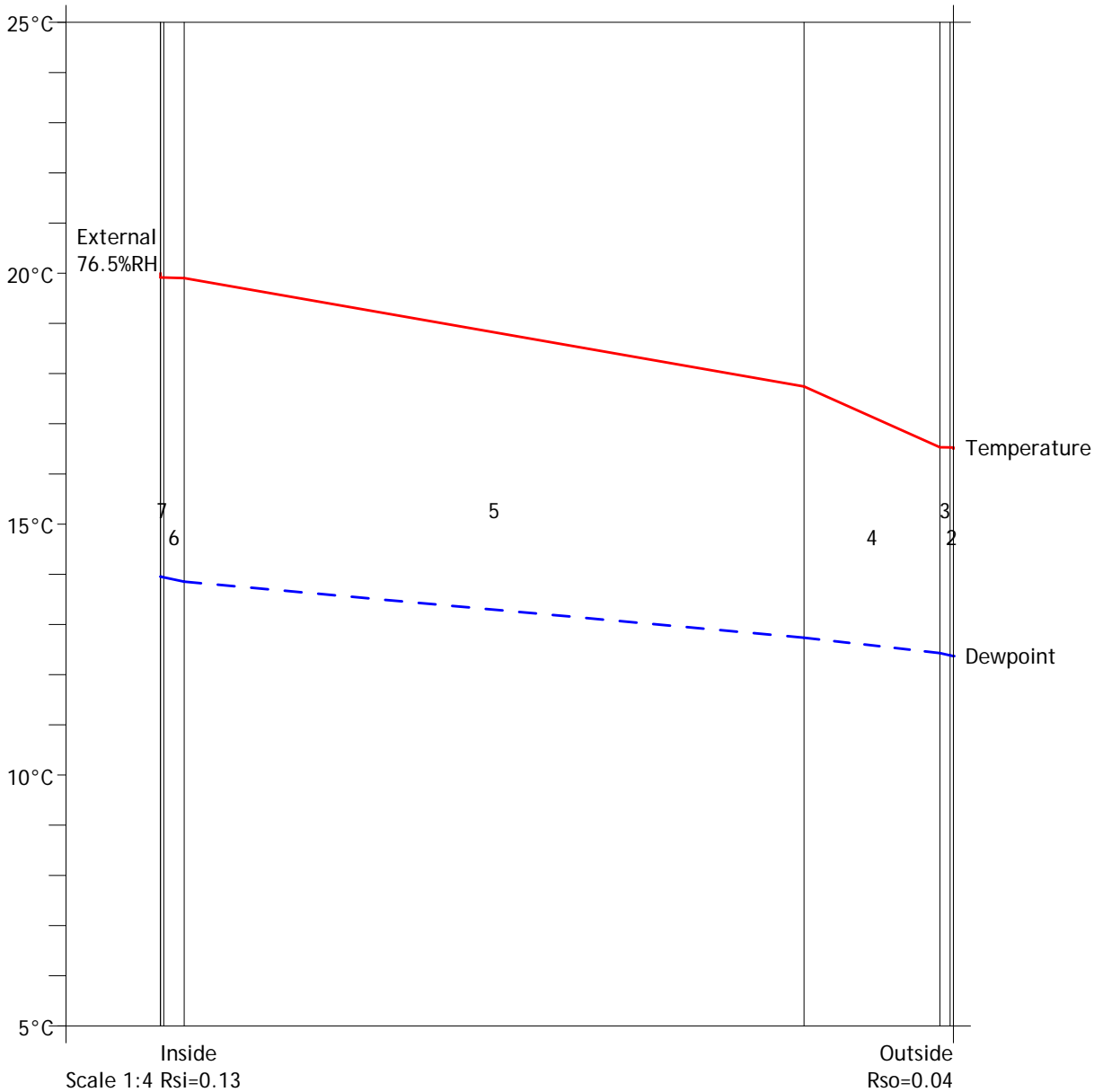
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaimitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaimitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 80mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 365 Block	17.7	12.7	1.47	2.03			No
6 BaimitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
7 BaimitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





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Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

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**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 365 100 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 100mm	100.0	0.043	2.326	25.00	2.50
ThermoPlan ZT / ZV 11 365 Block	365.0	0.110	3.318	20.83	7.60
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.17W/m<sup>2</sup>K**

U-value, Combined Method : 0.17 W/m<sup>2</sup>K (upper/lower limit 5.841 / 5.841 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

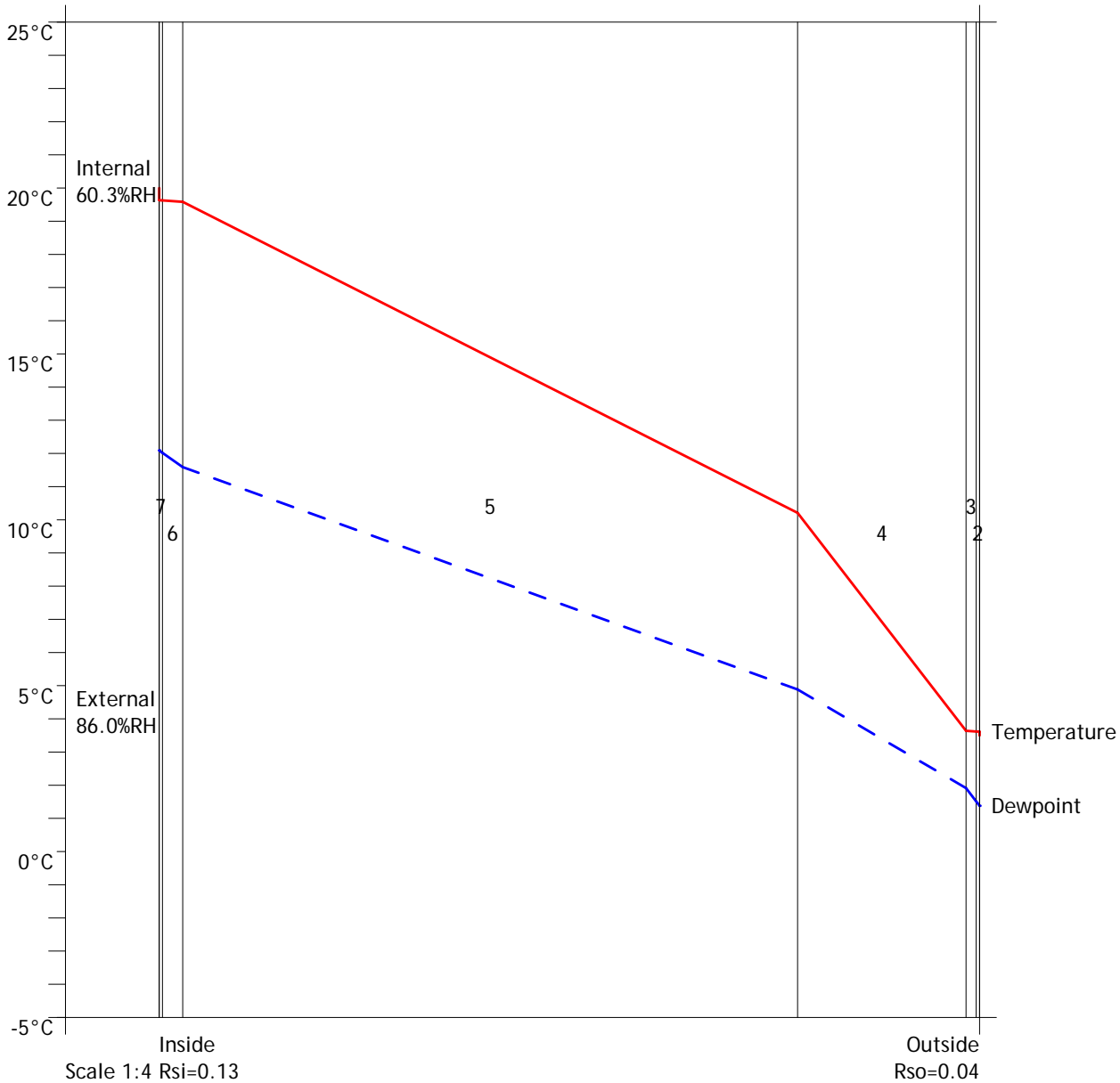
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 100mm	3.6	1.9	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 365 Block	10.2	4.9	0.86	1.24			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.6	1.36	2.28			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.28			No
8 Inside surface resistance	19.6	12.1	1.41	2.28			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



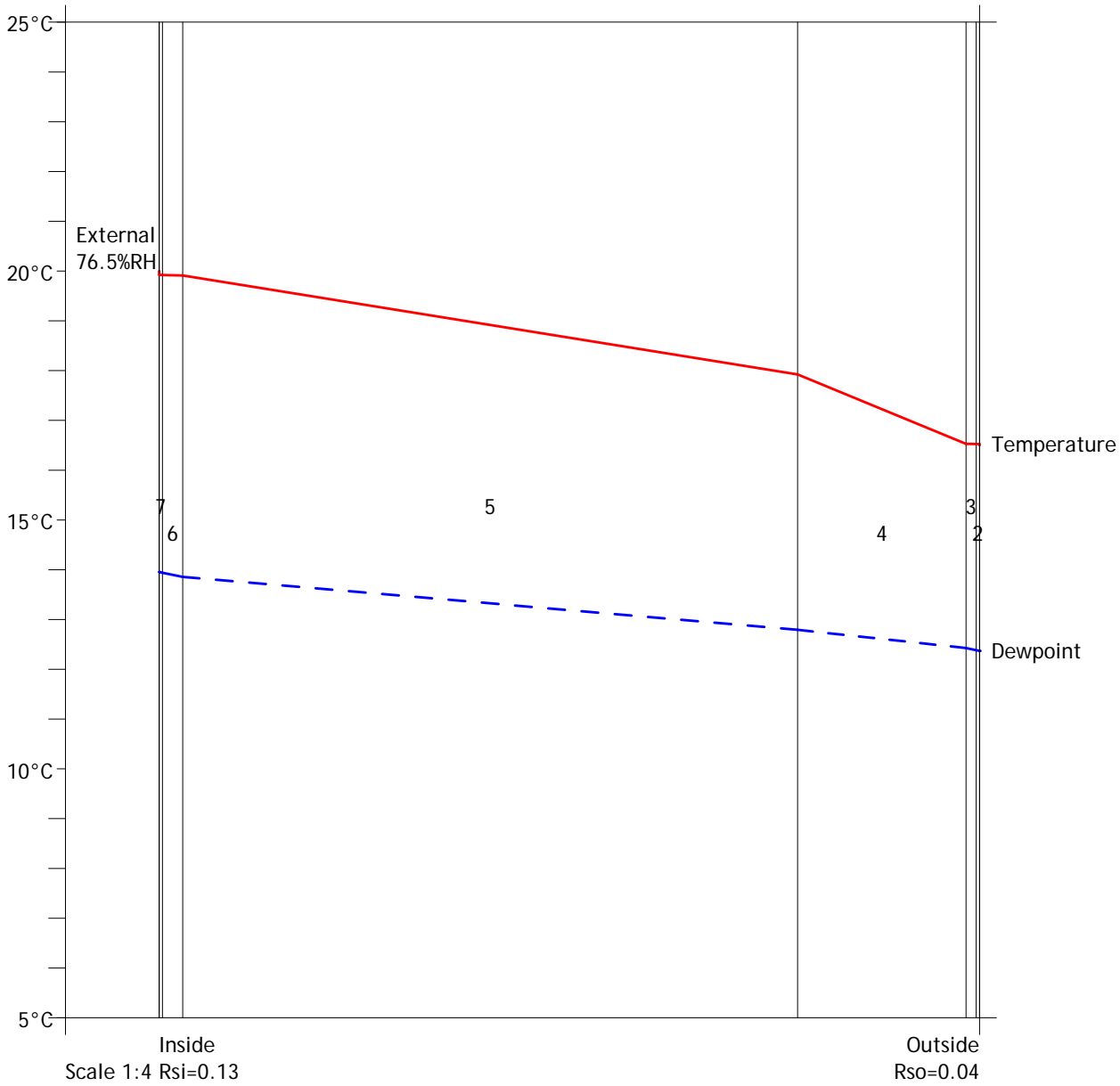
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 100mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 365 Block	17.9	12.8	1.48	2.05			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH



**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 425 60 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 60mm	60.0	0.043	1.395	25.00	1.50
ThermoPlan ZT / ZV 11 425 Block	425.0	0.110	3.864	20.83	8.85
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.18W/m<sup>2</sup>K**

U-value, Combined Method : 0.18 W/m<sup>2</sup>K (upper/lower limit 5.456 / 5.456 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

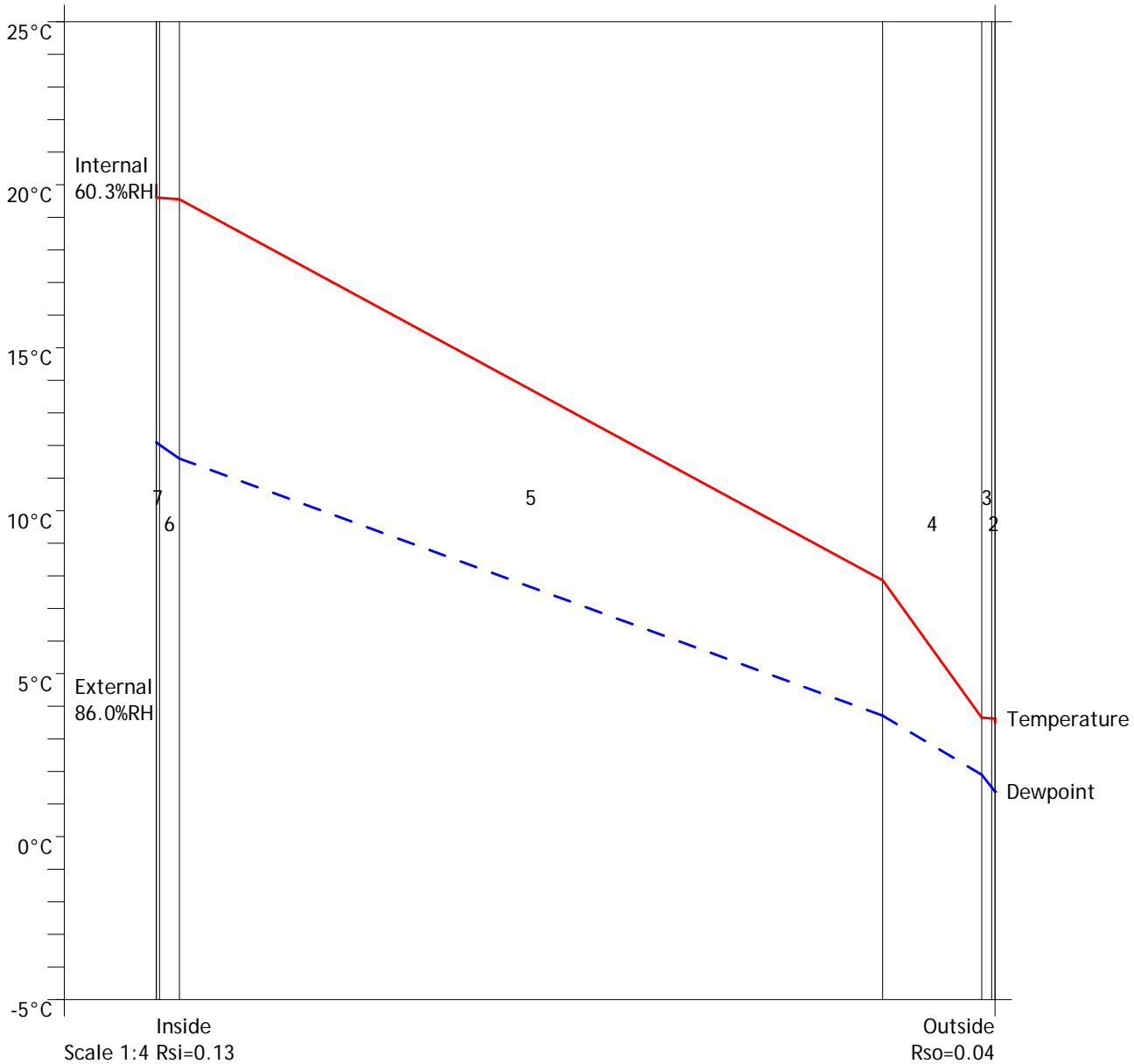
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 60mm	3.7	1.9	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 425 Block	7.9	3.7	0.80	1.06			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.6	1.36	2.27			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.28			No
8 Inside surface resistance	19.6	12.1	1.41	2.28			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



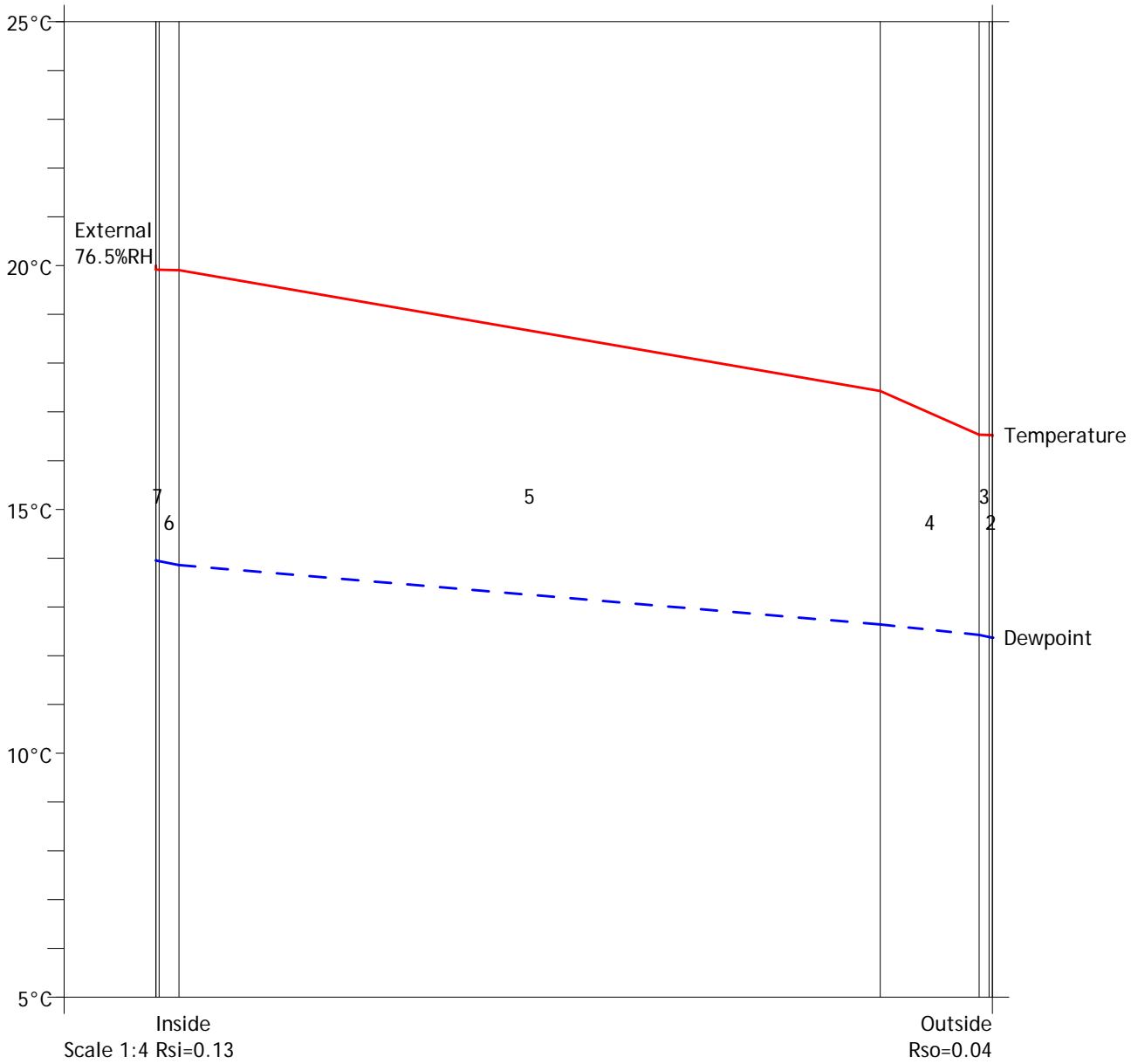
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 60mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 425 Block	17.4	12.6	1.46	1.99			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
8 Inside surface resistance	19.9	14.0	1.59	2.32			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





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Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 425 80 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 80mm	80.0	0.043	1.860	25.00	2.00
ThermoPlan ZT / ZV 11 425 Block	425.0	0.110	3.864	20.83	8.85
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.17W/m<sup>2</sup>K**

U-value, Combined Method : 0.17 W/m<sup>2</sup>K (upper/lower limit 5.921 / 5.921 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

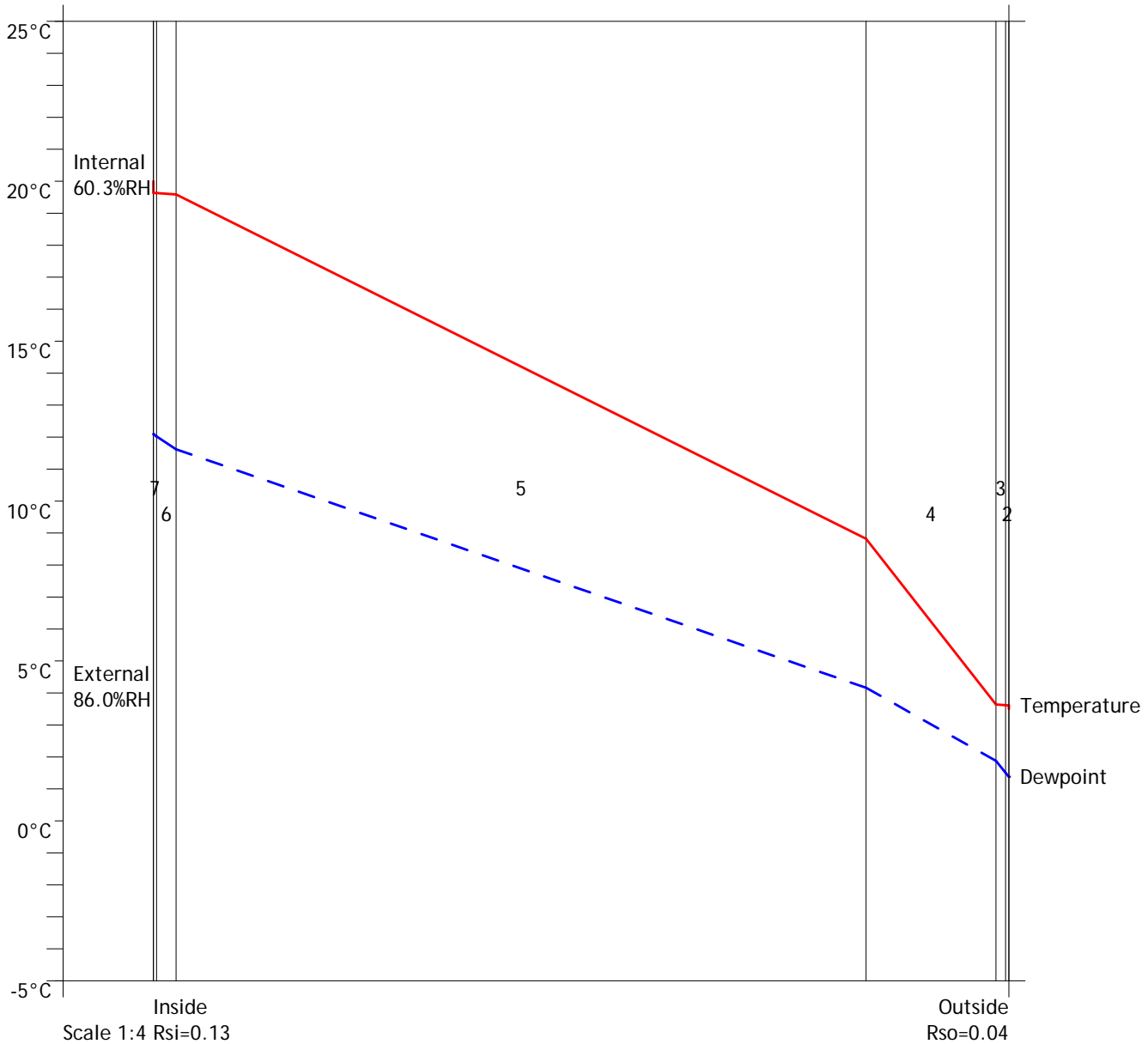
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 80mm	3.6	1.9	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 425 Block	8.8	4.2	0.82	1.13			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.6	1.37	2.28			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.28			No
8 Inside surface resistance	19.6	12.1	1.41	2.29			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



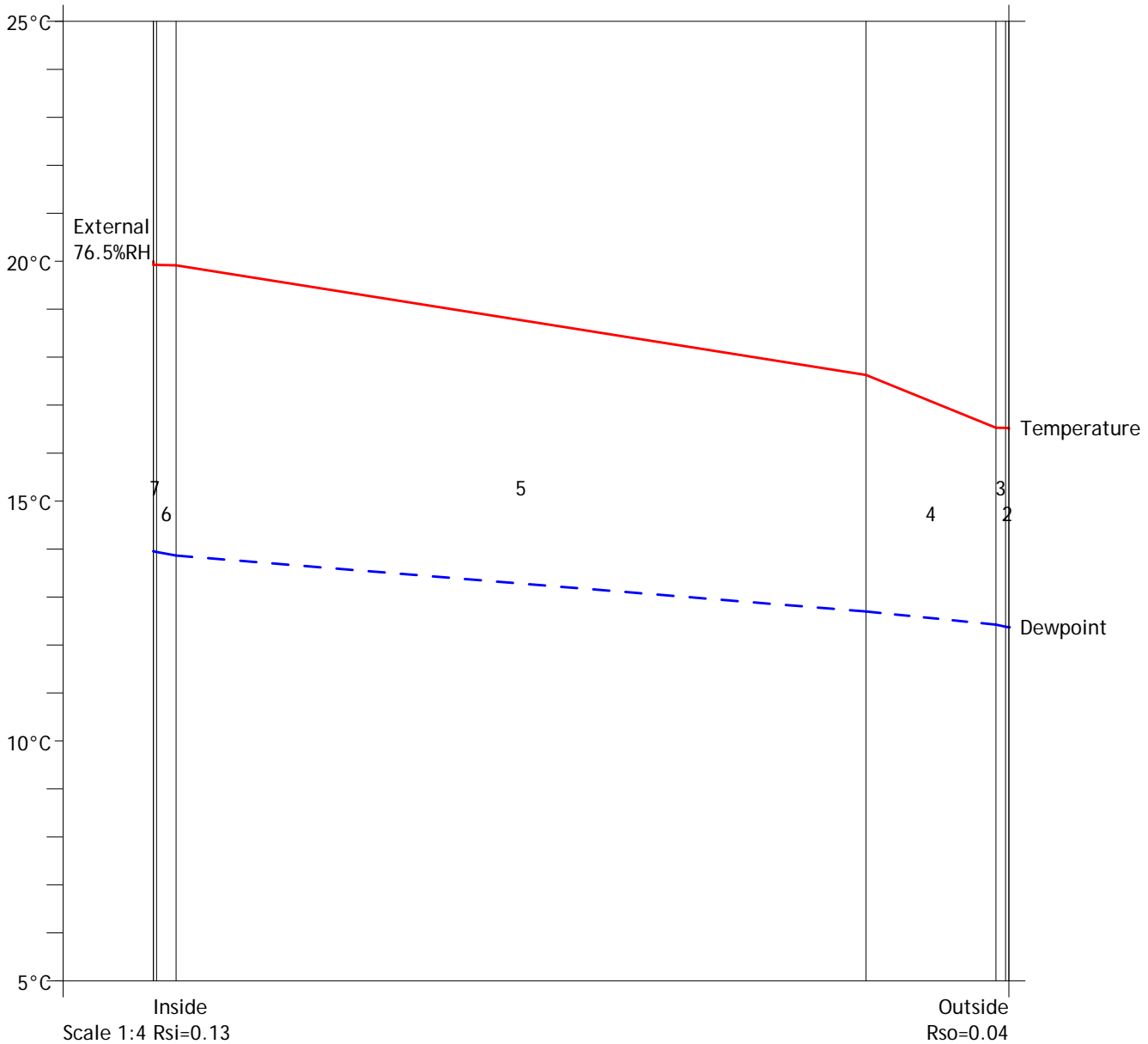
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 80mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 425 Block	17.6	12.7	1.47	2.02			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 425 100 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 100mm	100.0	0.043	2.326	25.00	2.50
ThermoPlan ZT / ZV 11 425 Block	425.0	0.110	3.864	20.83	8.85
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.16W/m<sup>2</sup>K**

U-value, Combined Method : 0.16 W/m<sup>2</sup>K (upper/lower limit 6.387 / 6.387 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

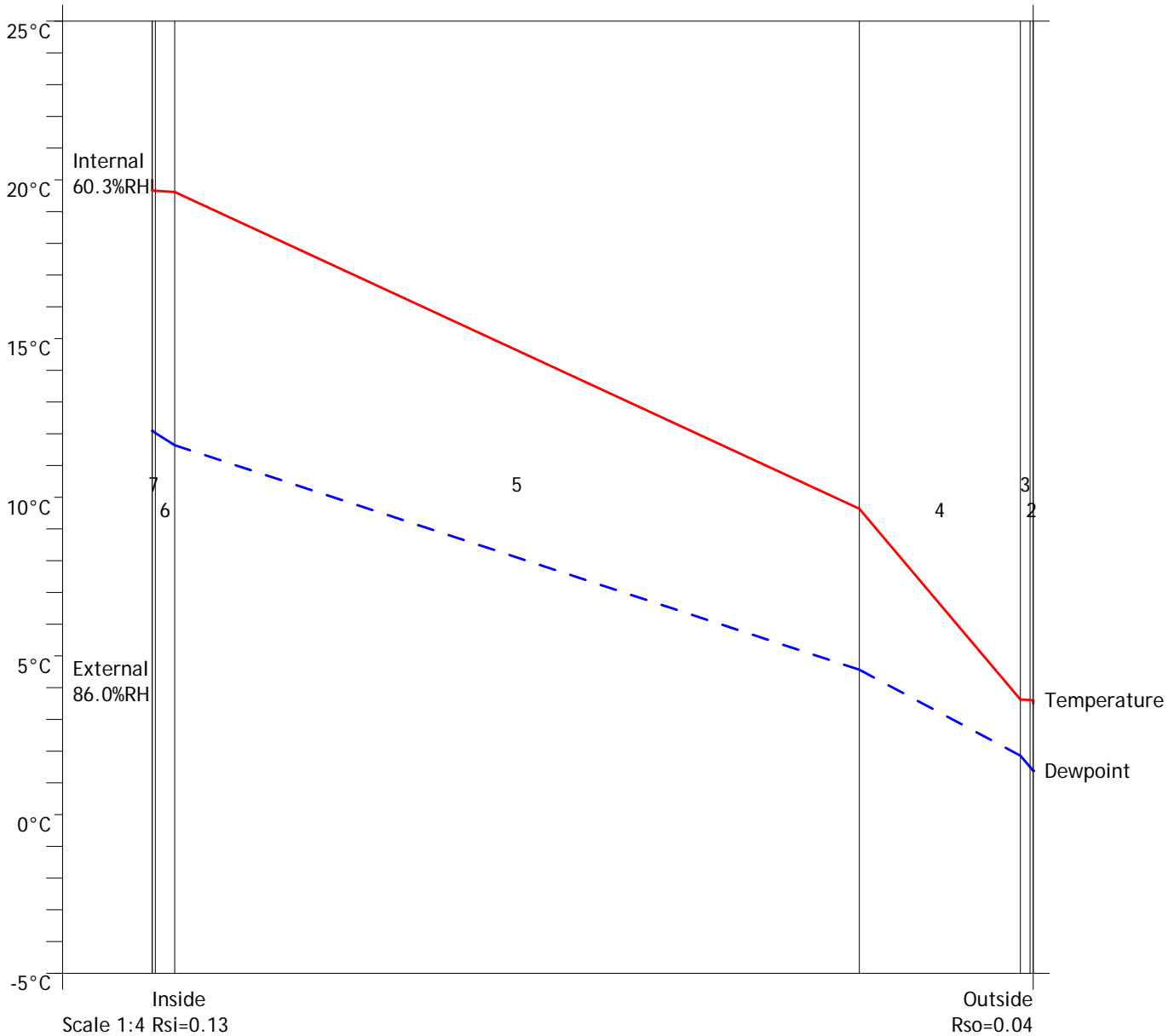
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 100mm	3.6	1.9	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 425 Block	9.6	4.6	0.85	1.20			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.6	1.37	2.28			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.7	12.0	1.40	2.29			No
8 Inside surface resistance	19.7	12.1	1.41	2.29			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



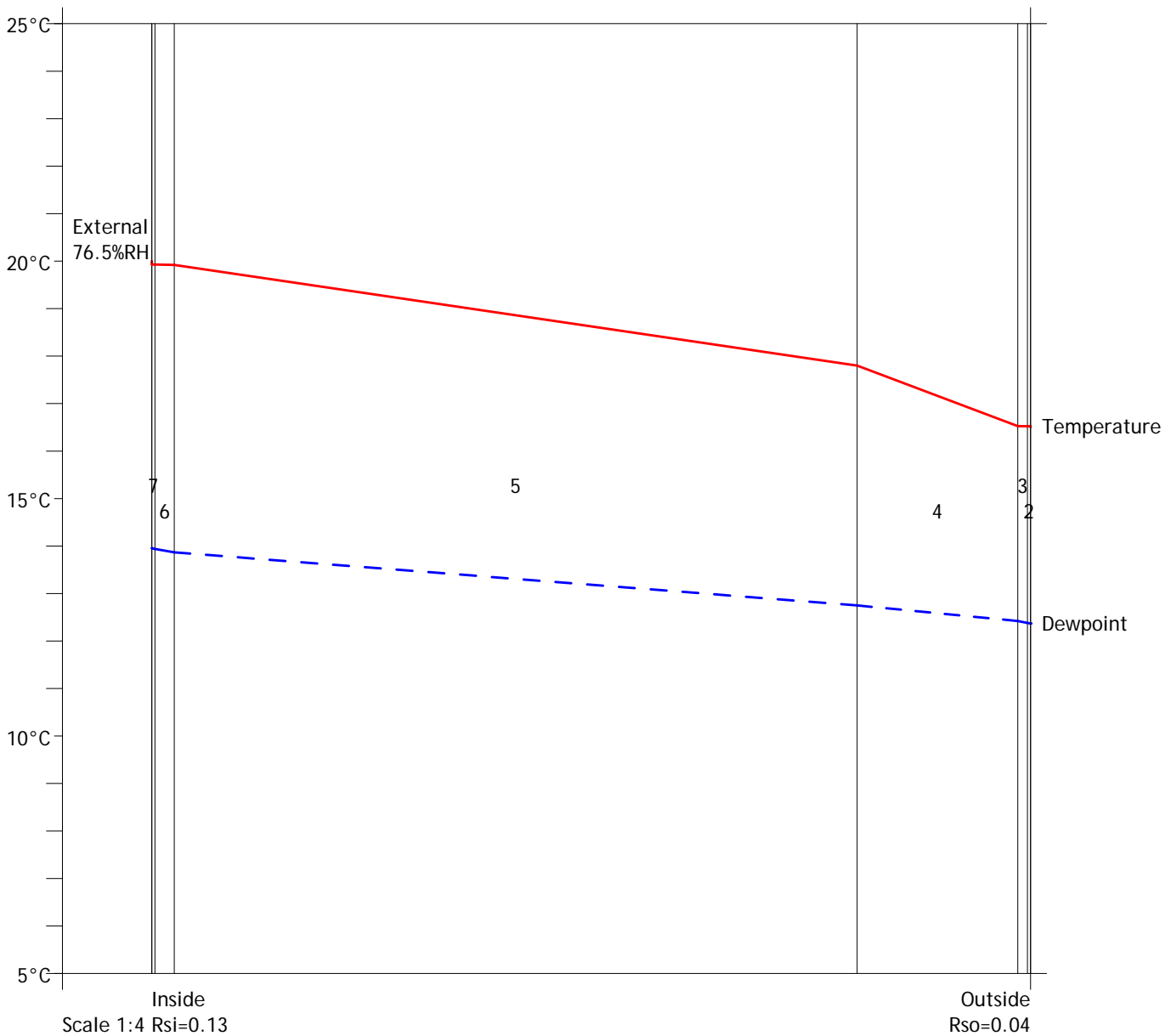
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 100mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 425 Block	17.8	12.8	1.47	2.04			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.33			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 490 60 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumiBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumiBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 60mm	60.0	0.043	1.395	25.00	1.50
ThermoPlan ZT / ZV 11 490 Block	490.0	0.110	4.455	20.83	10.21
BaumiBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumiBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.17W/m<sup>2</sup>K**

U-value, Combined Method : 0.17 W/m<sup>2</sup>K (upper/lower limit 6.047 / 6.047 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

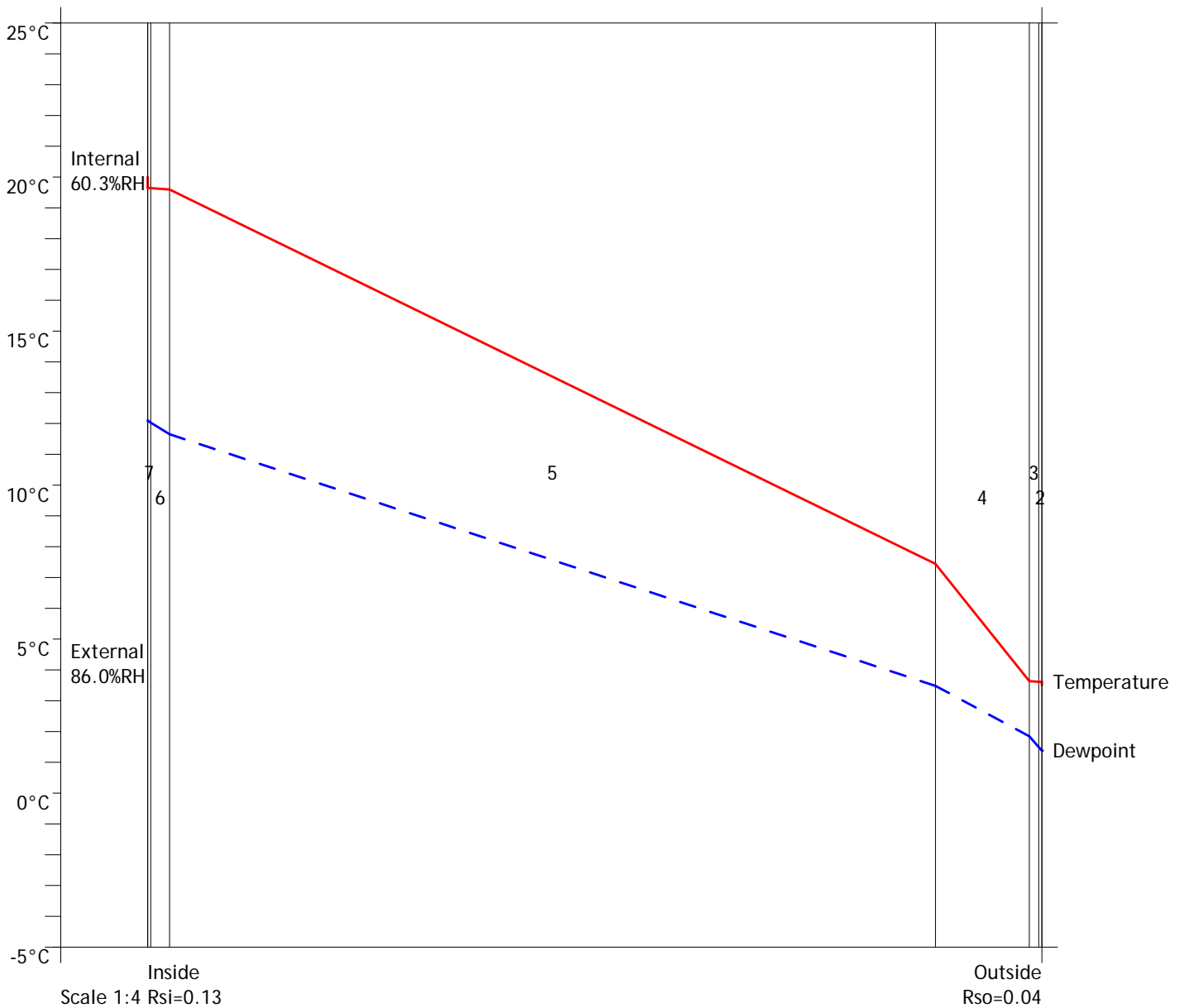
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 60mm	3.6	1.8	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 490 Block	7.4	3.5	0.78	1.03			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.7	1.37	2.28			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.29			No
8 Inside surface resistance	19.6	12.1	1.41	2.29			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



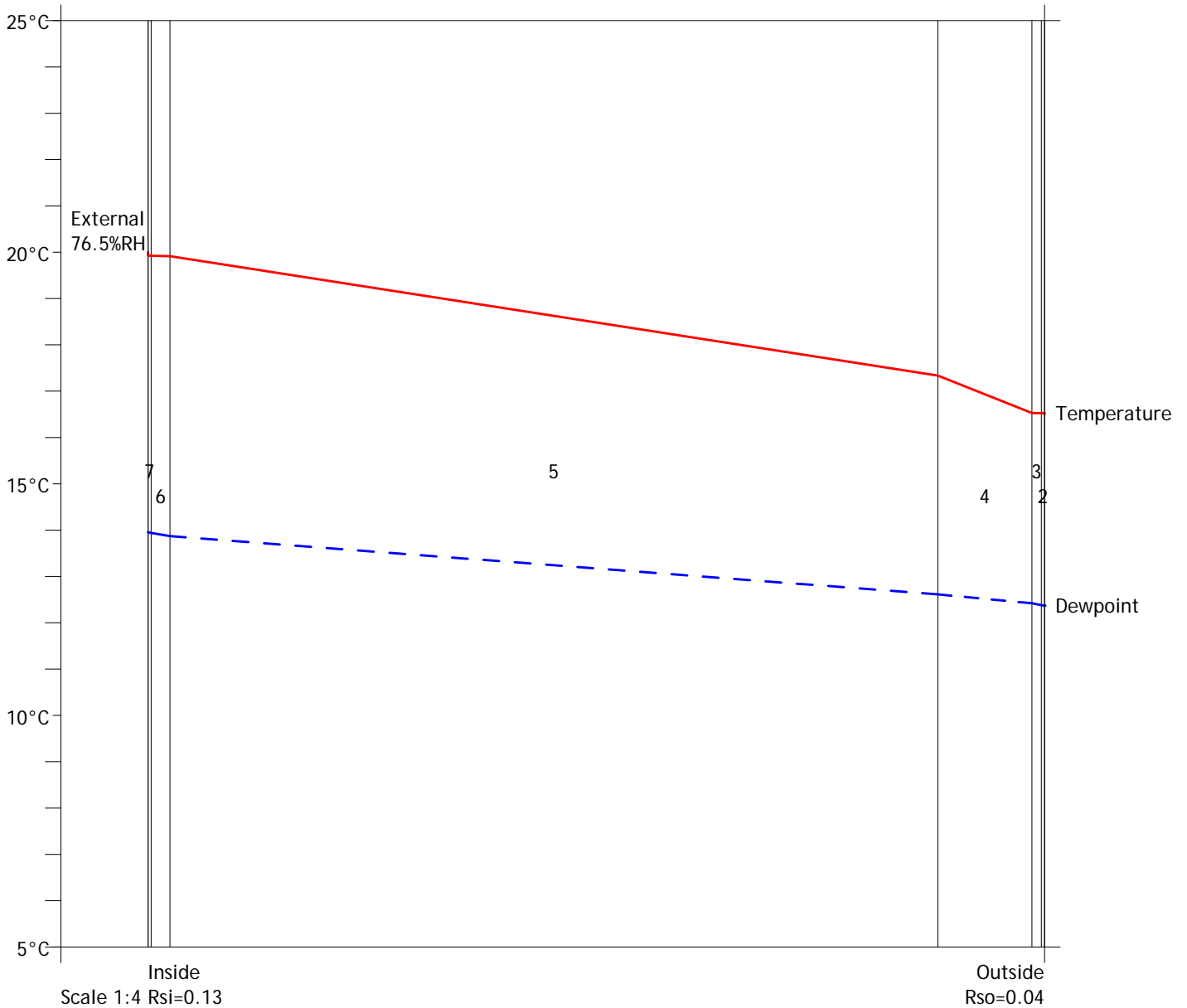
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 60mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 490 Block	17.3	12.6	1.46	1.98			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





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HP18 9UL

T 01844 338338 F 01844 338525

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**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 490 80 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumiBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumiBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 80mm	80.0	0.043	1.860	25.00	2.00
ThermoPlan ZT / ZV 11 490 Block	490.0	0.110	4.455	20.83	10.21
BaumiBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumiBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.15W/m<sup>2</sup>K**

U-value, Combined Method : 0.15 W/m<sup>2</sup>K (upper/lower limit 6.512 / 6.512 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

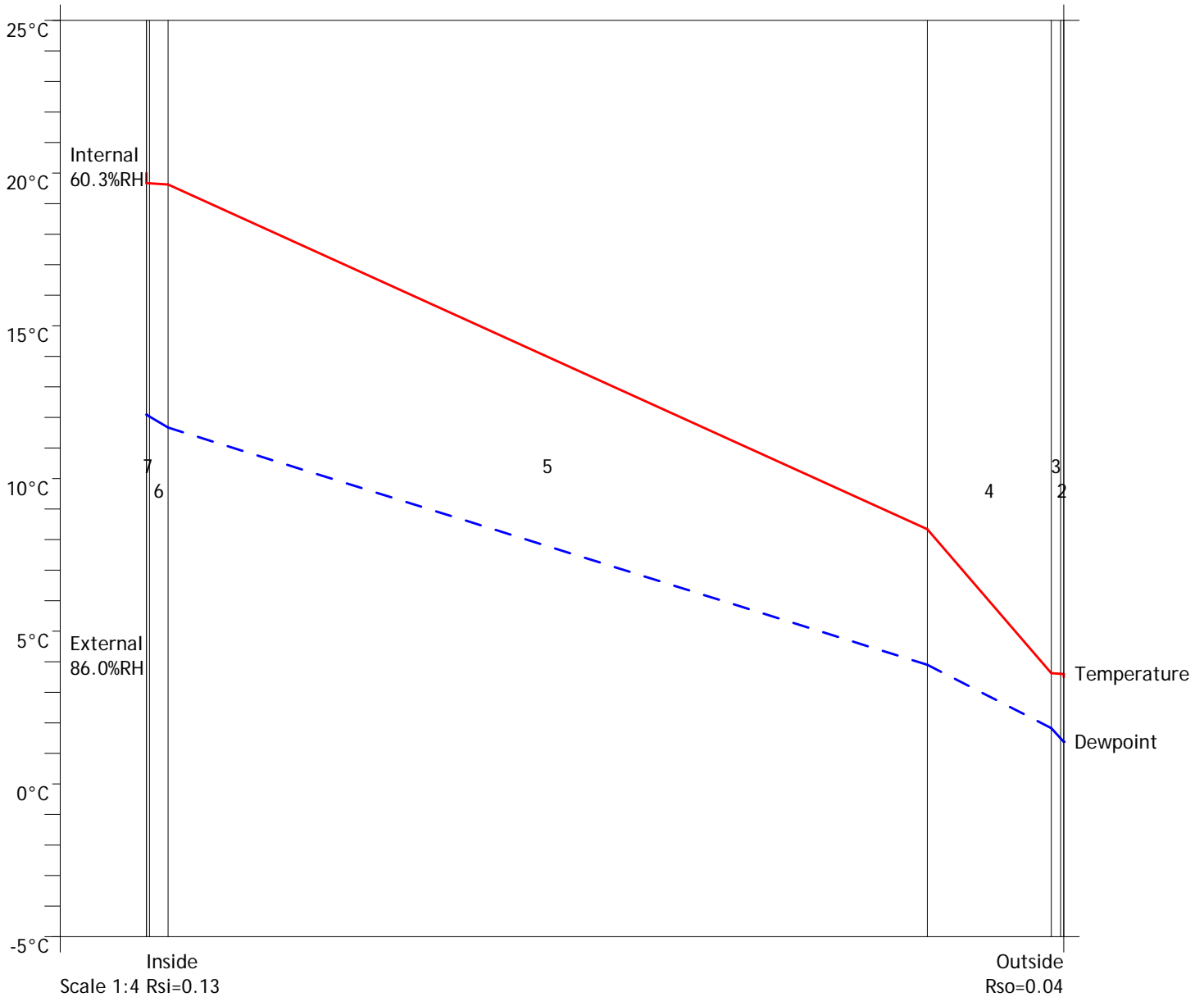
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 80mm	3.6	1.8	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 490 Block	8.3	3.9	0.81	1.10			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.6	11.7	1.37	2.28			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.7	12.0	1.40	2.29			No
8 Inside surface resistance	19.7	12.1	1.41	2.29			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



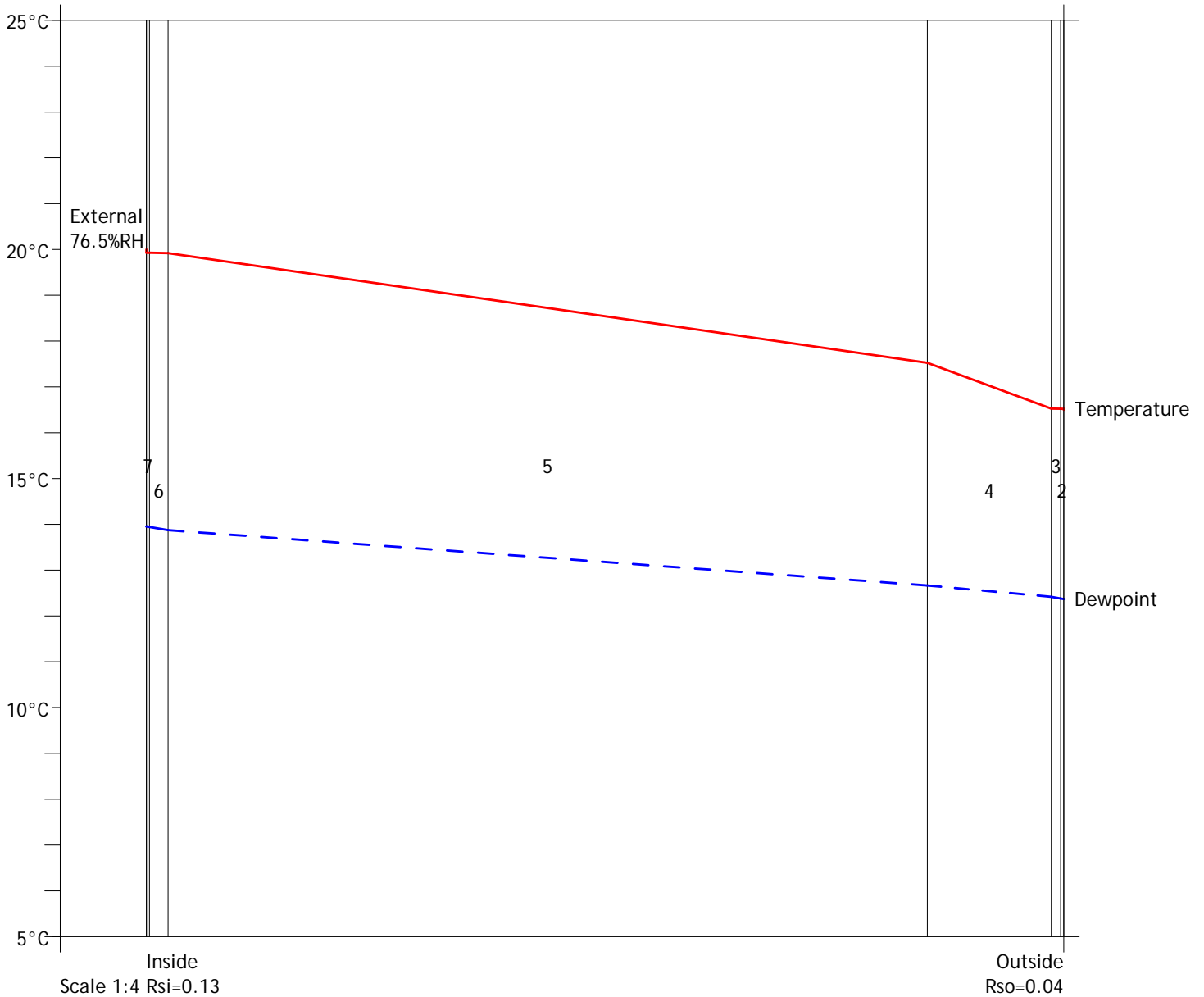
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 80mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 490 Block	17.5	12.7	1.46	2.00			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.33			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH





Natural Building Technologies

Natural Building Technologies Ltd

The Hangar, Worminghall Road

Oakley, Bucks

HP18 9UL

T 01844 338338 F 01844 338525

info@natural-building.co.uk

**Project Information**

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

**Construction type**

Element : Wall - ZT/ ZV 11 - 490 100 DIFF

Internal surface emissivity : High External surface emissivity : High

**Construction**

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Vapour Resistivity (MNs/gm)	Vapour Resistance (MNs/g)
Outside surface resistance	-	-	0.040	-	-
BaumitBayosan SEP01/02/03/04 Decor Finish	2.0	0.830	0.002	50.00	0.10
BaumitBayosan MC55W Bonding Mortar	6.0	0.830	0.007	50.00	0.30
Pavatex Diffutherm 100mm	100.0	0.043	2.326	25.00	2.50
ThermoPlan ZT / ZV 11 490 Block	490.0	0.110	4.455	20.83	10.21
BaumitBayosan K38 (RK38) Pure Lime Plaster	12.0	0.830	0.014	50.00	0.60
BaumitBayosan K30 (RK30) Pure Lime Skim Coat	2.0	0.830	0.002	50.00	0.10
Inside surface resistance	-	-	0.130	-	-

**U-value - 0.14W/m<sup>2</sup>K**

U-value, Combined Method : 0.14 W/m<sup>2</sup>K (upper/lower limit 6.978 / 6.978 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

Structure element : Wall  
Condensation calculations performed in accordance with BS5250:2002

Condensation is occurring at the following layers interfaces:-

Month	Int (C°)	Int (%RH)	Ext (C°)	Ext (%RH)
Jan	20.00	60.30	3.50	86.00
Feb	20.00	59.20	3.80	82.50
Mar	20.00	58.60	5.70	80.00
Apr	20.00	58.20	8.00	77.00
May	20.00	60.70	11.30	77.00
Jun	20.00	64.00	14.40	76.00
Jul	20.00	68.10	16.50	76.50
Aug	20.00	68.90	16.10	78.50
Sep	20.00	66.80	13.80	81.50
Oct	20.00	64.00	10.70	84.00
Nov	20.00	61.10	6.40	85.50
Dec	20.00	60.70	4.50	86.50

Gc = Monthly moisture accumulation per area at an interface  
Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m<sup>2</sup>

Annual moisture accumulation = 0.00000 Kg/m<sup>2</sup>

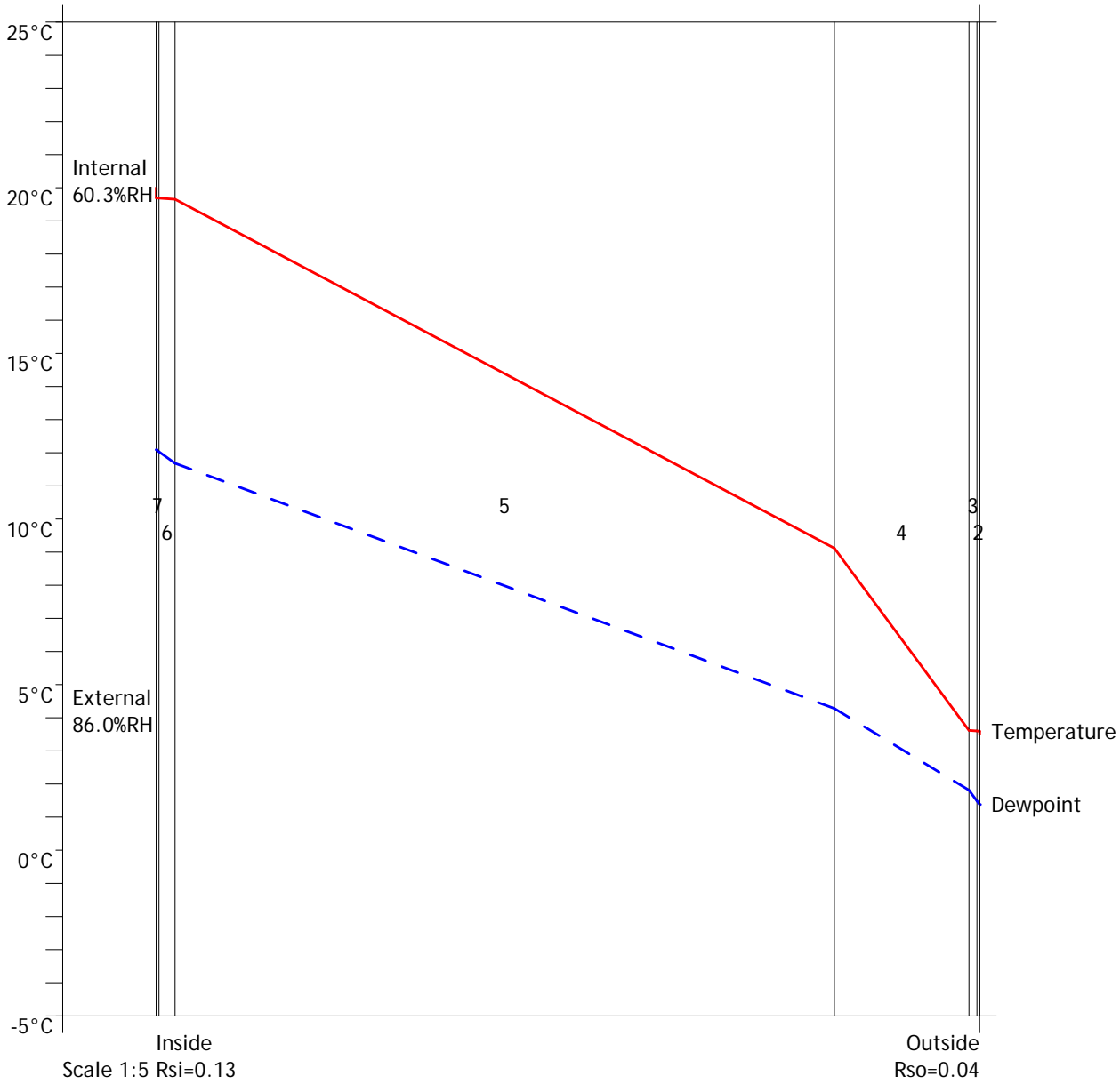
**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MC55W Bonding Mortar	3.6	1.5	0.68	0.79			No
4 Pavatex Diffutherm 100mm	3.6	1.8	0.70	0.79			No
5 ThermoPlan ZT / ZV 11 490 Block	9.1	4.3	0.83	1.16			No
6 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.7	11.7	1.37	2.29			No
7 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.7	12.0	1.40	2.29			No
8 Inside surface resistance	19.7	12.1	1.41	2.29			No

Worst case internal / external conditions for graph : 20.0°C @ 60.3%RH / 3.5°C @ 86.0%RH



**Condensation Risk Analysis (no account taken of thermal bridges)**

**3 - Dwellings with low occupancy**

Jan (worst)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20.0C 60.3%	20.0C 59.2%	20.0C 58.6%	20.0C 58.2%	20.0C 60.7%	20.0C 64.0%	20.0C 68.1%	20.0C 68.9%	20.0C 66.8%	20.0C 64.0%	20.0C 61.1%	20.0C 60.7%
3.5C 86.0%	3.8C 82.5%	5.7C 80.0%	8.0C 77.0%	11.3C 77.0%	14.4C 76.0%	16.5C 76.5%	16.1C 78.5%	13.8C 81.5%	10.7C 84.0%	6.4C 85.5%	4.5C 86.5%

	Interface Temp. °C	Dewpoint Temp. °C	Vapour Pressure (kPa)	Saturated V.P. (kPa)	Worst Cond. (g/m <sup>2</sup> )	Peak Buildup (g/m <sup>2</sup> )	Condensation
1 Outside surface resistance							
2 BaimitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaimitBayosan MC55W Bonding Mortar	16.5	12.4	1.44	1.88			No
4 Pavatex Diffutherm 100mm	16.5	12.4	1.44	1.88			No
5 ThermoPlan ZT / ZV 11 490 Block	17.7	12.7	1.47	2.02			No
6 BaimitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.33			No
7 BaimitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.33			No
8 Inside surface resistance	19.9	14.0	1.59	2.33			No

Worst case internal / external conditions for graph : 20.0°C @ 68.1%RH / 16.5°C @ 76.5%RH

