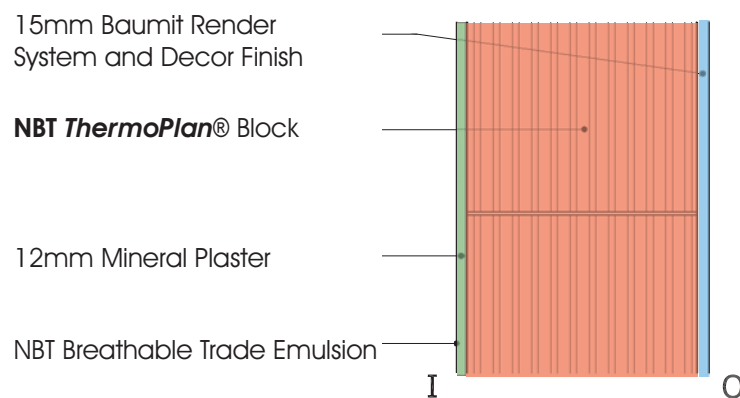


NBT ThermoPlan® 09 & 11 System

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"

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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 09 - 300MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 FL68 Lightweight Render for S9	15.0	0.560	0.027	50.00	0.75
ThermoPlan ZT / ZV 09 300 Block	300.0	0.090	3.333	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 - 0.28W/m²K

U-value, Combined Method : 0.28 W/m²K (upper/lower limit 3.549 / 3.549 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

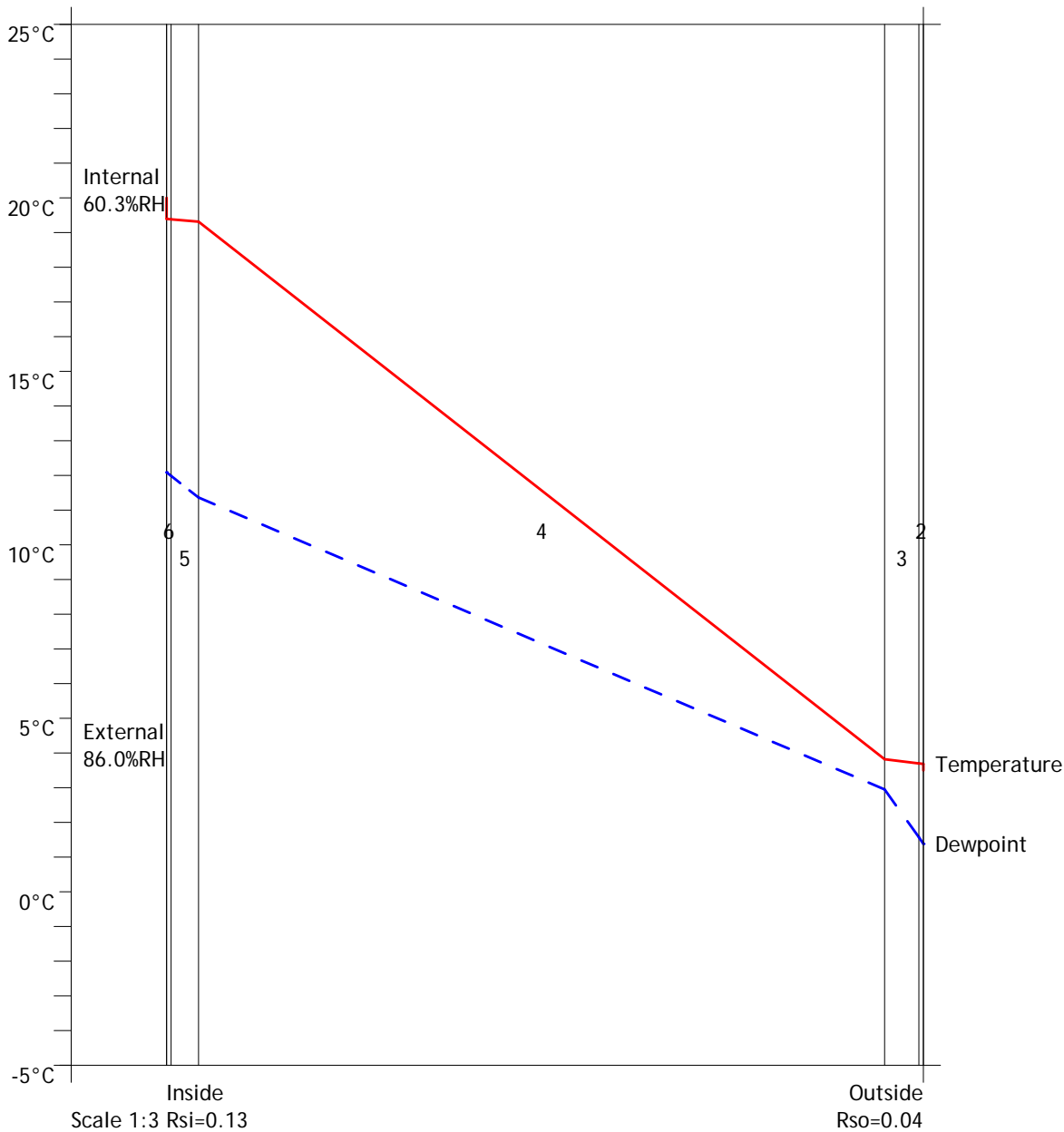
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.80			No
3 BaunitBayosan FL68 Lightweight Render for S9	3.7	1.6	0.68	0.80			No
4 ThermoPlan ZT / ZV 09 300 Block	3.8	3.0	0.75	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.3	11.4	1.34	2.24			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.4	12.0	1.40	2.25			No
7 Inside surface resistance	19.4	12.1	1.41	2.25			No

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



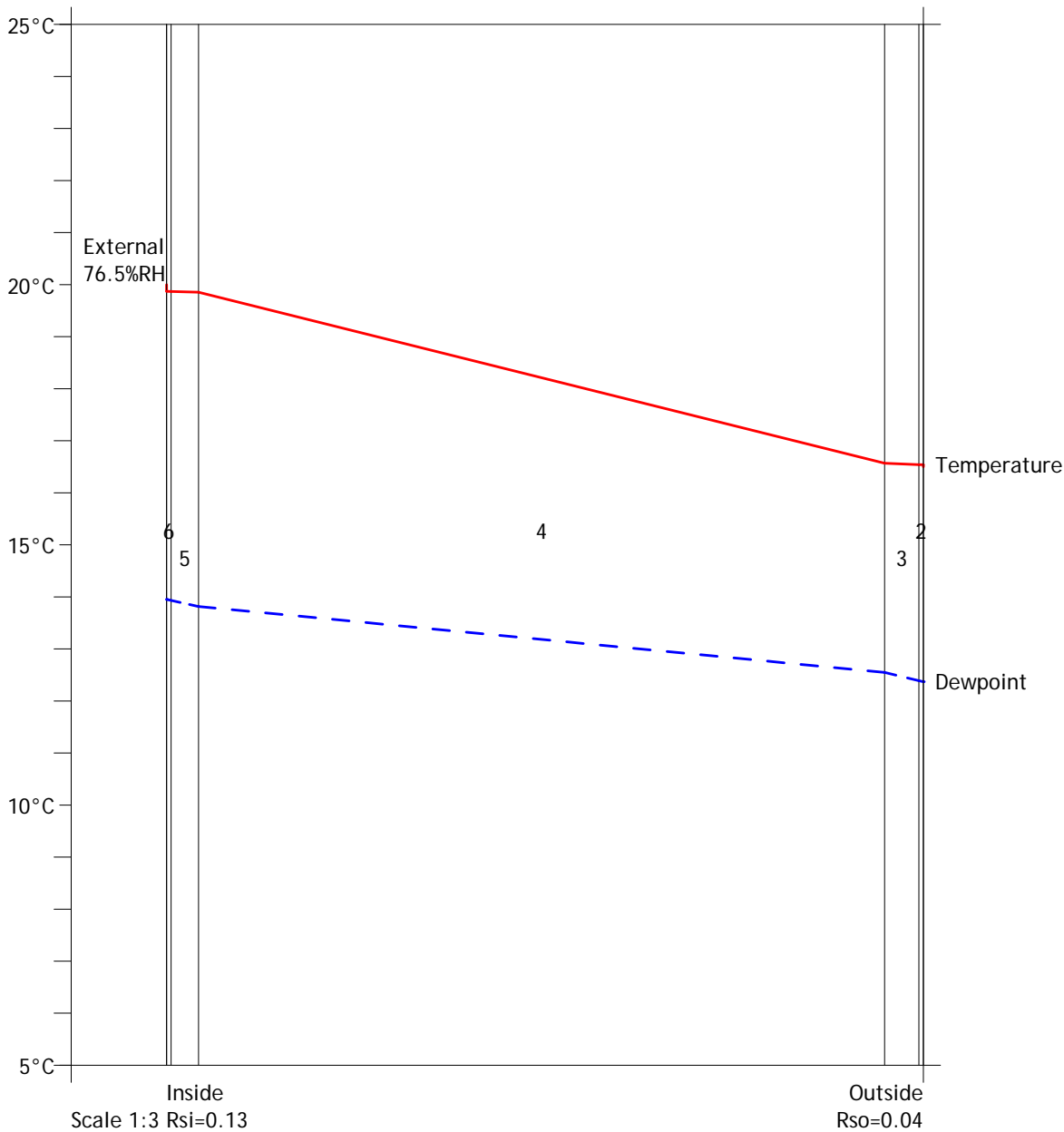
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan FL68 Lightweight Render for S9	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 09 300 Block	16.6	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 09 - 365MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 FL68 Lightweight Render for S9	15.0	0.560	0.027	50.00	0.75
ThermoPlan ZT / ZV 09 365 Block	365.0	0.090	4.056	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 - 0.23W/m²K

U-value, Combined Method : 0.23 W/m²K (upper/lower limit 4.272 / 4.272 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

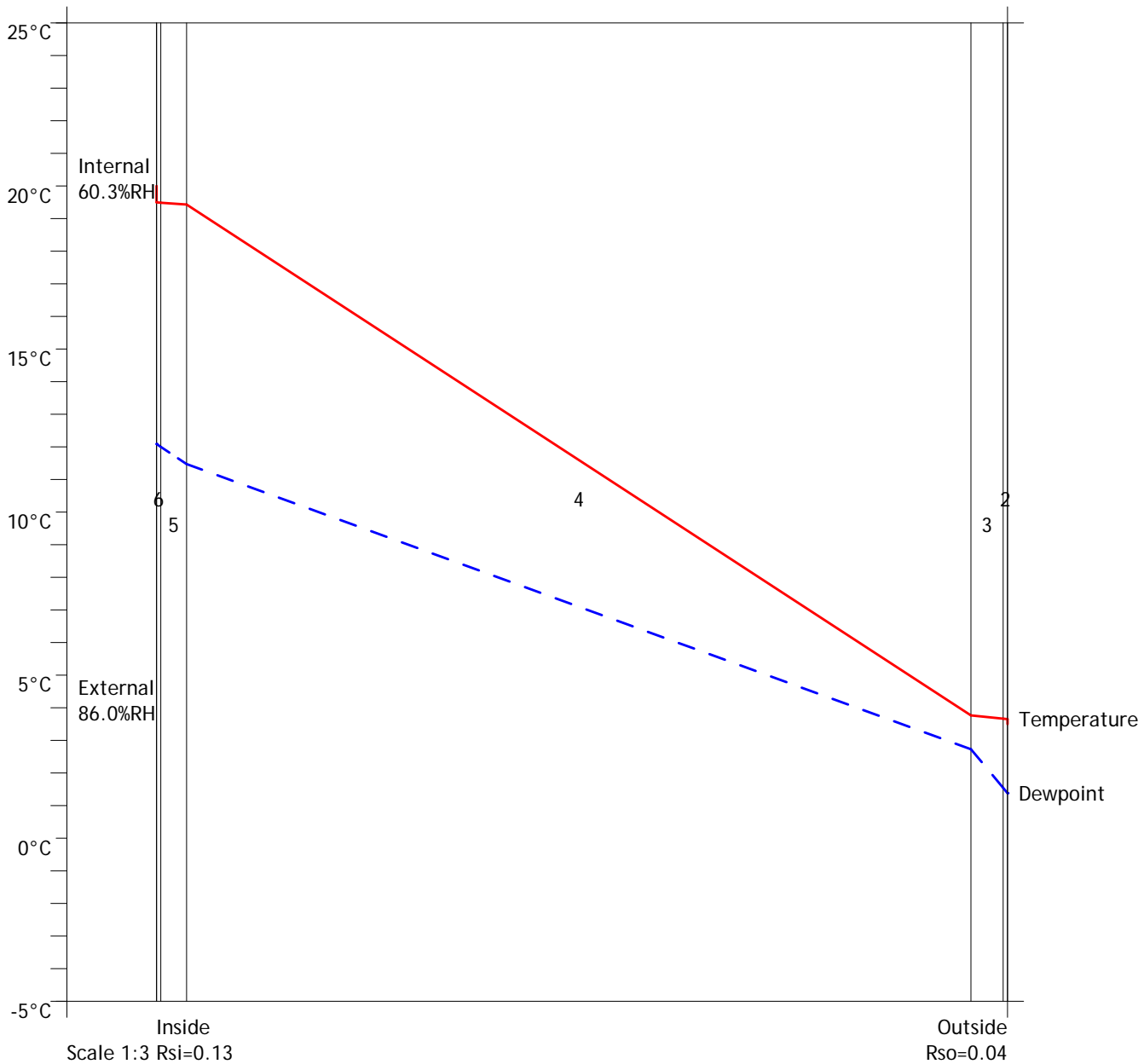
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.79			No
3 BaunitBayosan FL68 Lightweight Render for S9	3.7	1.5	0.68	0.79			No
4 ThermoPlan ZT / ZV 09 365 Block	3.8	2.7	0.74	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.4	11.5	1.35	2.26			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.26			No
7 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



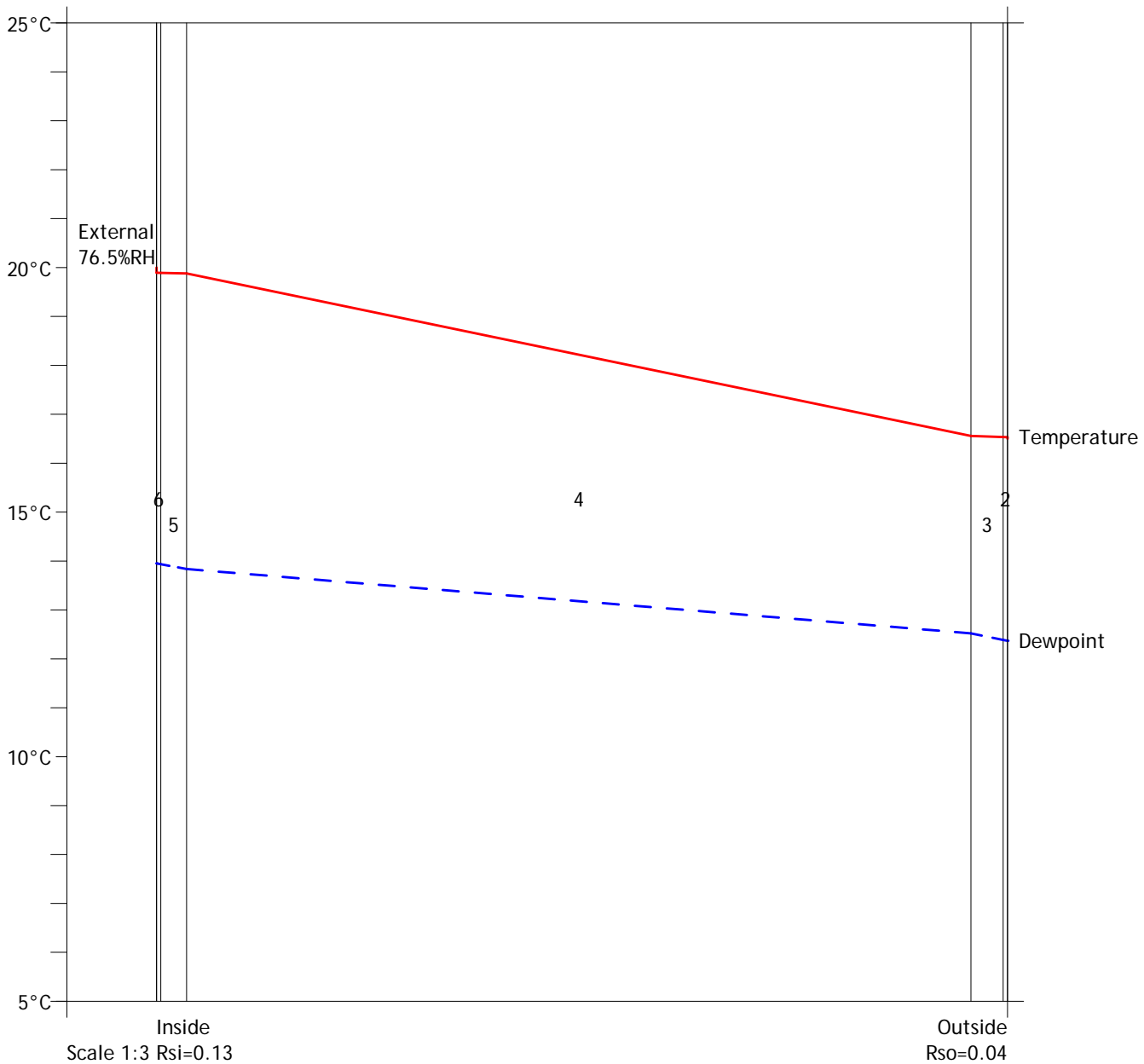
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan FL68 Lightweight Render for S9	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 09 365 Block	16.6	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 09 - 425MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 FL68 Lightweight Render for S9	15.0	0.560	0.027	50.00	0.75
ThermoPlan ZT / ZV 09 425 Block	425.0	0.090	4.722	20.83	8.85
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/m²K

U-value, Combined Method : 0.20 W/m²K (upper/lower limit 4.938 / 4.938 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

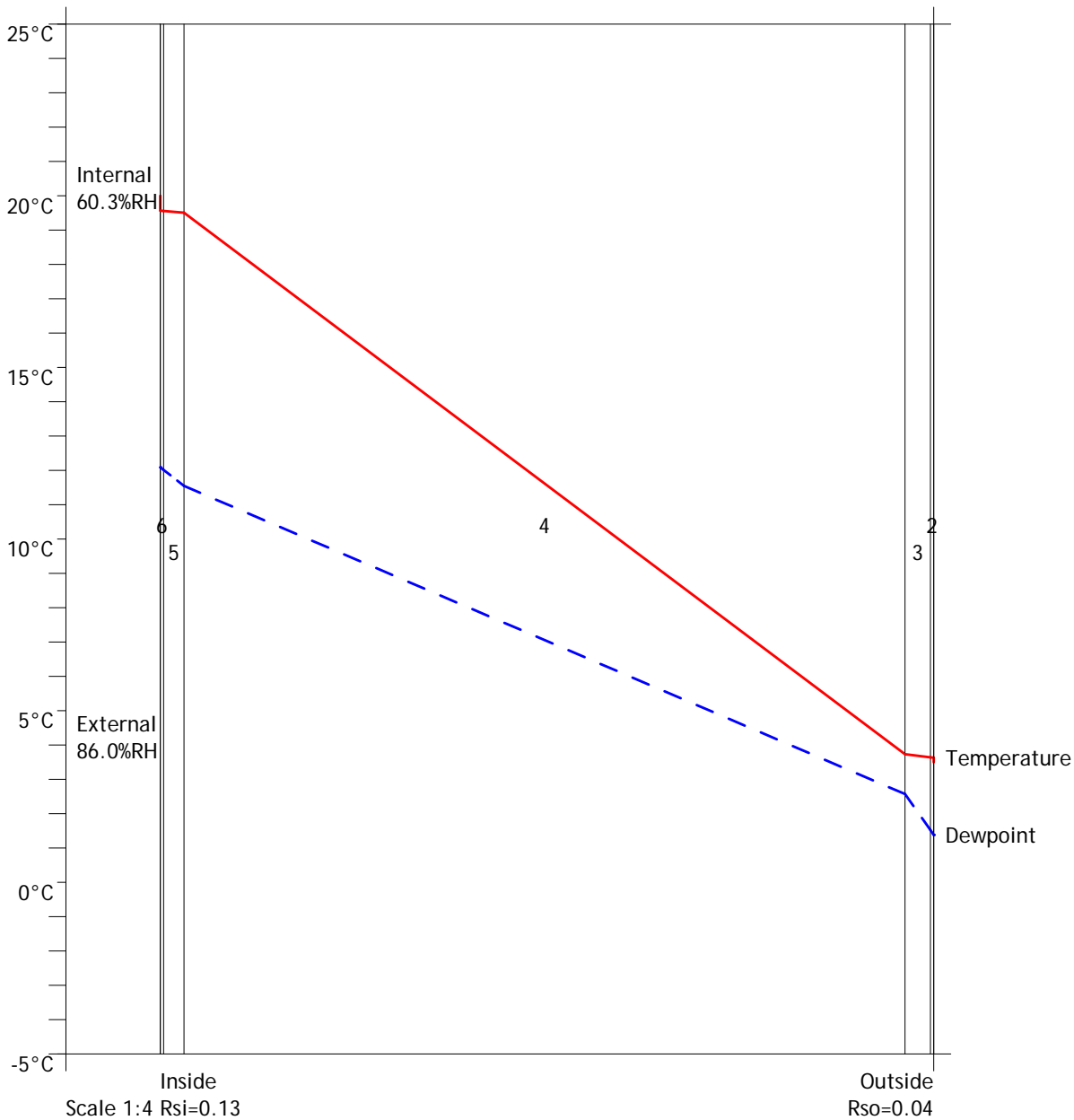
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan FL68 Lightweight Render for S9	3.6	1.5	0.68	0.79			No
4 ThermoPlan ZT / ZV 09 425 Block	3.7	2.6	0.73	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.5	1.36	2.27			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.6	12.0	1.40	2.27			No
7 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



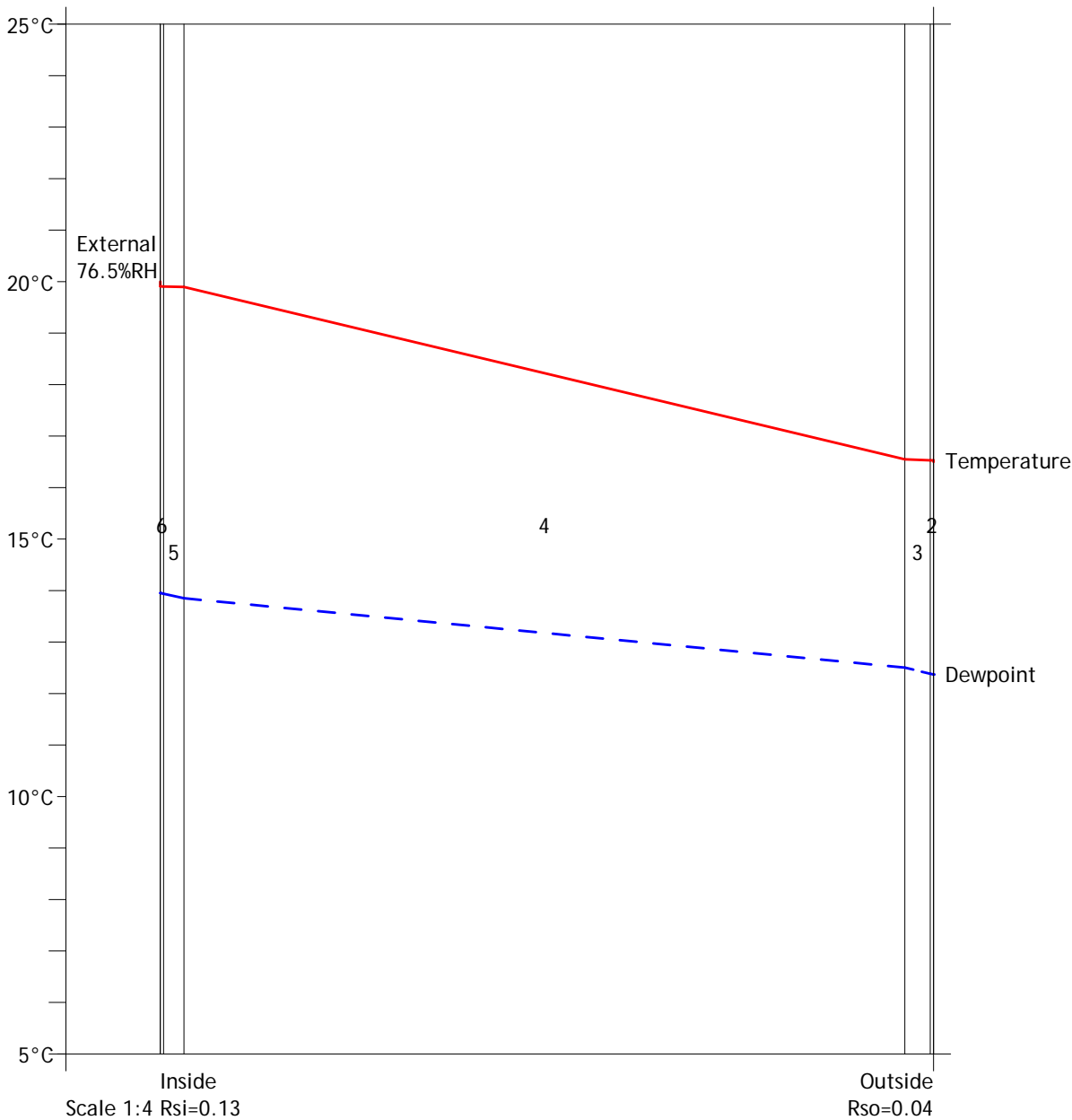
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan FL68 Lightweight Render for S9	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 09 425 Block	16.5	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 11 - 240MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 MP69 / W Lightweight Render	15.0	0.560	0.027	50.00	0.75
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 - 0.42W/m²K

U-value, Combined Method : 0.42 W/m²K (upper/lower limit 2.398 / 2.398 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

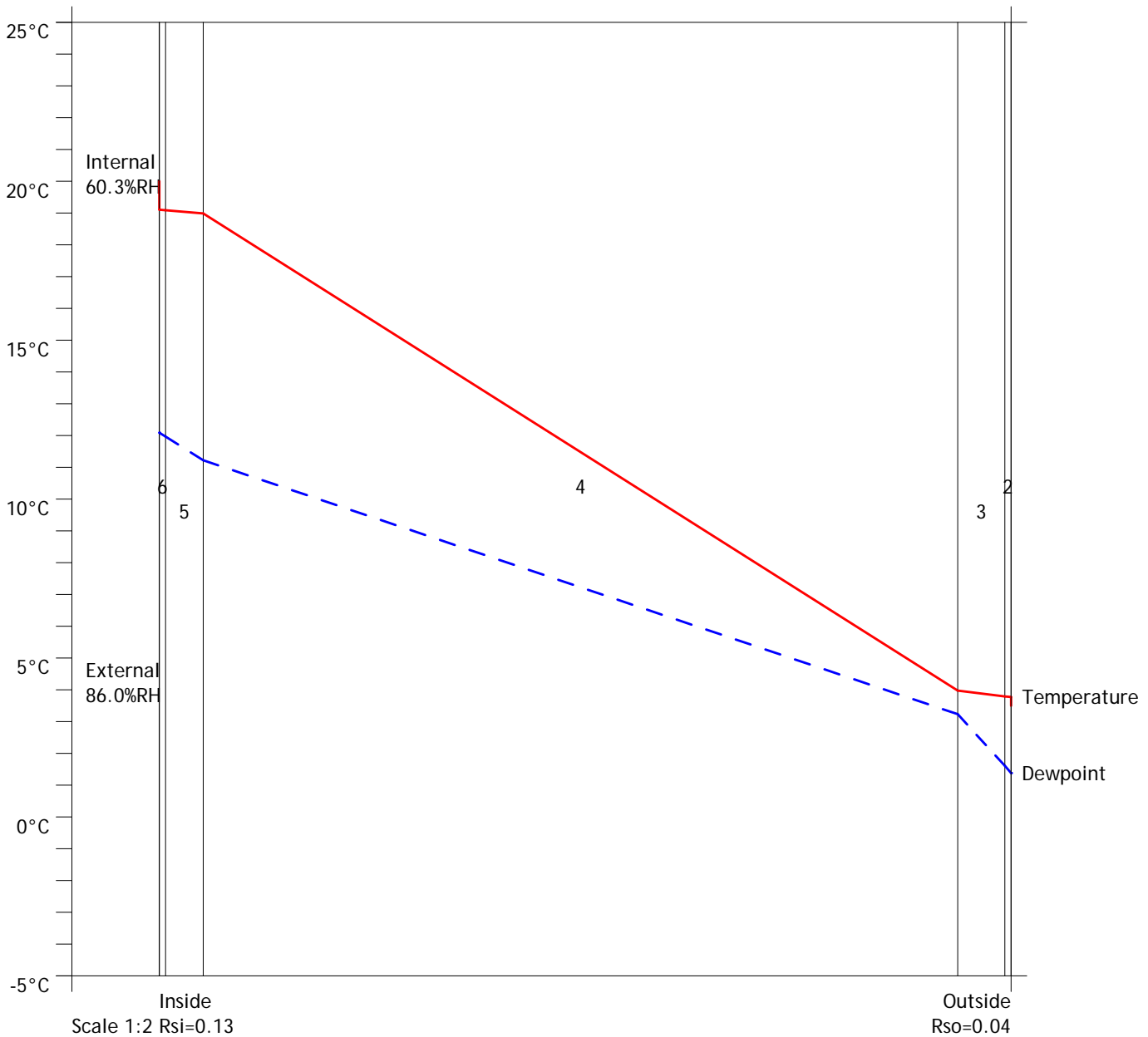
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.8	1.4	0.67	0.80			No
3 BaunitBayosan MP69 / W Lightweight Render	3.8	1.6	0.69	0.80			No
4 ThermoPlan ZT / ZV 11 240 Block	4.0	3.2	0.77	0.81			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.0	11.2	1.33	2.19			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.1	12.0	1.40	2.21			No
7 Inside surface resistance	19.1	12.1	1.41	2.21			No

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



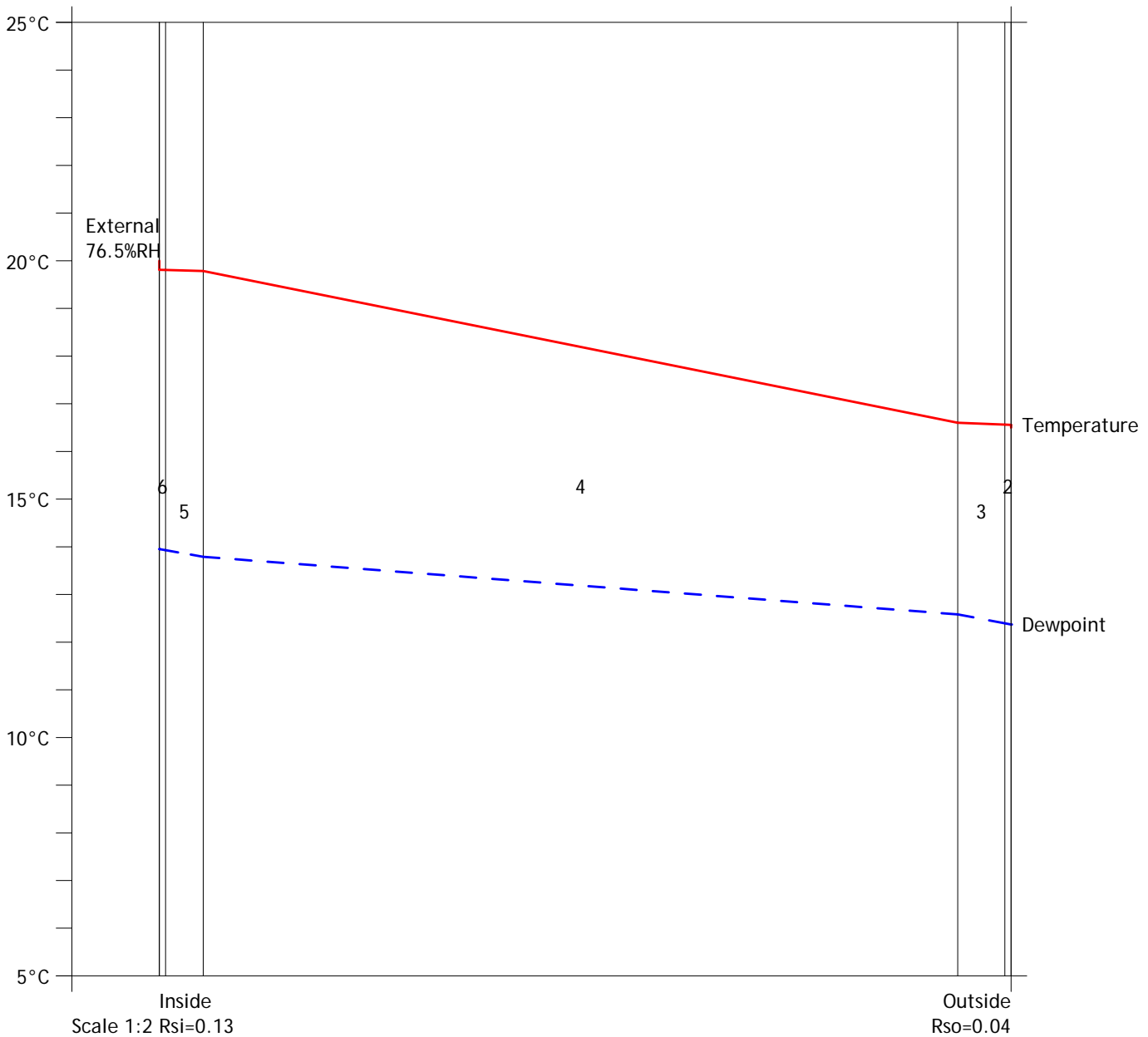
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.6	12.4	1.44	1.88			No
3 BaunitBayosan MP69 / W Lightweight Render	16.6	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 11 240 Block	16.6	12.6	1.46	1.89			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.8	13.8	1.57	2.31			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.8	13.9	1.59	2.31			No
7 Inside surface resistance	19.8	14.0	1.59	2.31			No

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





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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 11 - 300MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 MP69 / W Lightweight Render	15.0	0.560	0.027	50.00	0.75
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 - 0.34W/m²K

U-value, Combined Method : 0.34 W/m²K (upper/lower limit 2.943 / 2.943 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

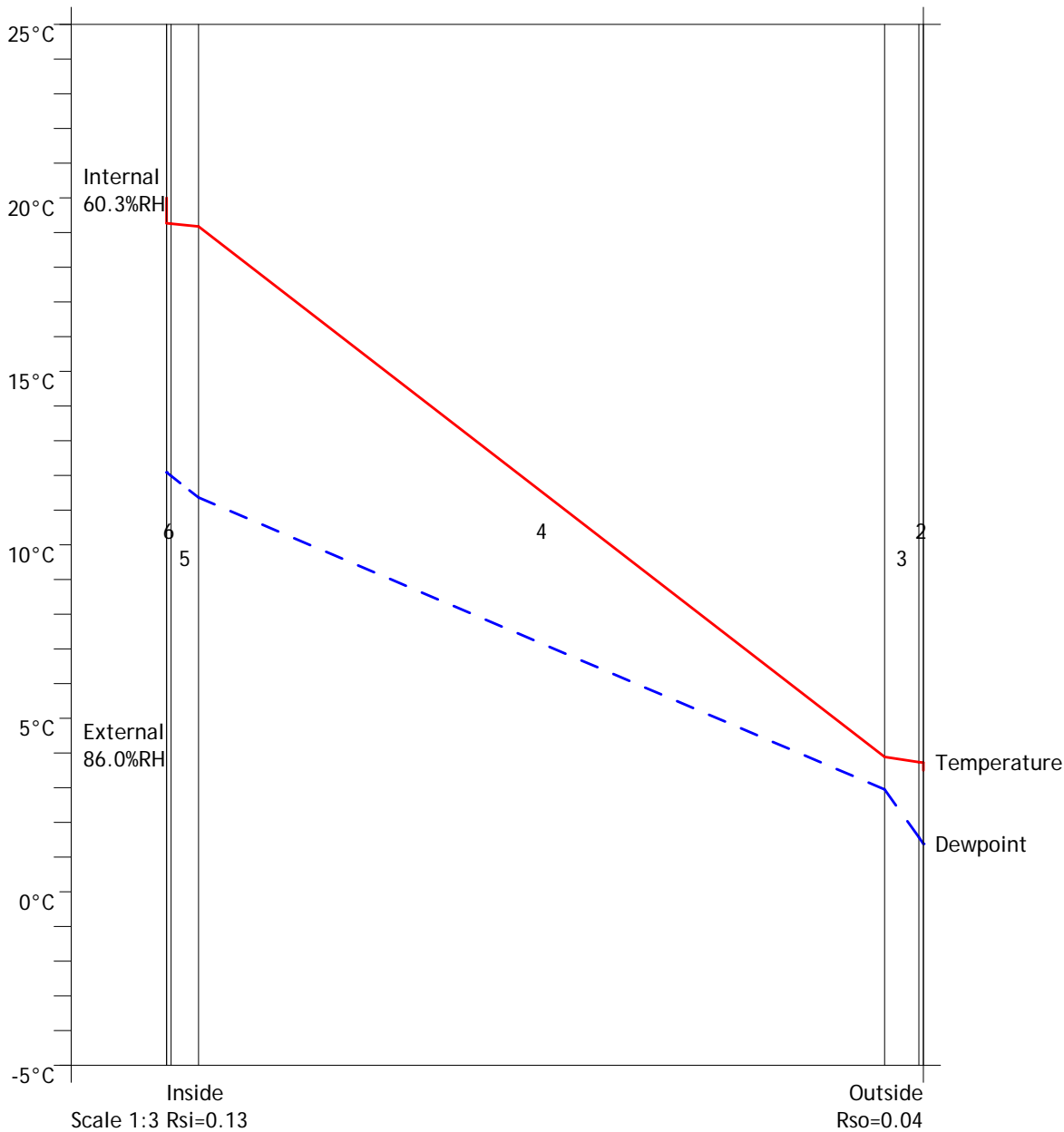
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.80			No
3 BaunitBayosan MP69 / W Lightweight Render	3.7	1.6	0.68	0.80			No
4 ThermoPlan ZT / ZV 11 300 Block	3.9	3.0	0.75	0.81			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.2	11.4	1.34	2.22			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.3	12.0	1.40	2.23			No
7 Inside surface resistance	19.3	12.1	1.41	2.23			No

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



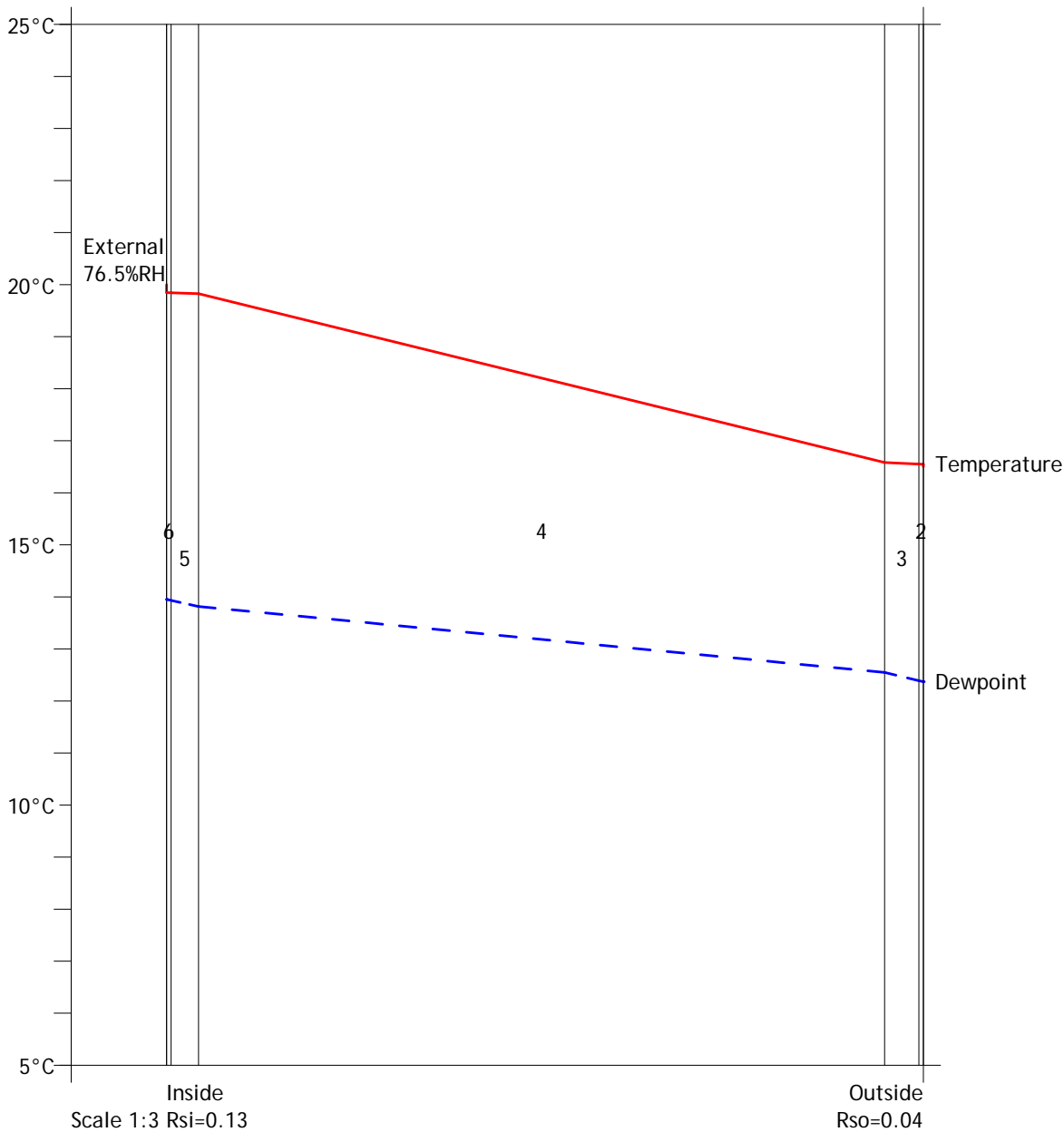
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MP69 / W Lightweight Render	16.6	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 11 300 Block	16.6	12.5	1.45	1.89			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.8	13.8	1.58	2.31			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.8	13.9	1.59	2.31			No
7 Inside surface resistance	19.8	14.0	1.59	2.31			No

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





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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 11 - 365MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 MP69 / W Lightweight Render	15.0	0.560	0.027	50.00	0.75
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 - 0.28W/m²K

U-value, Combined Method : 0.28 W/m²K (upper/lower limit 3.534 / 3.534 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

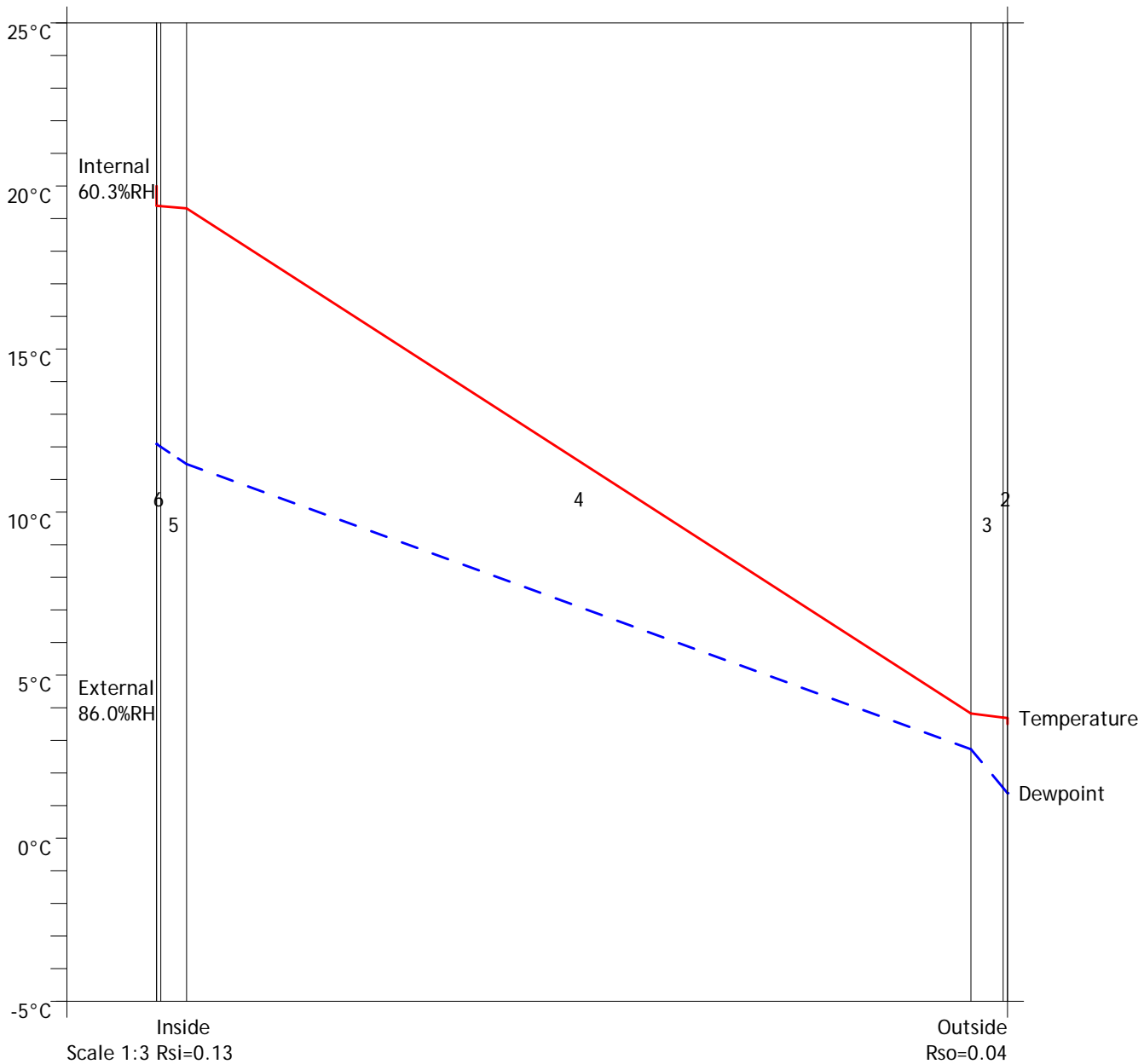
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.80			No
3 BaunitBayosan MP69 / W Lightweight Render	3.7	1.5	0.68	0.80			No
4 ThermoPlan ZT / ZV 11 365 Block	3.8	2.7	0.74	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.3	11.5	1.35	2.24			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.4	12.0	1.40	2.25			No
7 Inside surface resistance	19.4	12.1	1.41	2.25			No

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



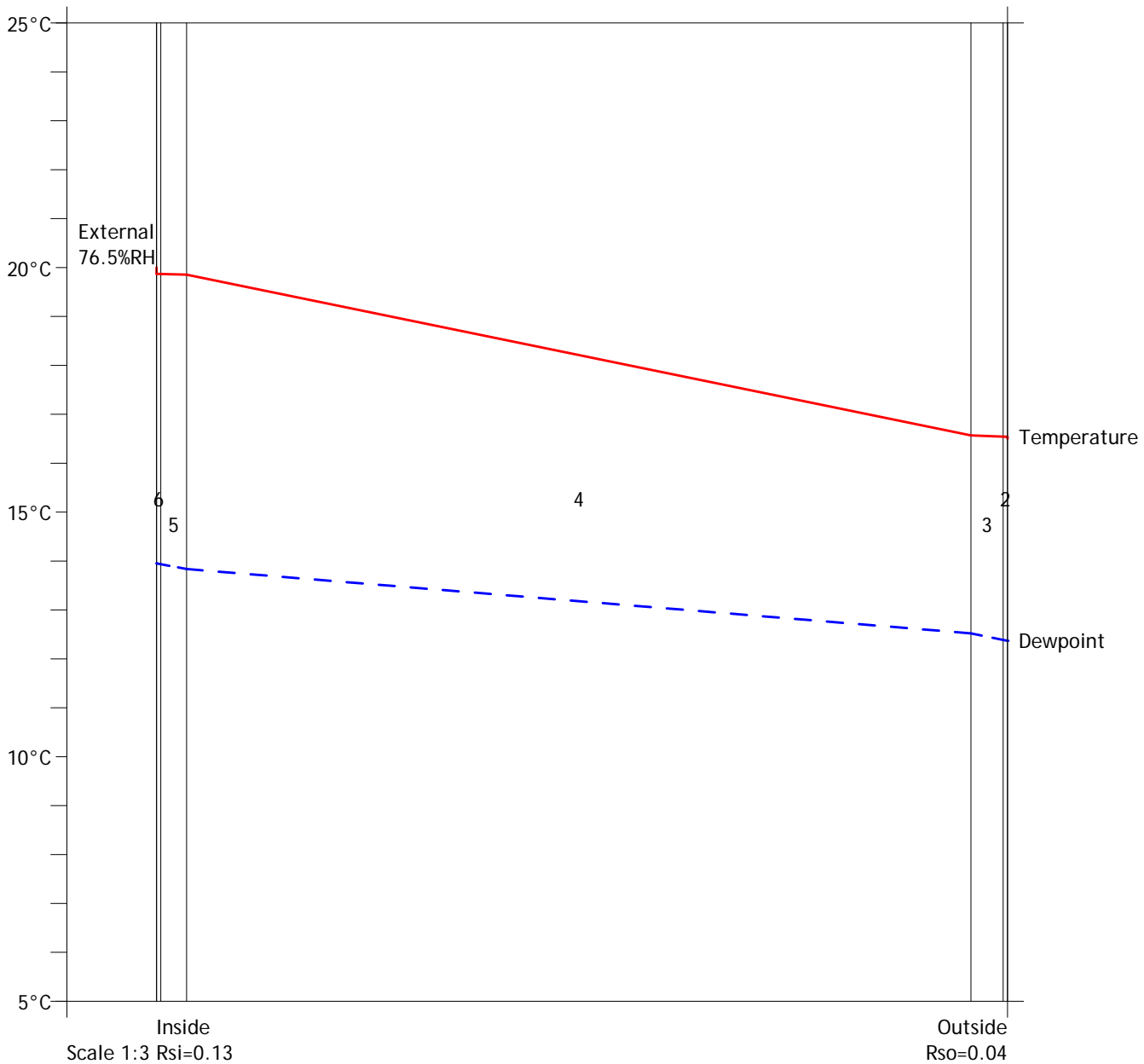
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MP69 / W Lightweight Render	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 11 365 Block	16.6	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.8	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 11 - 425MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 MP69 / W Lightweight Render	15.0	0.560	0.027	50.00	0.75
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 - 0.25W/m²K

U-value, Combined Method : 0.25 W/m²K (upper/lower limit 4.080 / 4.080 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

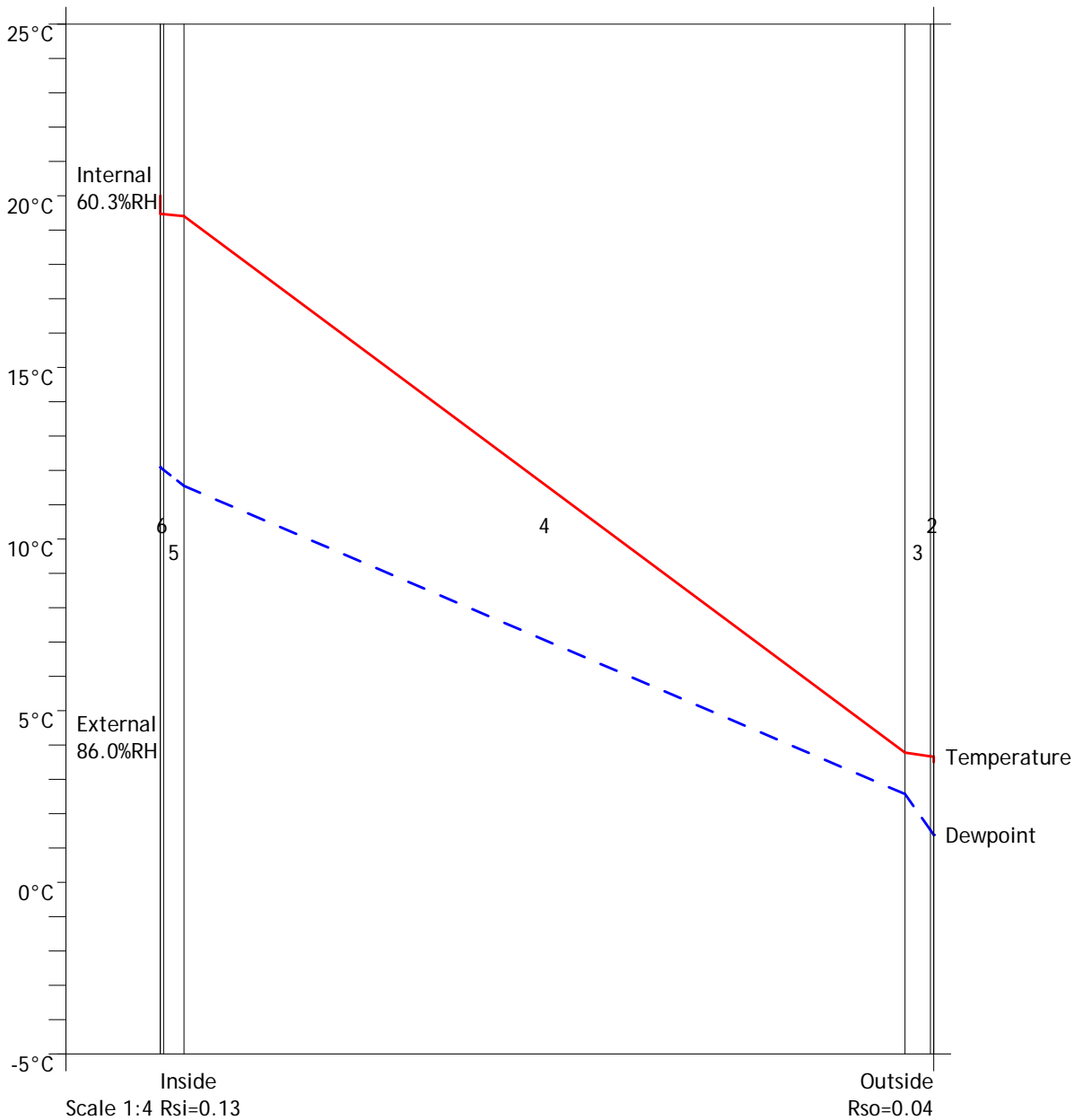
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.7	1.4	0.67	0.79			No
3 BaunitBayosan MP69 / W Lightweight Render	3.7	1.5	0.68	0.79			No
4 ThermoPlan ZT / ZV 11 425 Block	3.8	2.6	0.73	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.4	11.5	1.36	2.25			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.26			No
7 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



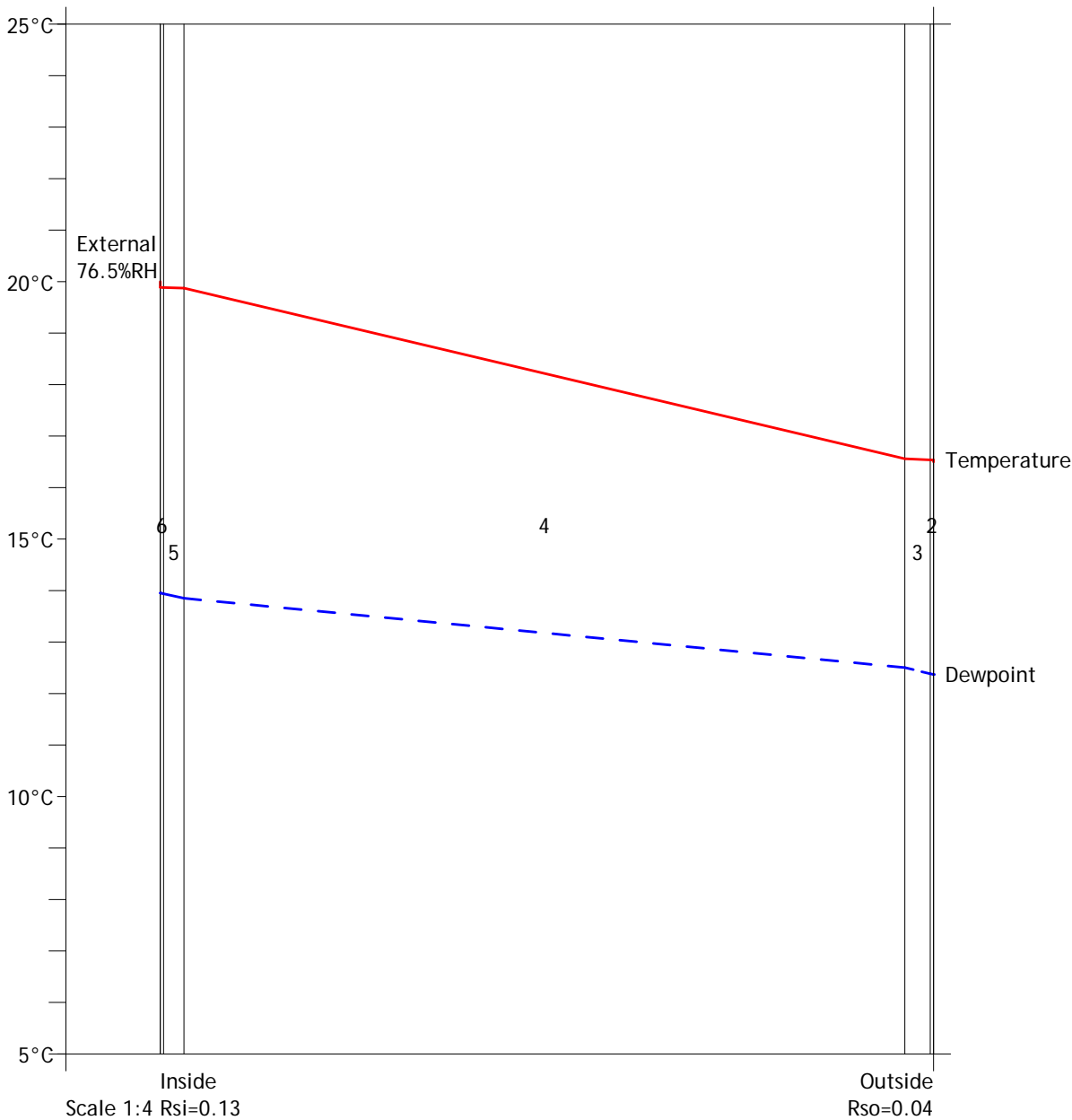
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MP69 / W Lightweight Render	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 11 425 Block	16.6	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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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Project Information

Reference

Date 23 Oct 2006

Client NBT THERMOPLAN TYPICAL DATA

Construction type

Element : Wall - ZT/ ZV 11 - 490MM

Internal surface emissivity : High External surface emissivity : High

Construction

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² 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 MP69 / W Lightweight Render	15.0	0.560	0.027	50.00	0.75
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 - 0.21W/m²K

U-value, Combined Method : 0.21 W/m²K (upper/lower limit 4.671 / 4.671 m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m²K)

(Correction for air gaps, Delta Ug = 0.000W/m²K)

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/m²

Annual moisture accumulation = 0.00000 Kg/m²

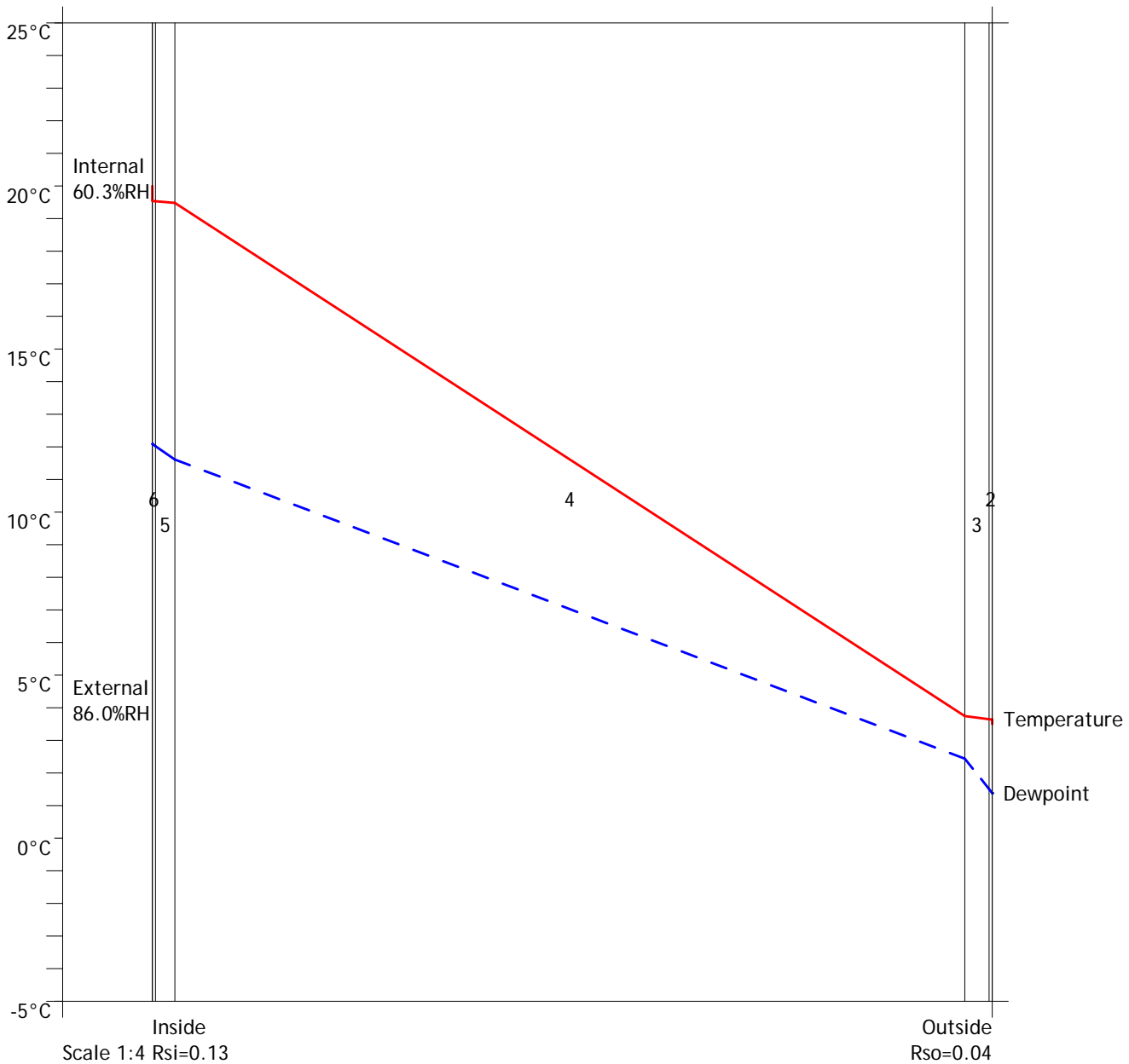
Condensation Risk Analysis (no account taken of thermal bridges)

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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	3.6	1.4	0.67	0.79			No
3 BaunitBayosan MP69 / W Lightweight Render	3.6	1.5	0.68	0.79			No
4 ThermoPlan ZT / ZV 11 490 Block	3.7	2.4	0.73	0.80			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.5	11.6	1.37	2.26			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.5	12.0	1.40	2.27			No
7 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 ²)	Peak Buildup (g/m ²)	Condensation
1 Outside surface resistance							
2 BaunitBayosan SEP01/02/03/04 Decor Finish	16.5	12.4	1.44	1.88			No
3 BaunitBayosan MP69 / W Lightweight Render	16.5	12.4	1.44	1.88			No
4 ThermoPlan ZT / ZV 11 490 Block	16.6	12.5	1.45	1.88			No
5 BaunitBayosan K38 (RK38) Pure Lime Plaster	19.9	13.9	1.58	2.32			No
6 BaunitBayosan K30 (RK30) Pure Lime Skim Coat	19.9	13.9	1.59	2.32			No
7 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

