

### 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> )	Conden-sation
1 Outside surface resistance							
2 Liquid Waterproofing	3.7	1.4	0.67	0.80			No
3 Bi3	3.7	1.5	0.68	0.80			No
4 Asphalt	18.4	1.6	0.69	2.12			No
5 Screed - cast (BS5250)	18.7	12.1	1.41	2.16		0 in Mar	No
6 Concrete, dense (BS5250)	18.9	12.1	1.41	2.19			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

Scale 1:3

