



## U-Value & Condensation Risk calculation request form

Due to high demand for our free calculation service, priority will be given to U-values requested via correctly completed forms as below. Please complete Contact Details, Required Data for All Projects, and the U-value option(s) needed for the project.

EMAIL ADDRESS(ES)	DATE

### Building use, location etc

REQUIRED DATA (ALL PROJECTS)	YOUR ANSWERS
Building use: (choose one category only) 1 Storage areas, warehouse 2 Offices, shops 3 Dwellings with low occupancy, standard house or flat 4 Buildings with high occupancy, sports halls, schools 5 Special buildings, laundry, brewery, swimming pool	
New or existing building?	
Building location: (at least nearest town or city)	
Internal temperature: (if other than approx. 20C)	
Project name or client reference:	

### Option 1 Domestic type Pitched Roof $\geq 15^\circ$ , insulation at rafter line (heated habitable room)

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Roof covering: slate / concrete / clay / specify other	
Covering thickness mm:	
Substrate: direct to covering / felt / breather membrane / sarking board	
<i>If direct to covering, tiling batten depth, width &amp; centres mm:</i>	
Timber rafter depth mm:	
Timber rafter width mm:	
Timber rafter centres mm:	
Proposed internal finish and thicknesses mm:	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 2 Domestic type Pitched Roof  $\geq 15^\circ$ , insulation at rafters and joists (loft storage)**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Roof covering: slate / concrete / clay / specify other	
Covering thickness mm:	
Substrate: direct to covering / felt / breather membrane / sarking board	
<i>If direct to covering, tiling batten depth, width &amp; centres mm:</i>	
Timber rafter depth mm:	
Timber rafter width mm:	
Timber rafter centres mm:	
Proposed rafter level internal finish and thicknesses mm:	
Timber joist depth mm:	
Timber joist width mm:	
Timber joist centres mm:	
<i>Any joist level insulation details and thickness mm:</i>	
<i>If loft floor is largely boarded, details and thickness mm:</i>	
Roof pitch: (if other than approx. $30^\circ$ )	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 3 Domestic type Flat Roof  $< 15^\circ$ , insulation at joists**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Roof covering: (manufacturer's product name / reference)	
Covering thickness mm:	
Substrate: plywood / specify other, and thickness mm:	
Timber joist depth mm:	
Timber joist width mm:	
Timber joist centres mm:	
Proposed internal finish and thicknesses mm:	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 4 Cavity Wall**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Any render type and thickness mm:	
Outer leaf type: brick / block / sandstone / granite / specify other	
Outer leaf thickness mm:	
Cavity width mm (average or range):	
Wall tie type: double triangle / vertical twist / specify other	
Wall tie material: stainless steel / mild steel / plastic / etc	
<i>Wall tie centres: (if other than 900 x 450mm)</i>	
Inner leaf type: brick / block / sandstone / granite / specify other	
Inner leaf thickness mm:	
Internal finish and thicknesses mm: plasterboard on dabs or battens / wet plaster / specify other	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 5 Soffit**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Concrete thickness mm:	
Profiled metal deck present? Y/N	
Concrete beams can be sprayed to same depth as slab? Y/N	
<i>If slab is supported on steel I-beams:</i>	
<i>Steel beam depth mm:</i>	
<i>Steel beam (flange) width mm:</i>	
<i>Steel beam centres mm:</i>	
<i>Steel beam web thickness mm:</i>	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 6 Agricultural / Industrial type Pitched Roof  $\geq 15^\circ$ , insulation at purlins**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Roof covering: fibre cement / metal cladding / specify other	
Covering thickness mm:	
<i>If spraying the interior:</i>	
<i>Steel purlin depth mm:</i>	
<i>Steel purlin (flange) width mm:</i>	
<i>Steel purlin centres mm:</i>	
<i>Steel purlin web thickness mm:</i>	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**Option 7 Agricultural / Industrial type Wall**

REQUIRED DATA	YOUR ANSWERS
State U-value target or 'regs'	
Wall cladding: fibre cement / metal cladding / specify other	
Cladding thickness mm:	
<i>If spraying the interior:</i>	
<i>Steel stud depth mm:</i>	
<i>Steel stud (flange) width mm:</i>	
<i>Steel stud centres mm:</i>	
<i>Steel stud web thickness mm:</i>	
IF NON-STANDARD PLEASE WRITE 'SEE ADDITIONAL'	

**ADDITIONAL DATA**

Please provide additional data regarding non-standard aspects here. These may include rainscreen cladding; inverted roofs; sandwich panel roofs etc.

For floors; timber frame walls; basement insulation, non-traditional construction, or other constructions not listed here please contact:  
Rob Smith,  
Technical Service Manager.

Completed forms to [technical@isothane.com](mailto:technical@isothane.com)

*All U-values and Condensation Risk Analysis calculations must be calculated on a case-by-case basis. Isothane Ltd relies on the accuracy of information provided in producing these calculations.*

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