Calculation Request Form

SIG will provide a U-value calculation and/ or condensation risk analysis service to demonstrate compliance with current Building Regulations / Standards and best practice. These calculations can be supported with a detailed specification if you require.

U-value calculations must be performed in accordance with BS 6946: 2007 using a method known as the 'Combined Method'. Calculations should also be carried out in strict accordance with the guidance issued in BR 443 Conventions for U-value calculations (2006) and should be undertaken by competent persons (*as per the requirement stated in Part L of Building Regulations 2019*).

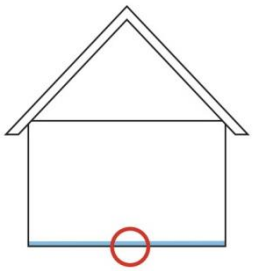
Simply fill in this form and email it to: calc@sig.ie
*Mandatory Field.

***Date of Request:**
***Contact Name:**
***Email:** **Tel:**
***Company Name:**
Address: **Postcode:**

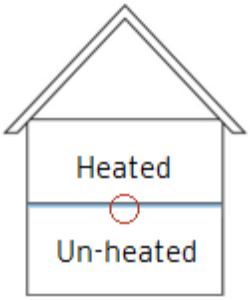
***Project Name:**
Project ID:
***Project Address:** **Postcode:**
***Project Type:** **NEW / REFURBISHMENT / EXTENSION**
***Project Value: £**
***Project Stage:**
Storeys:

The calculation that will be supplied is specific to the named project ONLY and not to be used outside of the named project.
Use outside of named project will invalidate the calculation.

Floors

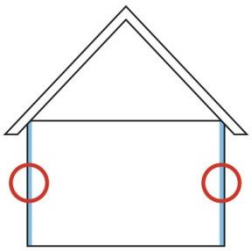


Ground Floors				
Please note: for ***GROUND*** floors we will also require the exposed perimeter (m) and area (m²). If these are not filled in, we will be unable to perform a thermal calculation.				
From inside to out	**Example**	**Floor 1**	**Floor 2**	**Floor 3**
Internal Layer 1	Screed 75mm			
Layer 2	Separation Layer			
Layer 3	Insulation			
Layer 4	DPM			
Layer 5	Concrete 150mm			
Layer 6				
Layer 7				
Layer 8				
Layer 9				
External Layer 10				
Exposed Perimeter - Must be Included	12.5m			
Area – Must be included	115m²			
U Value Required	0.22			



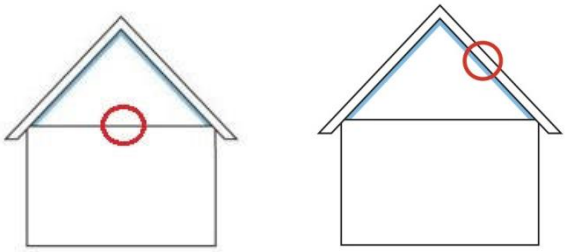
Soffits and Semi Exposed Floors				
Please note: a soffit or semi-exposed floor is a floor above an unheated internal or semi-exposed space, with a heated space above.				
From inside to out	**Example**	**Floor 1**	**Floor 2**	**Floor 3**
Internal Layer 1	Screed 75mm			
Layer 2	Concrete 150mm			
Layer 3	Insulation			
Layer 4	Unheated Space:- Garage			
Layer 5				
Layer 6				
Layer 7				
Layer 8				
Layer 9				
External Layer 10				
Area – Must be included	115m²			
U Value Required	0.22			

Walls



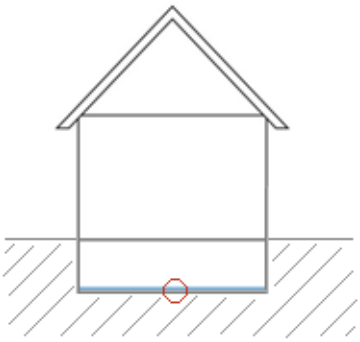
Walls Above Ground				
From inside to out	**Example**	**Wall 1**	**Wall 2**	**Wall 3**
Internal Layer 1	Plaster Skim 3mm			
Layer 2	Plasterboard 12.5mm			
Layer 3	VCL			
Layer 4	Timber Frame 200mm x 46mm @600 c/c			
Layer 5	Insulation 200mm			
Layer 6	OSB 9mm			
Layer 7	Breather Membrane			
Layer 8	Cavity 50mm			
Layer 9	Brick 102.5mm			
External Layer 10				
Wall Ties	Ancon Teplo-L-5-165 4.4/m^2			
U Value Required	0.16			

Roofs

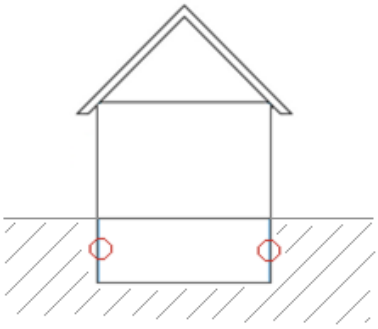


Roofs (Pitched, Flat and Tapered)				
Please note: it is vital that you include the waterproofing membrane and fixing method for a flat roof. It is also vital that you include the centres of the joists/rafters and the rafter/joist depth				
From inside to out	**Example**	**Roof 1**	**Roof 2**	**Roof3**
	Pitched			
Internal Layer 1	Plasterboard 12.5			
Layer 2	Rafters 150mm x 34mm@ 400mm c/c			
Layer 3	Insulation 150mm			
Layer 4	VCL			
Layer 5	Ply 18mm			
Layer 6	Batten/ Counter Batten 25mm			
Layer 7	Slate Tiles			
Layer 8				
Layer 9				
External Layer 10				
U Value Required	0.18			

Basements



BASEMENT FLOORS				
Please note: for ***BASEMENT*** floors we will also require the exposed perimeter (m), area (m²) and average depth below ground (basement only). If these are not filled in, we will be unable to perform a thermal calculation.				
From inside to out	**Example**	**Floor 1**	**Floor 2**	**Floor 3**
Internal Layer 1	Screed 75mm			
Layer 2	Separation Layer			
Layer 3	Insulation			
Layer 4	DPM			
Layer 5	Concrete 150mm			
Layer 6				
Layer 7				
Layer 8				
Layer 9				
Layer 10				
Exposed Perimeter - Must be Included	12.5m			
Area – Must be included	115m²			
Average depth below ground against earth - Must be included	2.5m			
U Value Required	0.22			



BASEMENT WALLS

Please note: for ***BASEMENT RETAINING WALLS*** we will also require the exposed perimeter (m), area (m²), the average depth below ground and the type and thickness of insulation in the basement floor. If these are not filled in correctly we will not be able to perform the calculations.

From inside to out	Example	Wall 1	Wall 2	Wall 3
Internal Layer 1	Plaster Skim			
Layer 2	Plasterboard 12.5mm			
Layer 3	VCL			
Layer 4	Batten cavity 25mm			
Layer 5	concrete wall 200mm			
Layer 6	Tanking system			
Layer 7	Insulation			
Layer 8	External ground			
Layer 9				
External Layer 10				
Wall Thicknesses	300mm			
Floor Area - BASEMENT ONLY	65m²			
Exposed Perimeter - BASEMENT ONLY	30m			
Average Depth below ground against earth - BASEMENT ONLY	2.5m			
U Value Required	0.28			

ADDITIONAL INFORMATION If you have any further comments please leave them below.