

# GREEN GUIDE ONLINE CALCULATOR TOOL

## Available Components List (Grouped)

For step by step instructions on how to use the tool please see the separate guidance document PN284 available from [www.thegreenguide.org.uk](http://www.thegreenguide.org.uk).

**NOTE:** For an Element Specification to comply with the regulations set out in the BREEAM/EcoHomes/Code for Sustainable Homes, a generic type of insulation must be assumed. The components which contain this insulation material are marked with a \* character at the end of the description.

# The Green Guide Calculator Components List (Grouped)

**Group**      **Component Description**

## Base/Subbase - Aggregate

Aggregate, hardcore base & sub-base, blinding, 150mm

Recycled aggregate, hardcore base & sub-base

## Battens/Joists/Studs - Glass wool

Proprietary foil faced glass wool acoustic batt (E-WM-17)

## Battens/Joists/Studs - MDF

MDF battens, 5 kg/m<sup>2</sup>

## Battens/Joists/Studs - Metal

Metal stud for plasterboard lining (1.08 kg/m<sup>2</sup>)

Metal stud infill, 100x50mm (non structural)

Metal stud infill, 150x50mm (non structural)

## Battens/Joists/Studs - Steel

Cold rolled steel joists

Joists, cold rolled steel, galvanised

Steel jumbo stud

Steel studwork, 100mm

Steel studwork, 48mm

Steel studwork, 75mm

## Battens/Joists/Studs - Timber

Preserved timber joists, firrings, for flat roofing

Timber battens, 38x38mm, 450mm c/c

Timber battens, 5 kg/m<sup>2</sup>

Timber battens, 50x38mm, 450mm c/c

Timber Battens, less than 600mm c/c, Horizontal or Vertical

Timber I joist, 240mm min

Timber I joists

Timber joists, C16, 40mm c/c

Timber joists, C24, 400mm c/c

Timber joists, solid, E-FT-2

Timber stud infill, 140x38mm (non structural)

Timber studwork, 37x75mm (420kg/m<sup>3</sup>), 400mm c/c

## Cavity - Airspace

Cavity (any size)

## Cladding & Roof Covering - Aluminium

Aluminium cladding support frame

Aluminium standing seam (single skin)

Aluminium standing seam roofing (single skin)

Built up, coated aluminium standing seam, aluminium liner, insulation, steel supports \*

Built up, profiled, coated aluminium standing seam, steel liner, mineral wool insulation \*

Built up, profiled, mill finish aluminium outer and liner, mineral wool insulation \*

<b>Group</b>	<b>Component Description</b>
	Coated aluminium weather sheet, coated galv. steel inner sheet, PU insulation, steel supports
	Extruded aluminium cladding rail system
	Mill finish aluminium weather sheet, coated galv. steel inner liner, PU insulation, steel supports
	Powder coated aluminium with steel liner, pentane PIR/PUR insulation
	Profiled roof cladding, coated aluminium weather sheet and liner, mineral wool insulation *
<b>Cladding &amp; Roof Covering - Asphalt</b>	
	Asphalt roofing, 20mm, sheathing felt
<b>Cladding &amp; Roof Covering - Brick</b>	
	Brick slips, 25mm
<b>Cladding &amp; Roof Covering - Calcium silicate</b>	
	Calcium silicate board, 10mm
<b>Cladding &amp; Roof Covering - Ceramic tile</b>	
	Ceramic tile paving 20mm
<b>Cladding &amp; Roof Covering - Clay tile</b>	
	Cladding, plain clay tile, battens, building paper
	Plain clay tiles, battens, counter battens, roofing underlay, pitched
	Reclaimed clay tiles, battens, counter battens, roofing felt, pitched
<b>Cladding &amp; Roof Covering - Concrete</b>	
	Cladding, concrete interlocking tiles, battens, building paper
	Concrete interlocking tiles, battens, counter battens, roofing felt, pitched
	Concrete paving slabs, permable membrane
	Plain concrete roof tiles, battens, pitched
<b>Cladding &amp; Roof Covering - Copper</b>	
	Built up, copper standing seam, coated steel liner, mineral wool insulation *
	Cladding, angle seamed copper, temperate plywood (636-2) sheathing
	Cladding, copper 1.5mm, steel supports
	Cladding, copper outer, steel inner, insulation, steel supports *
	Cladding, copper outer, steel inner, stone wool insulation, steel supports
	Cladding, copper, 1mm, steel fixing rails
<b>Cladding &amp; Roof Covering - Fibre cement</b>	
	Cladding, autoclaved fibre cement sheet, anodised aluminium inserts
	Cladding, autoclaved fibre cement sheet, steel rails
	Cladding, autoclaved fibre cement sheet, timber battens, counter battens
	Cladding, fibre cement sheet, aluminium framework
	Fibre cement slates, battens, counter battens, roofing felt, pitched
<b>Cladding &amp; Roof Covering - Glass reinforced</b>	
	Glass reinforced concrete panel 23mm, stainless steel fixings
	Glass reinforced concrete panel, 23mm, stainless steel fixings
	Glass reinforced plastic (GRP) cladding, aluminium support
<b>Cladding &amp; Roof Covering - HPL</b>	
	Rainscreen cladding, high pressure laminate (HPL) resin impregnated cellulose, steel support
	Rainscreen cladding, high pressure laminate (HPL) resin impregnated cellulose, timber battens

Group	Component Description
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<b>Cladding &amp; Roof Covering - Lead</b>	
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Code 5 Lead sheet & wood cored roll, building paper, plywood - Flat Roof only
Code 5 Lead sheet & wood cored roll, building paper, plywood - Low Pitched Roof only
Code 5 Lead sheet & wood cored roll, building paper, plywood - Standard Pitched Roof only
Code 5 Lead sheet & wood cored roll, building paper, plywood, battens - Wall Cladding only
Code 5 Lead sheet & wood cored roll, OSB - Flat Roof only
Code 5 Lead sheet & wood cored roll, softwood, geotextile underlay - Flat Roof only
Code 5 Lead sheet & wood cored roll, softwood, geotextile underlay - Standard Pitched Roof only
Code 5 Lead standing seam, plywood (softwood) - Warm Roof

<b>Cladding &amp; Roof Covering - MDF</b>	
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MDF External Cladding Panel, waterbased stain, timber battens
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<b>Cladding &amp; Roof Covering - Natural Stone</b>	
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Cladding, limestone handset
Cladding, limestone precast
Granite cladding or roof covering
Granite for precast cladding
Limestone split stone, 75mm
Rainscreen cladding, imported granite, stainless steel support
Rainscreen cladding, imported Italian marble, stainless steel support
Rainscreen cladding, limestone, stainless steel supports
Rainscreen cladding, sandstone, stainless steel supports
Reconstituted Stone Cladding Panel, 10mm
Reconstituted Stone Cladding Panel, 7mm
Sandstone facing
Sandstone, split faced, 75mm

<b>Cladding &amp; Roof Covering - Pebbles</b>	
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Pebbles, for roof covering
Rounded pebbles, permeable membrane, for inverted deck roofs (35 yrs)
Rounded pebbles, permeable membrane, for inverted deck roofs (50 yrs)

<b>Cladding &amp; Roof Covering - Photovoltaic</b>	
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Photovoltaic roofing tiles, battens, roofing felt, pitched
Photovoltaic tiles, wall cladding

<b>Cladding &amp; Roof Covering - Polyethylene</b>	
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Rainscreen panel, Alpollic, PE sheet 3mm, aluminium sheets 2x0.5mm, HD PE breather membrane, steel support
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<b>Cladding &amp; Roof Covering - Precast concrete</b>	
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Cladding, precast concrete, loadbearing
Cladding, precast concrete, non-loadbearing

<b>Cladding &amp; Roof Covering - Proprietary</b>	
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BURLINGTON STONE KIRKBY BLUE SLATE 30mm rainscreen cladding, steel support
BURLINGTON STONE KIRKBY BLUE SLATE 7mm tile, battens, felt, 35° Pitch
BURLINGTON STONE KIRKBY BLUE SLATE 9mm tile, battens, felt, 35° Pitch
CEMBRIT (Czech) fibre cement slates, battens, counterbattens, felt, 35° pitch

Group	Component Description
	Cladding, MEDITE ECOLOGIQUE MDF, battens, water based stain
	Cladding, MEDITE EXTERIOR MDF, battens, water based stain
	HOESCH ARCHED 183mm (organic coated steel outer & inner, insulation), steel supports *
	HOESCH ARCHED ROOF (organic coated steel outer & inner, PU insulation)
	HOESCH ISODACH INTEGRAL 155mm (organic coated steel outer & inner, PU insulation)
	HOESCH ISODACH INTEGRAL 155mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH ISODACH MONO 155mm (organic coated steel outer & inner, PU insulation)
	HOESCH ISODACH MONO 155mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH ISOROCK INTEGRAL D 200mm (organic coated steel outer & inner, mineral wool insulation), steel supports
	HOESCH ISOROCK INTEGRAL D 200mm (organic coated steel outer & inner, mineral wool insulation)
	HOESCH ISOWAND VARIO 140mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH ISOWELLE 104mm (organic coated steel outer & inner, PU insulation)
	HOESCH ISOWELLE 104mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH MATRIX 160mm (organic coated steel outer & inner, mineral wool insulation), steel frame
	HOESCH POLYGON ARCH, TRAPEZOIDAL/TRAPEZOIDAL AKUSTIC (organic coated steel outer & inner, PU insulation)
	HOESCH POLYGON ARCH, TRAPEZOIDAL/TRAPEZOIDAL AKUSTIC 183mm (organic coated steel outer & inner, insulation), steel support *
	HOESCH THERMODACH 175mm (organic coated steel outer & inner, PU insulation)
	HOESCH THERMODACH 175mm (organic coated steel outer & inner, PU insulation), steel supports
	KINGSPAN KS 1000/2000 RW Roof Panel 120mm, ECOSAFE insulation core
	RHEINZINK-prePATINA angled standing seam, 0.7mm
	RHEINZINK-prePATINA double standing seam, 0.7mm
	RHEINZINK-prePATINA flat-lock tile, 0.8mm
	RHEINZINK-prePATINA flat-lock tile, temperate plywood (636-2) backing
	RHEINZINK-prePATINA reveal panel, 1mm
	RHEINZINK-prePATINA standing seam 0.8mm, temperate plywood (636-2) backing
	SANDTOFT BRITLOCK resin bonded slates, battens, roofing felt, pitched
	SANDTOFT BRITSLATE COUNTESS resin bonded slates, battens, roofing felt, pitched
	SANDTOFT BRITSLATE DUCHESS resin bonded slates, battens, roofing felt, pitched
	VMZINC QUARTZ ZINC 0.7mm overlapping wall panels
	VMZINC QUARTZ ZINC PLUS 0.7mm
	VMZINC QUARTZ ZINC PLUS 0.7mm, plywood sheathing, battens
	VMZINC QUARTZ ZINC PLUS 0.8mm, plywood sheathing
	VMZINC QUARTZ ZINC standing seam 0.7mm
<b>Cladding &amp; Roof Covering - PVC</b>	
	PVC Internal wall cladding, plasterboard, acrylic adhesive
	PVC Internal Wall Cladding, PU adhesive
	Weatherboarding, cellular pvc, battens
<b>Cladding &amp; Roof Covering - Recycled plastic</b>	
	Recycled plastic tile

Group	Component Description
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<b>Cladding &amp; Roof Covering - Render</b>	
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	Render, polymeric
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<b>Cladding &amp; Roof Covering - Slate</b>	
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	Cladding, UK slate, stainless steel support
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	Polymer modified cement slates, battens, counter battens, roofing felt, pitched
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	Reclaimed slates, battens, counter battens, felt, pitched
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	Resin bonded slates, battens, counter battens, roofing felt, pitched
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	UK slates, battens, counter battens
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	UK slates, battens, roofing felt, pitched
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<b>Cladding &amp; Roof Covering - Steel</b>	
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	Built up, coated steel weather sheet and liner, mineral wool insulation *
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	Coated aluminium sheet, HD PE breather membrane, insulation, steel rails *
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	Coated galv. steel inner & outer sheets, mineral wool insulation, steel support system *
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	Coated steel inner & outer profiled sheeting, polyurethane insulation, steel rails
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	Coated steel inner & outer profiled sheeting, polyurethane insulation, steel rails
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	Coated steel inner & outer profiled sheeting, stone wool insulation, steel rails
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	Coated steel profiled double skin cladding
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	Coated steel profiled single skin cladding
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	Coated steel sheet, HD PE breather membrane, insulation, steel rails *
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	Coated steel weather sheet and liner, pentane PIR/PUR insulation
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	Mill finish stainless steel weather sheet, coated galv. steel inner liner, PU insulation, steel supports
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	Stainless steel weather sheet, coated galv. steel inner liner, insulation, steel supports *
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	Steel support brackets
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<b>Cladding &amp; Roof Covering - Terracotta</b>	
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	Cladding, terracotta, aluminium framework
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	Terracotta Rainscreen Cladding, aluminium support
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	Terracotta tile
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<b>Cladding &amp; Roof Covering - Timber</b>	
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	Cedar cladding or tile
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	Cladding, timber, canadian western red cedar
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	Weatherboarding, treated softwood
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	Weatherboarding, treated softwood, battens
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<b>Floor Structure - Aluminium</b>	
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	Lattice beams, aluminium/timber
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<b>Floor Structure - Beam and Block</b>	
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	Beam & EPS block floor
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	Beam and aircrete block flooring
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	Beam and cellular dense block flooring
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	Beam and dense block flooring
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	Beam and dense block flooring, screed 50mm min.
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	Beam and expanded polystyrene flooring
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	Beam and extruded polystyrene, CO2 blown, block flooring
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Group	Component Description
	Beam and extruded polystyrene, HFC blown, block flooring
	Beam and medium dense block flooring
	Prestressed beam and aircrete block, 175mm
	Prestressed concrete beam and aircrete block, 225mm
<b>Floor Structure - Ceiling</b>	
	CT1/3, Metal ceiling system - 100 / 75mm void
	CT2, Timber battens, counterbattens
	CT4, Timber battens, metal resilient bars
	Plasterboard, 2 layers, 19 & 12mm, 150mm metal suspended ceiling, fixings
	Plasterboard, 2 layers, 2x15mm, 100mm metal suspended ceiling, fixings
<b>Floor Structure - Composite</b>	
	Lattice beams, steel/timber
<b>Floor Structure - Floating floor treatment</b>	
	FFT 1/2/3 OSB
	FFT 1/2/3 Plywood
	FFT 1/2/3/5 chipboard
	FFT 2 resilient cradle, batten, 22 or 18mm chipboard/OSB/plywood, PU foam
	FFT 4 a resilient overlay platform floor system
	FFT 4 b resilient overlay platform floor system
	FFT 4 c resilient overlay platform floor system
	FFT 6 composite platform type floating floor system
	FFT 7 gypsum screed 40mm, PE 500 guage, proprietary board 34mm
<b>Floor Structure - In situ concrete</b>	
	Fine aggregate 50mm, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 100% RCA, ground floor slab
	In situ concrete 20% RCA, upper floor slab
	In situ concrete 30% PFA 100% RCA, ground floor slab
	In situ concrete 30% PFA 20% RCA, upper floor slab
	In situ concrete 30% PFA, ground bearing slab
	In situ concrete 30% PFA, upper floor slab
	In situ concrete 50% GGBS 100% RCA, ground floor slab
	In situ concrete 50% GGBS 20% RCA, upper floor slab
	In situ concrete 50% GGBS, ground floor slab
	In situ concrete 50% GGBS, upper floor slab
	In situ concrete 50mm 100%RCA, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 50mm 30% PFA 100% RCA, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 50mm 30% PFA, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 50mm 50% GGBS 100% RCA, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 50mm 50% GGBS, plastic membrane 1200g, sand blinding 50mm
	In situ concrete 50mm, plastic membrane 1200g, sand blinding 50mm
	In situ concrete slab, 175mm
	In situ concrete slab, reinforced

Group	Component Description
	In situ concrete, ground floor slab
	In situ concrete, oversite
	In situ concrete, oversite, 100% RCA
	In situ concrete, oversite, 30% PFA
	In situ concrete, oversite, 30% PFA 100% RCA
	In situ concrete, oversite, 50% GGBS
	In situ concrete, oversite, 50% GGBS 100% RCA
	In situ concrete, reinforced, deep profiled metal decking
	In situ concrete, reinforced, post tensioned slab
	In situ concrete, reinforced, ribbed slab
	In situ concrete, reinforced, shallow profiled metal decking
	In situ concrete, reinforced, upper floor slab
	In situ concrete, reinforced, waffle slab
	In situ reinforced concrete 50% GGBS, 20% RCA
<b>Floor Structure - Precast concrete</b>	
	Precast concrete floor slab, hollow, reinforced
	Precast concrete formwork, lattice reinforcement, in situ deck, polystyrene formers, upper floors
	Precast concrete formwork, lattice reinforcement, in situ deck, upper floors
	Precast concrete slab, prestressed, hollow, 200mm, 40mm bonded screed, E-FC-1
	Precast concrete slab, reinforced, hollow, 225mm, 40mm bonded screed, E-FC-1
	Precast concrete, 150mm
	Precast plank, 300mm
	Precast slab, prestressed, hollow
<b>Floor Structure - Proprietary</b>	
	UPM WISA-SPRUCEFLOOR plywood 18mm
	UPM WISA-SPRUCEFLOOR plywood 18mm, battens
	UPM WISA-SPRUCEFLOOR plywood 18mm, battens, insulation, vapour control layer *
	UPM WISA-SPRUCEFLOOR plywood 18mm, insulation *
	UPM WISA-SPRUCEFLOOR plywood 18mm, steel floor cassette, plasterboard
	UPM WISA-SPRUCEFLOOR plywood 18mm, timber joists
<b>Floor Structure - Steel</b>	
	Steel floor cassette structure
	Steel floor cassette, chipboard, plasterboard
	Steel floor cassette, OSB, plasterboard
	Steel floor cassette, plywood, plasterboard
	Steel sections, twin beam
	Volumetric steel cassette floor and ceiling system, chipboard decking
<b>Frame - Concrete</b>	
	Concrete frame, reinforced
<b>Frame - Steel</b>	
	Light Steel Structure - 5 kg/m <sup>2</sup>
	Light Steel Structure - 7.25 kg/m <sup>2</sup>

Group	Component Description
	Steel partitions columns, enamelled
	Structural steel frame, heavy gauge
<b>Frame - Timber</b>	
	Timber structural frame, 140x45mm (420kg/m3)
<b>Glazing &amp; Curtainwalling - Aluminium</b>	
	Aluminium base channel for frameless glazing system
	Curtain walling, aluminium type 1, frames, fixings
	Curtain walling, aluminium type 2, frames, fixings
	Curtain walling, aluminium type 3, frames, fixings
	Spandrel panel, aluminium, coated, pentane PIR/PUR ISP1
	Spandrel panel, aluminium, coated, polyurethane insulated ISP1
<b>Glazing &amp; Curtainwalling - Glass</b>	
	Glass 6mm, foil faced
	Glass, 4mm, single glazing
	Glazing, 12mm
	Laminated sealed glass unit
	PTFE/ETFE coated glass cloth
<b>Glazing &amp; Curtainwalling - Polyurethane</b>	
	Polyurethane, glue bonded *
<b>Glazing &amp; Curtainwalling - Steel</b>	
	Galvanised steel support brackets
<b>Glazing &amp; Curtainwalling - Timber</b>	
	Double glazed softwood partition
	Hardwood veneered MDF frame, double glazed
	Hardwood veneered MDF frame, single glazed
	Laminated timber curtain walling type 5, mullions 1.5m spacing, 2 transoms, AL clamping strips, AL cover plate, fixings
	Laminated timber curtain walling type 7, mullions 2.4m spacing, 1 transom, AL clamping strips, AL cover plate, fixings
	Timber partition, softwood, single glazed
<b>Insulation - Structural</b>	
	Foamed glass, 200mm
	Proprietary foil faced glass wool acoustic batt (E-WM-8)
	Straw bale or thatch
<b>Insulation - Thermal/Acoustic</b>	
	100mm mineral wool quilt
	Cork resilient layer, 8mm
	Glass wool insulation, 50mm, 12.9kg/m3
	Glass wool insulation, 60mm, 35kg/m3
	Insulation - cavity partial fill *
	Insulation board, XPS CO2 blown
	Insulation Board, XPS CO2 blown, 10mm
	Insulation board, XPS HFC blown

Group	Component Description
	Insulation for beam and aircrete block with decking *
	insulation for beam and aircrete or lightweight block for use with screed above *
	Insulation for beam and lightweight block with deck above *
	Insulation for classroom walls, 25mm, 36 kg/m2 *
	Insulation for cold deck roof *
	insulation for concrete ground floor for use with bonded screed above *
	insulation for concrete ground floor for use with bouncing screed above *
	Insulation for concrete ground floor with deck above *
	Insulation for Galv. Steel (warm) low pitched roof *
	Insulation for galv.steel warm deck flat roof *
	Insulation for hollowcore floor *
	Insulation for inverted concrete or steel roof *
	Insulation for inverted timber roof *
	Insulation for light steel frame, 100x50mm *
	Insulation for light steel frame, 100x50mm, aluminium foil *
	Insulation for steel pitched roofs between and over joists *
	Insulation for timber ground floor *
	Insulation for timber pitched roofs between and over rafters *
	Insulation for warm beam and dense block roof *
	Insulation for warm in situ concrete deck roof *
	Insulation for warm timber deck roof *
	Insulation with timber frame, 600mm c/c *
	Insulation, cavity walls, full fill *
	Insulation, cavity walls, partial fill *
	Insulation, PU pentane blown for SIP roof 0 degrees
	Insulation, solid external walls *
	IsoRubber resilient layer, 6mm
	IsoRubber, resilient layer, 6mm
	Mineral wool 340mm, density 45 kg/m3
	Mineral wool quilt, 75mm, 45kg/m3
	Mineral wool, 25mm, 80kg/m3
	Phenolic Insulation, 100mm
	Phenolic Insulation, 50mm
	PIR Insulation, 100mm
	PIR Insulation, 20mm
	PIR Insulation, 50mm
	Polyethylene foam, closed cell, 5mm
	Polyethylene foam, Yelofon HD10+
	Proprietary resilient layer D, Icopal tranquilt 10mm, 95% recycled PU foam, polythene membrane
	Recycled cellulose insulation, dry blown, 27kg/m3
	Recycled cellulose insulation, wet blown, 50kg/m3
	Resilient layer, 8mm rubber, 0.2mm waterproof membrane

<b>Group</b>	<b>Component Description</b>
	Resilient layer, stone wool, 25mm, 140kg/m <sup>3</sup>
	Resilient layer, stone wool, 50mm, 35kg/m <sup>3</sup>
	Resilient layer, stone wool, 80mm, 36kg/m <sup>3</sup>
	Separating floors isolating layer 3, 25mm EPS insulation
	Separating floors isolating layer 4, 25mm XPS insulation (CO <sub>2</sub> blown)
	Sheep's wool insulation (25 kg/m <sup>3</sup> )
	Stone wool insulation, 25mm, 36kg/m <sup>3</sup>
	Stone wool insulation, 30mm, 33kg/m <sup>3</sup>
	Woodfibre board, 60mm
<b>Membrane - All Types</b>	
	Breather membrane
	EPDM layer, 0.7mm
	EPDM single ply roofing membrane, flat
	Glass fibre reinforcing mat
	Oxidised polyester reinforced bituminous membrane, pitched
	Polyester Cold Applied Liquid Roofing Membrane System (Primer)
	Polyester reinforced PVC single ply membrane
	Polyester underlay for built-up roof system
	Polyethylene DPM
	Polyethylene membrane
	Polyethylene membrane, spun bonded
	Polyethylene membrane, spun bonded, 25mm
	Polyethylene membrane, spun bonded, 50mm
	Polyethylene sheet, 500 gauge
	Polymer modified polyester reinforced bituminous membrane, flat
	Polymethylmethacrylate Cold Applied Liquid Roofing Membrane System
	Polyurethane Cold Applied Liquid Roofing Membrane System
	PVC single ply roofing membrane, flat
	TPO/FPO single ply roofing membrane, flat
	Vapour Control Layer (contains aluminium foil for low emissivity)
	Vapour control membrane, aluminium foil
<b>Reinforcement - Wire mesh</b>	
	Wire mesh for reinforcement
<b>Roof Structure - Aluminium</b>	
	Built up, mill finished aluminium standing seam, coated steel liner, insulation *
<b>Roof Structure - Copper</b>	
	Copper standing seam, ply, pitched
<b>Roof Structure - In situ concrete</b>	
	In situ concrete, reinforced
	In situ concrete, reinforced, 50% PFA 20% RCA
<b>Roof Structure - Precast concrete</b>	
	Precast concrete formwork, lattice reinforcement, in situ deck, roofing

Group	Component Description
	Precast concrete planks, prestressed, screed
<b>Roof Structure - Steel</b>	
	Decking, galvanised steel, supporting structure for inverted deck roof
	Decking, galvanised steel, supporting structure for warm deck roof
	Permanent steel shuttering, deck, beams
	Steel profiled metal deck for built-up roof system
	Steel structure for pitched and low pitched roofs
<b>Roof Structure - Timber</b>	
	Timber trussed rafters, 60mm c/c
<b>Sheeting/Decking/Finishes - Brick</b>	
	Brick finish for precast concrete
<b>Sheeting/Decking/Finishes - CBPB</b>	
	Cement bonded particleboard, 12.5mm
	Cement bonded particleboard, 19mm
	Sheathing, cement bonded particleboard, 12.5mm
<b>Sheeting/Decking/Finishes - Ceramic tile</b>	
	Ceramic tiles, 9mm
	Ceramic wall tiles, 15mm
<b>Sheeting/Decking/Finishes - Chipboard</b>	
	Chipboard (P5), 19mm, timber joists
	Chipboard (P5), insulation *
	Chipboard (P5), timber joists, insulation, DPM *
	Chipboard panels, flaxboard core, vinyl finish
	Chipboard, 19mm
	Chipboard, 19mm, battens
	Chipboard, 19mm, housing only
	Chipboard, 19mm, protected
	Chipboard, buried decking
<b>Sheeting/Decking/Finishes - Floor finish (generic)</b>	
	Separating floors proprietary floor covering A, 4.5mm recycled rubber crumb
	Separating floors proprietary floor covering B, 3mm recycled rubber crumb
<b>Sheeting/Decking/Finishes - Gypsum fibreboard</b>	
	Gypsum fibreboard, 12.5mm
<b>Sheeting/Decking/Finishes - OSB</b>	
	Decking, OSB, 15mm, battens
	Decking, OSB, 15mm, ground floors
	Decking, OSB, 15mm, insulation *
	Decking, OSB, 15mm, under FFT
	Decking, OSB, 15mm, upper floors
	Decking, OSB, 18mm
	Decking, OSB, 20kg/m2 min.
	Decking, OSB-3, 15mm, timber joists 600mm c/c

Group	Component Description
	Decking, OSB-3, 18mm, joists 600mm c/c
	Decking, OSB-3, battens, insulation, DPM *
	Sheathing for timber frame, OSB-3, 9mm
	Sheathing, OSB, 12.5mm
	Sheathing, OSB-3, 9mm
<b>Sheeting/Decking/Finishes - Paint</b>	
	Decoration, one undercoat, 2 coats gloss paint, one surface
	Emulsion paint, 1 face
	Emulsion paint, 2 faces
<b>Sheeting/Decking/Finishes - Plaster</b>	
	Plaster and emulsion paint
	Plaster skim, emulsion paint
	Plaster, lightweight, 13mm, emulsion paint
<b>Sheeting/Decking/Finishes - Plasterboard</b>	
	Decking, Plasterboard, 19mm
	Plasterboard, 10kg/m2, 25mm mineral wool quilt
	Plasterboard, 10kg/m2, 50mm mineral wool quilt
	Plasterboard, 12.5mm
	Plasterboard, 15mm, dabs, emulsion paint
	Plasterboard, 19mm
	Plasterboard, 2 sheets, emulsion paint
	Plasterboard, 21mm, 16 kg/m2 min.
	Plasterboard, 25mm, emulsion paint
	Plasterboard, 2x19mm, emulsion paint
	Plasterboard, acoustic, 15mm
	Plasterboard, battens, emulsion paint
	Plasterboard, dabs, emulsion paint
	Plasterboard, emulsion paint
	Plasterboard, high density, 15mm
	Plasterboard, paint, cold roofs only
	Plasterboard, paint, roofs and upper floors
<b>Sheeting/Decking/Finishes - Plastic</b>	
	PVC internal wall finish 2.5mm, acrylic adhesive
<b>Sheeting/Decking/Finishes - Plywood</b>	
	Decking, Plywood, 15mm min. 600kg/m3 min.
	Decking, Plywood, 20kg/m2 min.
	Plywood (636-1), 18mm
	Plywood (636-1), 18mm, battens
	Plywood (636-2) (70 yrs)
	Plywood (636-2) (80 yrs)
	Plywood (636-2), 18mm, timber joists
	Plywood (636-2), battens, insulation, DPM *

<b>Group</b>	<b>Component Description</b>
	Plywood (636-2), insulation *
	Plywood, 12mm
	Plywood, Internal, 18mm
	Plywood, softwood, sheathing, 9mm
	Sheathing, plywood (softwood), 22mm
<b>Sheeting/Decking/Finishes - Polycarbonate</b>	
	Polycarbonate panel, hardwood studs
<b>Sheeting/Decking/Finishes - Proprietary</b>	
	UPM WISA-SPRUCEFLOOR plywood 18mm
<b>Sheeting/Decking/Finishes - Render</b>	
	Insulated render system, EPS on glass fibre mesh with mortar adhesion
	Polymeric render system, reinforced, pebble dash
	Render, cement lime
	Render, cement, 15mm
	Render, cement, 20mm
	Render, cement, 8mm
	Render, gypsum based internal
	Render, polymer modified cement
	Render, sand/cement, 13mm, plaster skim
	Render, sand/cement, 20mm
	Sand cement render 20mm, flat roof
<b>Sheeting/Decking/Finishes - Steel</b>	
	Steel sheet, enamelled
<b>Sheeting/Decking/Finishes - Terrazzo</b>	
	Terrazzo, cement based tiles
	Terrazzo, resin based tiles (10% resin)
	Terrazzo, resin based tiles (2% resin)
<b>Sheeting/Decking/Finishes - Timber</b>	
	Reclaimed timber boards
	Reclaimed timber floor boards, insulation *
	Tongue and groove boards, softwood, 19mm
<b>Sheeting/Decking/Finishes - Woodfibre board</b>	
	Bitumen impregnated woodfibre board, 12mm
<b>Structurally Insulated Panels - CBPB</b>	
	SIP, cement bonded particleboard, pentane PU insulation
	SIP, cement bonded particleboard, PU insulation (GWP 25)
<b>Structurally Insulated Panels - Insulation only</b>	
	Insulation, PU pentane blown for SIP roof 35 degrees
<b>Structurally Insulated Panels - OSB</b>	
	SIP roof, OSB, timber panel, joists, plasterboard, 35 degrees
	SIP roof, OSB, timber panel, plasterboard, 10 degrees
	SIP, 11mm OSB each side, 140mm insulation *

Group	Component Description
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<b>Structurally Insulated Panels - Plywood</b>
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SIP roof, plywood, timber panel, joists, plasterboard, 35 degrees
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<b>Structurally Insulated Panels - Proprietary</b>
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KINGSPAN TEK structural insulated panel, 175mm total
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UPM WISA-SPRUCE 850 plywood SIP 9mm each side, timber panel, ceiling joists, plasterboard, 35° Pitch
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<b>Structurally Insulated Panels - Steel</b>
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Coated steel liner 0.7mm, clips, mineral wool insulation, Colour coated aluminium standing seam outer 0.9mm
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Organic coated steel standing seam outer sheet, for low pitch SIP
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Organic coated steel standing seam outer sheet, for normal pitch SIP
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Steel & stone wool composite panel 100mm
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<b>Topping - Screed</b>
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Bonded screed, 50mm
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Bonded screed, 65mm
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Proprietary screed, 80kg/m2, polythene sheet
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Resilient screed board for flooring
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Screed to falls for concrete flat roof structure
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Screed, 50mm, insulation
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Screed, cement/sand, 20mm
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Structural topping for beam and eps floors, 65mm
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Structural topping for beam and eps floors, 75mm
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Structural topping, 120mm
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Structural topping, 50mm
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<b>Wall Structure - Aluminium</b>
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Aluminium frame for partitions
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<b>Wall Structure - Block</b>
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Blockwork, aircrete, external leaf, 100mm, cement lime mortar
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Blockwork, aircrete, external leaf, 100mm, cement mortar
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Blockwork, aircrete, external leaf, 100mm, thin joint mortar
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Blockwork, aircrete, external leaf, 140mm, cement mortar
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Blockwork, aircrete, external leaf, 140mm, thin joint mortar
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Blockwork, aircrete, external leaf, 215mm, cement mortar
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Blockwork, aircrete, internal leaf, 100mm, cement lime mortar
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Blockwork, aircrete, internal leaf, 100mm, cement mortar
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Blockwork, aircrete, internal leaf, 100mm, cement mortar, 750kg/m3 min.
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Blockwork, aircrete, internal leaf, 100mm, thin joint mortar
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Blockwork, aircrete, internal leaf, 100mm, thin joint mortar, 750kg/m3 min.
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Blockwork, cellular dense
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Blockwork, cellular dense, internal leaf, 100mm, cement lime mortar
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Blockwork, cellular dense, internal leaf, 100mm, cement mortar
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Blockwork, dense solid, external leaf, 100mm, cement lime mortar
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Blockwork, dense solid, external leaf, 100mm, cement mortar
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Blockwork, dense solid, internal leaf, 100mm, cement lime mortar
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Group	Component Description
	Blockwork, dense solid, internal leaf, 100mm, cement mortar
	Blockwork, dense solid, internal leaf, 140mm, cement mortar
	Blockwork, dense solid, internal leaf, 210mm, cement lime mortar
	Blockwork, dense solid, internal leaf, 210mm, cement mortar
	Blockwork, dense solid, internal leaf, 215mm, cement mortar
	Blockwork, fairfaced solid, external leaf, 100mm, cement lime mortar
	Blockwork, fairfaced solid, external leaf, 100mm, cement mortar
	Blockwork, fairfaced solid, internal leaf, 100mm, cement lime mortar
	Blockwork, fairfaced solid, internal leaf, 100mm, cement mortar
	Blockwork, for separating walls, 100mm, cement mortar
	Blockwork, Hemcrete, 120mm
	Blockwork, lightweight, external leaf, 100mm, cement lime mortar
	Blockwork, lightweight, external leaf, 100mm, cement mortar
	Blockwork, lightweight, external leaf, 140mm, cement lime mortar
	Blockwork, lightweight, external leaf, 140mm, cement mortar
	Blockwork, lightweight, external leaf, 140mm, cement mortar
	Blockwork, lightweight, external leaf, 215mm, cement mortar
	Blockwork, lightweight, internal leaf, 100mm, cement mortar
	Blockwork, medium dense solid, 140mm, cement mortar
	Blockwork, medium dense solid, external leaf, 100mm cement lime mortar
	Blockwork, medium dense solid, external leaf, 100mm, cement mortar
	Blockwork, medium dense solid, external leaf, 140mm, cement lime mortar
	Blockwork, medium dense solid, external leaf, 140mm, cement mortar
	Blockwork, medium dense solid, external leaf, 215mm, cement mortar
	Blockwork, medium dense solid, internal leaf, 100mm, cement mortar
	Blockwork, medium dense solid, internal leaf, 140mm, cement lime mortar
	Blockwork, medium dense solid, internal leaf, 140mm, cement mortar
	Blockwork, proprietary, lightweight, internal leaf, 100mm
	Blockwork, sheild, internal leaf, 100mm, cement mortar
	Blockwork, smoothface, internal leaf, 100mm, cement mortar
	Blockwork, super lightweight solid, external leaf, 100mm, cement lime mortar
	Blockwork, super lightweight solid, external leaf, 100mm, cement mortar
	Blockwork, super lightweight solid, internal leaf, cement lime mortar
	Blockwork, super lightweight solid, internal leaf, cement mortar
	Composite Cement Bonded Recycled Softwood Blocks, insulation, RC30 concrete infill, steel reinforcing bars (horizontal and vertically) *
	Extruded Clay Block, 100mm 950 kg/m <sup>3</sup> , cement mortar
	Hemcrete block, 300mm
<b>Wall Structure - Brick</b>	
	Blockwork, medium dense solid, internal leaf, 100mm, cement lime mortar
	Brickwork, external leaf, 102.5mm, cement lime mortar
	Brickwork, external leaf, 102.5mm, cement mortar
	Brickwork, internal leaf, 102.5mm, cement lime mortar

Group	Component Description
	Brickwork, internal leaf, 102.5mm, cement mortar
	Brickwork, internal leaf, 215mm, cement mortar
	Brickwork, reclaimed, external leaf, 102.5mm, cement mortar
	Brickwork, reclaimed, internal leaf, cement lime mortar
<b>Wall Structure - Fairfaced concrete</b>	
	Fairfaced concrete wall, 100mm
	Fairfaced concrete wall, 100mm, reinforced
	Fairfaced concrete wall, 50mm, reinforced
	Fairfaced reinforced concrete wall, 100mm, 50% GGBS
<b>Wall Structure - Glass</b>	
	Blockwork, glass, 100mm
	Blockwork, glass, 50mm
<b>Wall Structure - ICF</b>	
	Creo ICF system
	ICF, 2x EPS grade 200e, 100mm light steel C studs, 300mm c/c, in situ C30 concrete
	ICF, 2x EPS grade 200e, 100mm light steel studs 300mm c/c, in situ C30 concrete
<b>Wall Structure - In situ concrete</b>	
	In situ concrete, 50mm
	In situ concrete, reinforced, separating wall, 190mm
	In situ concrete, separating wall, 190mm
<b>Wall Structure - Limestone</b>	
	Limestone splitstone outerleaf 100mm
<b>Wall Structure - Natural stone</b>	
	Gabions drystack masonry - Stones inside metal mesh
	Reclaimed stone 100mm, cement mortar 10mm
<b>Wall Structure - Precast concrete</b>	
	Precast concrete internal partition, non-loadbearing, 100mm
	Precast concrete internal wal, non-loadbearing, 75mm
	Precast concrete wall panel, 150mm
	Precast sandwich panel, loadbearing, EPS insulation
	Precast sandwich panel, non-loadbearing, EPS insulation
<b>Wall Structure - Proprietary</b>	
	BEKSTONE reconstituted walling stone 100mm, cement mortar
	BURLINGTON STONE KIRKBY BLUE SLATE 100mm, cement mortar
	HOESCH CORRUGATED 1mm (organic coated steel), HD polyethylene breather membrane, insulation, steel support *
	HOESCH ISOROCK 150mm (organic coated steel outer & inner, mineral wool insulation), steel frame
	HOESCH ISOROCK 150mm (organic coated steel outer & inner, mineral wool insulation), steel supports
	HOESCH ISOROCK AKUSTIC 150mm sandwich panel partition (mineral wool)
	HOESCH ISOROCK VARIO 200mm (organic coated steel outer & inner, mineral wool insulation), steel frame
	HOESCH ISOROCK VARIO 200mm (organic coated steel outer & inner, mineral wool insulation), steel supports
	HOESCH ISOWAND INTEGRAL 140mm (organic coated steel outer & inner, PU insulation), steel frame
	HOESCH ISOWAND INTEGRAL 140mm (organic coated steel outer & inner, PU insulation), steel supports

Group	Component Description
	HOESCH ISOWAND VARIO 140mm (organic coated steel outer & inner, PU insulation), steel frame
	HOESCH ISOWELLE 104mm (organic coated steel outer & inner, PU insulation), steel frame
	HOESCH ISOWELLE 104mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH LINER TRAY/LINER TRAY AKUSTIC 1.5mm (organic coated steel), HD polyethylene breather membrane, insulation, steel support *
	HOESCH MATRIX 160mm (organic coated steel outer & inner, mineral wool insulation), steel supports
	HOESCH PLANEEL SIDING FAÇADE 1mm (organic coated steel), HD polyethylene breather membrane, insulation, steel support *
	HOESCH THERMOWAND TL 129mm (organic coated steel outer & inner, PU insulation), steel frame
	HOESCH THERMOWAND TL 129mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH THERMOWAND/THERMOWAND 1000 120mm (organic coated steel outer & inner, PU insulation), steel frame
	HOESCH THERMOWAND/THERMOWAND 1000 120mm (organic coated steel outer & inner, PU insulation), steel supports
	HOESCH TRAPEZOIDAL/TRAPEZOIDAL AKUSTIC 1.5mm (organic coated steel), HD polyethylene breather membrane, insulation, steel support *
	KINGSPAN KS 1000 RW Wall Panel 70mm, ECOSAFE insulation core
	KINGSPAN KS600 AWP wall panel 70mm, ECOSAFE insulation core
<b>Wall Structure - Reinforced concrete</b>	
	Fibre reinforced concrete panel, non-loadbearing, 110mm
<b>Wall Structure - Steel</b>	
	Light steel structure for external loadbearing wall
<b>Wall Structure - Timber</b>	
	Laminated Timber 120mm
	Laminated Timber 95mm
	Timber cassette internal wall panel, plywood, plasterboard