

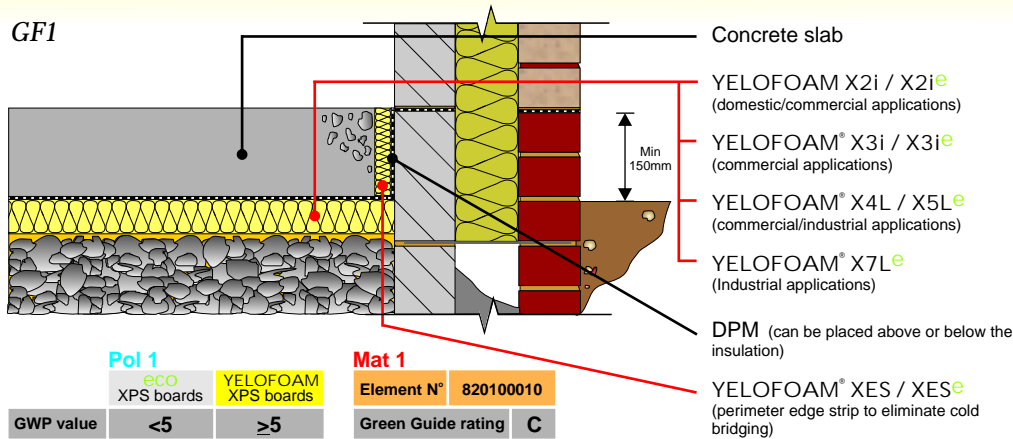
	X2i X2i <sup>e</sup>	X3i X3i <sup>e</sup>	X4L <sup>(A)</sup> X5L <sup>(B)</sup>	X7L <sup>e</sup>
10% Value (BS EN 826)	<40mm 250 kPa >50mm 300 kPa	350 kPa	470 kPa <sup>(A)</sup> 500 kPa <sup>(B)</sup>	700 kPa <sup>(B)</sup>
2% Design load (BS EN 1606)	<40mm 80 kPa >50mm 100 kPa	100 kPa	180 kPa	250 kPa
Typical flooring application	Domestic & Commercial	Commercial	Commercial & Industrial	Industrial

Note: For XPERI, XCHIP, TETRIS and XCPL compressive strength data refer to pages 22 to 25.

# Floor insulation: Ground bearing slab

## Ground Bearing Concrete Floor Slab

Insulation installed below the concrete slab



P/A ratio	Typical thickness of X3i req'd (mm)				
	0.7	75	90	100	140
0.6	70	90	100	120	160
0.5	65	80	90	120	140
0.4	60	70	90	100	140
0.3	50	60	75	90	120
	0.25	0.22	0.20	0.18	0.16

**U-value (W/m<sup>2</sup>K)**  
Calculated in accordance with ISO 13370

GWP value	Pol 1	
	eco XPS boards	YELOFOAM XPS boards
	<5	≥5
Code credits	1	0

Note: Pol.1 Code credits have an approximate weighted value of 0.7

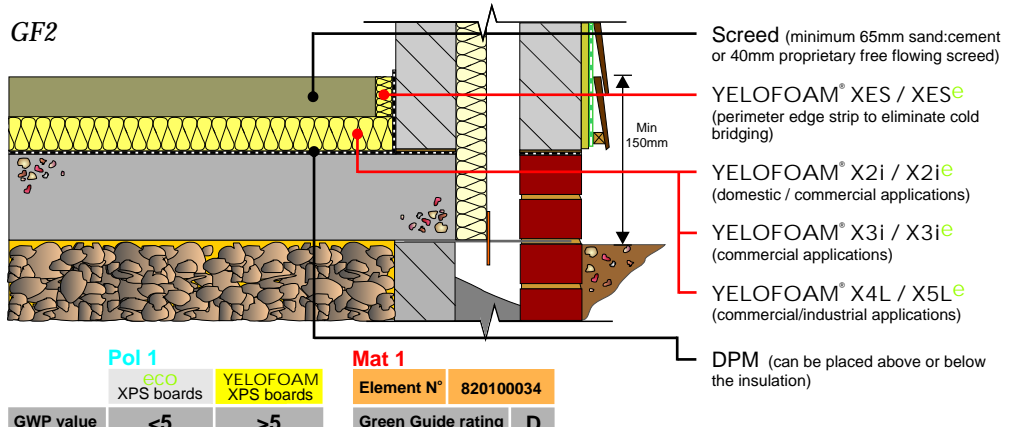
Green Guide rating	Mat 1	
	Element N°	820100010
	C	
Code credits	0.5	

Note: Mat.1 Code credits have an approximate weighted value of 0.3

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## Ground Bearing Concrete Floor Slab

Insulation installed below floating screed



P/A ratio	Typical thickness of X2i req'd (mm)				
	0.7	75	90	100	140
0.6	70	90	100	120	160
0.5	65	80	90	120	140
0.4	60	70	90	100	140
0.3	50	60	75	90	120
	0.25	0.22	0.20	0.18	0.16

**U-value (W/m<sup>2</sup>K)**  
Calculated in accordance with ISO 13370

GWP value	Pol 1	
	eco XPS boards	YELOFOAM XPS boards
	<5	≥5
Code credits	1	0

Note: Pol.1 Code credits have an approximate weighted value of 0.7

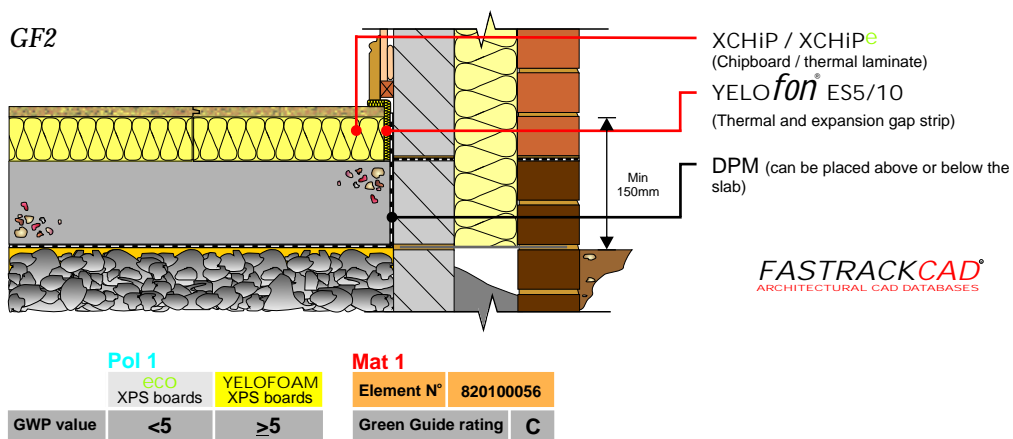
Green Guide rating	Mat 1	
	Element N°	820100034
	D	
Code credits	0.25	

Note: Mat.1 Code credits have an approximate weighted value of 0.3

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## Ground Bearing Concrete Floor Slab

Chipboard / thermal laminate floor board



P/A ratio	Typical thickness of XCHIP req'd (mm)				
	0.7	108	138	138	158
0.6	98	118	138	158	178
0.5	98	118	138	158	178
0.4	78	98	118	138	158
0.3	68	88	98	118	138
	0.25	0.22	0.20	0.18	0.16

**U-value (W/m<sup>2</sup>K)**  
Calculated in accordance with ISO 13370

GWP value	Pol 1	
	eco XPS boards	YELOFOAM XPS boards
	<5	≥5
Code credits	1	0

Note: Pol.1 Code credits have an approximate weighted value of 0.7

Green Guide rating	Mat 1	
	Element N°	820100056
	C	
Code credits	0.5	

Note: Mat.1 Code credits have an approximate weighted value of 0.3

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	X2i X2i <sup>e</sup>	X3i X3i <sup>e</sup>	X4L <sup>(A)</sup> X5L <sup>(B)</sup>	X7L <sup>e</sup>
10% Value (BS EN 826)	≤40mm 250 kPa ≥50mm 300 kPa	350 kPa	470 kPa <sup>(H)</sup> 500 kPa <sup>(M)</sup>	700 kPa <sup>(M)</sup>
2% Design load (BS EN 1606)	≤40mm 80 kPa ≥50mm 100 kPa	100 kPa	180 kPa	250 kPa
Typical flooring application	Domestic & Commercial	Commercial	Commercial & Industrial	Industrial

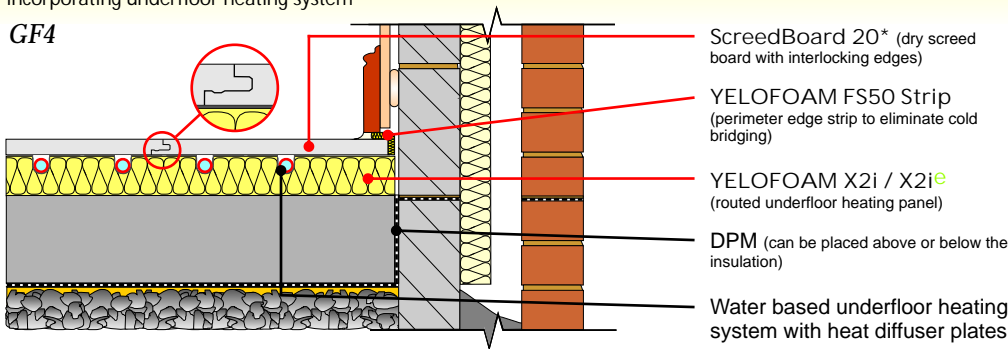
Note: For XPERI, XCHIP, TETRIS and XCPL compressive strength data refer to pages 22 to 25.

# Floor insulation: Ground bearing slab

## Ground Bearing Concrete Floor Slab

Insulation installed below ScreedBoard 20 incorporating underfloor heating system

GF4



P/A ratio	Typical thickness of X2i req'd (mm)				
	75	90	100	140	160
0.7	75	90	100	140	160
0.6	70	90	100	120	160
0.5	65	80	90	120	140
0.4	60	70	90	100	140
0.3	50	60	75	90	120
	0.25	0.22	0.20	0.18	0.16

GWP value	Pol 1	
	eco XPS boards	YELOFOAM XPS boards
	<5	≥5
Code credits	1	0

Note: Pol.1 Code credits have an approximate weighted value of 0.7

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U-value (W/m<sup>2</sup>K)

Calculated in accordance with ISO 13370

\*Thermal conductivity of ScreedBoard: 0.50W/m<sup>2</sup>K

ScreedBoard 20 key features:

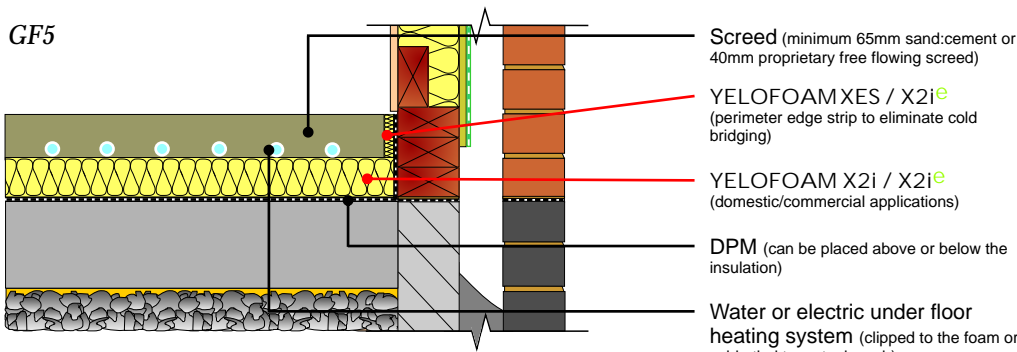
- Grey screed like finish
- Only 20mm thick
- Able to accept ceramic tiles
- Interlocking edge detail - no screws req'd
- Very high impact resistance
- Weighs only 18.00kg per board (0.72m<sup>2</sup>)
- No need to employ a specialist contractor
- Quick and easy to install

For further information on ScreedBoard 20 contact Collecta's technical office on 08456 71-71-74

## Ground Bearing Concrete Floor Slab

Insulation installed below floating screed incorporating underfloor heating system

GF5



P/A ratio	Typical thickness of X2i req'd (mm)				
	75	90	100	140	160
0.7	75	90	100	140	160
0.6	70	90	100	120	160
0.5	65	80	90	120	140
0.4	60	70	90	100	140
0.3	50	60	75	90	120
	0.25	0.22	0.20	0.18	0.16

GWP value	Pol 1		Element N°	Green Guide rating	Code credits
	eco XPS boards	YELOFOAM XPS boards			
	<5	≥5	820100034	D	0.25
Code credits	1	0			

Note: Pol.1 Code credits have an approximate weighted value of 0.7

Mat 1

Element N° 820100034  
Green Guide rating D  
Code credits 0.25

Note: Mat 1 Code credits have an approximate weighted value of 0.3

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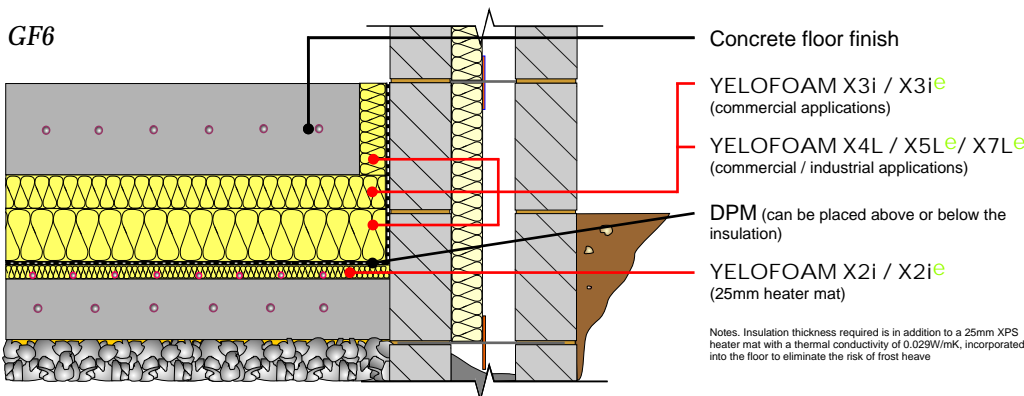
U-value (W/m<sup>2</sup>K)

Calculated in accordance with ISO 13370

## Cold Store - Load bearing Ground Floor Slab

Insulation installed below floating concrete floor slab

GF6



P/A ratio	Typical thickness of X3i req'd (mm)				
	50	75	75	90	120
0.7	50	75	75	90	120
0.6	50	60	75	90	120
0.5	40	60	75	80	100
0.4	40	50	60	75	90
0.3	30	40	50	60	80
	0.25	0.22	0.20	0.18	0.16

Notes: Insulation thickness required is in addition to a 25mm XPS heater mat with a thermal conductivity of 0.029W/mK, incorporated into the floor to eliminate the risk of frost heave

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U-value (W/m<sup>2</sup>K)

Calculated in accordance with ISO 13370