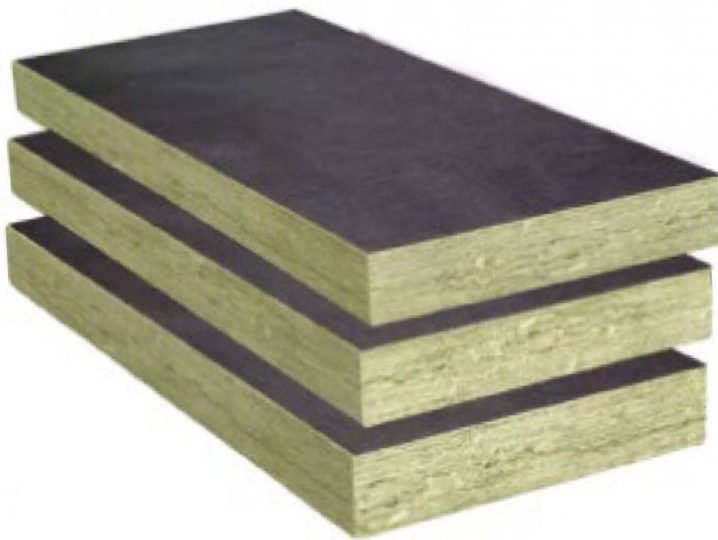


# Technical Datasheet

**URSA – RAINSCREEN SLAB**



## PRODUCT DESCRIPTION

URSA WALLTEC 32 and URSAPAN 35 for use in Rainscreen Cladding Systems are mineral wool (MW) slabs with a black glass tissue facer on one face. The slabs are totally non-combustible, Euroclass A1. The class leading performance URSA WALLTEC 32, thermal conductivity 0.032 W/mK, provides a continuous envelope of insulation around the building. Alternatively, URSAPAN 35 thermal conductivity 0.035 W/mK, may be used.



### FIXINGS

- [Insulation fixings](#)
- [Insulation discs](#)

## FEATURES

- ✓ Larger slabs mean fewer boards to install, saving money and labour time
- ✓ Non-combustible A1 rated
- ✓ Slabs are rot-proof, durable and maintenance free
- ✓ BBA Certified Certificate 20/5832
- ✓ The mineral wool is manufactured from an abundant, sustainable resource and utilises at least 50% recycled material
- ✓ No chemical blowing agents so, the Global Warming Potential (GWP) arising from them is zero

## APPLICATIONS

- Domestic & non-domestic building without height restrictions in conjunction with cladding systems
- Insulation for use on new & existing timber-frame, steel frame or masonry walls

## TECHNICAL DATA

**URSA WALLTEC 32 and URSAPAN 35** slabs are for use behind rainscreen cladding systems and brick (or block) external cladding. Larger slab size means fewer slabs to install and less fixings required.

BBA Certificate 20/5832.

Manufactured to BS EN 13162, BS EN ISO 9001 & BS EN ISO 14001.

BRE Green Guide Rating A+

### URSA WALLTEC 32

Nominal density 32 kg/m<sup>3</sup>

Thermal conductivity 0.032 W/mK

R-value (m <sup>2</sup> K/W)	Thickness mm	Length mm	Width mm	Slabs/ pack	m <sup>2</sup> /pack
2.50	80	1350	600	7	5.67
3.10	100	1350	600	6	4.86
3.75	120	1350	600	5	4.05
4.35	140	1350	600	4	3.24
4.65	150	1350	600	4	3.24
5.00	160	1350	600	3	2.43
5.60	180	1350	600	3	2.43
6.25	200	1350	600	3	2.43
6.85	220	1350	600	3	2.43

### URSAPAN 35

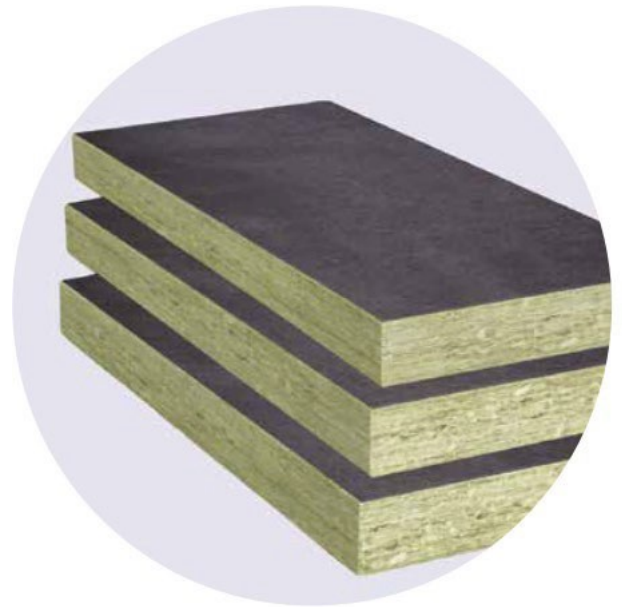
Nominal density 22 kg/m<sup>3</sup>

Thermal conductivity 0.035 W/mK

R-value (m <sup>2</sup> K/W)	Thickness mm	Length mm	Width mm	Slabs/ pack	m <sup>2</sup> /pack
2.85	100	1350	600	7	5.67
3.40	120	1350	600	6	4.86
4.00	140	1350	600	5	4.05
4.55	160	1350	600	4	3.24
5.10	180	1350	600	4	3.24
5.70	200	1350	600	3	2.43

### **Durability**

When correctly installed URSA mineral wool products are maintenance free and have an indefinite life at least equal to that of the building.



### **Storage**

URSA mineral wool products are supplied wrapped in polythene to provide short-term protection. On site the products should be stored clear of the ground, on a clean level surface and preferably under cover to protect them from prolonged exposure to moisture or mechanical damage

### **Chemical Compatibility**

URSA mineral wool products are compatible with all common construction materials, alkalis, dilute acids, mineral oil and petrol. Products that have been in contact with harsh solvents, acids or saturated with water should not be used.

### **Health & Safety**

URSA mineral wool products are inherently safe to handle. During cutting or handling any dust generated is of nuisance value only; the wearing of dust masks, gloves and long-sleeved clothing is recommended. Large scale machining should be connected to a dust extraction system.

## KEY FACTORS ASSESSED

### Thermal Performance

The declared thermal conductivity for the URSA WALLTEC 32 and the URSAPAN 35 is  $0.032$  and  $0.035 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$  respectively

### Condensation Risk

The products can contribute to limiting the risk of condensation

### Behaviour in the relation to fire

The products are classified as Class A1 in accordance with BS EN 13501-1 : 2018

### Durability

The products will have a life equivalent to that of the wall structure in which they are incorporated



## HEAT LOSS CALCULATIONS

### Rainscreen Cladding

#### Typical Construction – Concrete Wall

Cladding panel/ventilated cavity

**URSA WALLTEC 32 / URSAPAN 35**

150mm concrete

12.5mm plasterboard on dabs

Correction for brackets based on point thermal transmittance of 0.045 W/K and 2 brackets/m<sup>2</sup>

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.36	0.39
120	0.32	0.34
140	0.29	0.31
160	0.27	0.29
180	0.25	0.27
200	0.24	0.25
220	0.23	0.24

#### Typical Construction – Timber Framed Wall

Cladding panel/ventilated cavity **URSA**

**WALLTEC 32 / URSAPAN 35**

Breather membrane

9mm OSB/plywood sheathing

**140mm URSA Timber Frame Roll 35** (15% bridged proportion)

Air & vapour control layer - 12.5mm plasterboard

Correction for brackets based on point thermal transmittance of 0.010 W/K and 2 brackets/m<sup>2</sup>

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.17	0.18
120	0.16	0.16
140	0.15	0.15
160	0.14	0.14
180	0.13	0.14
200	0.12	0.13
220	0.12	0.12

**Typical Construction – Light Steel Stud Framed Wall**  
 Cladding panel/ventilated cavity  
**URSA WALLTEC 32 / URSAPAN 35**  
 10mm fibre reinforced cement sheet sheathing

**150mm URSA Hometec Roll 35** (between studs) Air & vapour control layer – 2 x 12.5mm plasterboard  
 Correction for brackets based on point thermal transmittance of 0.022 W/K and 2 brackets/m<sup>2</sup>

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.36	0.39
120	0.32	0.34
140	0.29	0.31
160	0.27	0.29
180	0.25	0.27
200	0.24	0.25
220	0.23	0.24

**Brick Outer Leaf**  
**Typical Construction – Concrete Wall**  
 103mm brick/50mm cavity **URSA WALLTEC 32 / URSAPAN 35** 150mm concrete

12.5mm plasterboard on dabs

Correction for restraint channel fixings based on fixings with cross sections area of 24 mm<sup>2</sup>, thermal conductivity 17 W/mK and at 4.9 fixings/m<sup>2</sup>

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.27	0.29
120	0.23	0.29
140	0.20	0.29
160	0.18	0.29
180	0.16	0.29
200	0.15	0.29
220	0.14	0.29

**Typical Construction – TimberStud Framed Wall**

103mm brick/50mm cavity

**URSA WALLTEC 32 / URSAPAN 35**

Breather membrane

9mm OSB/plywood sheathing

**140mm URSA Timber Frame Roll 35** (15% bridged proportion)

Air & vapour control layer - 12.5mm plasterboard

Correction for restraint channel fixings based on fixings with cross sections area of 24 mm<sup>2</sup>, thermal conductivity 17 W/mK and at 4.9 fixings/m<sup>2</sup>.

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.15	0.15
120	0.13	0.14
140	0.12	0.13
160	0.11	0.12
180	0.11	0.11
200	0.10	0.11
220	0.09	0.10

**Typical Construction – Light Steel Stud Framed Wall**

103mm brick/50mm cavity

**URSA WALLTEC 32 / URSAPAN 35**

10mm fibre reinforced cement sheet sheathing

**150mm URSA Hometec Roll 35** (between studs) Air & vapour control layer – 2 x 12.5mm plasterboard

Correction for restraint channel fixings based on fixings with cross sections area of 24 mm<sup>2</sup>, thermal conductivity 17 W/mK and at 4.9 fixings/m<sup>2</sup>

Thickness (mm)	U-Value (W/m <sup>2</sup> K)	
	URSA WALLTEC 32	URSAPAN 35
100	0.16	0.17
120	0.15	0.15
140	0.13	0.14
160	0.12	0.13
180	0.11	0.12
200	0.11	0.11
220	0.10	0.11



## INSTALLATION

- 1 Timber and metal stud framed walls should include a suitable air and vapor control layer on the inner surface behind the plasterboard. Timber frame walls should also include a breather membrane external to the sheathing.
- 2 The cladding system brackets are fixed to the main structural wall in accordance with the manufacturer's instructions.
- 3 Fix the **URSA WALLTEC 32 / URSAPAN 35** slabs to the wall in a staggered pattern, black face outermost. Installation may start below DPC level to help insulate the edge of the floor slab. The slabs may be fitted in either landscape or portrait format. Ensure all joints are tightly butted together and that the slabs are cut accurately and tightly around the brackets ensuring that there are no gaps. Leaving the slabs cut slightly oversize ensures that the fibres will 'knit' together. The slabs cut easily with the use of a sharp knife.
- 4 The **URSA WALLTEC 32 / URSAPAN 35** slabs are mechanically fixed to the wall using suitable insulation retaining fixings (with a minimum head diameter of 70mm) depending upon the substrate. A typical fixing pattern is three fixings along the centre line of the slab – the central fixing in each slab must be metal rather than plastic. Alternatively use a plastic fixing at the corner of each slab with a with a metal fixing at the centre. Do not overdrive the fixings.
- 5 Certifix **URSA WALLTEC 32 / URSAPAN 35** slabs may be installed in two or more layers if a particularly low U-value is required. Install the first layer of slabs with one mechanical fixing per board. Ensure the position of this fixing does not interfere with the final fixing pattern for the slabs. Install the second layer of slabs, with staggered joints.
- 6 Ensure that cavity barriers are installed in accordance with the Building Regulations. In high rise this would include at every compartment floor level and at the top of the cavity. Ensure external openings are correctly sealed also.
- 7 Certifix **URSA WALLTEC 32 / URSAPAN 35** is robust enough to be left exposed and will withstand short term, intermittent wetting. If prolonged bad weather (rain, snow, high wind, freezing conditions) is predicted fit only sufficient slabs that can be covered and protected by the cladding on the same day; otherwise provide temporary weather protection.
- 8 Once the insulation is fitted the external cladding work may proceed in accordance with the manufacturer's instructions.