

EVOLUTION IDRO type SMOOTH

480 kg/m³
0,110 W/mK

Certifications:



EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, hydrophobic in bulk, industrially produced, suitable for the construction of both external and internal not load-bearing masonries, also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.					
	Manufacturing dimensions	mm	W 80/200	L 600	H 125	
	Tolerance category TLMA	mm	± 2	± 3	± 2	

Technical data

	Description	UdM	symbol	80	100	120	150	200		
Dimensions	Block width	mm	W							
Dry density	kg/m ³			480 ± 50						
Dry block's weight	kg	± 5%		2,90	3,60	4,30	5,40	7,20		
Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$		0,06						
Mean compressive strength ¹⁾	N/mm ²	$f_m >$	3,1 categ. I	3,3 categ. I		3,5 categ. I	3,8 categ. I			
Characteristic compressive strength ¹⁾	N/mm ²	$f_{bk} \geq$	2,1 categ. I	2,2 categ. I		2,4 categ. I	2,6 categ. I			
Characteristic compressive strength orthogonal ²⁾	N/mm ²	$\overline{f}_{bk} \geq$	3,3 categ. I							
Normalized compressive strength	N/mm ²	$f_b \geq$	4,8 categ. I							
Reaction to fire	Euroclass		A1							
Fire resistance			El 120	El 180						
Mean density masonry ⁴⁾	kg/m ³	Gm		600 ± 60						
Characteristic flexural strength adhesion	N/mm ²	f_{xk1}/f_{xk2}		0,15/0,30						
Mechanical characteristics block	Mean compressive strength	N/mm ²	f_m	1,7						
masonry ³⁾	Characteristic compressive strength	N/mm ²	f_k	1,2						
Mean initial shear strength	N/mm ²	f_{vm}		0,14						
Characteristic initial shear strength (τ_0 in N/cm ²)	N/mm ²	f_{vko}		0,10						
Poisson coefficient	N/mm ²	ν		1						
Modulus of normal secant elasticity	N/mm ²	E		1726						
Shear modulus	N/mm ²	G		690						
Thermo-hygrometric characteristics	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$	0,110						
Measured according to the standard EN 12667										
Stationary thermal transmittance ⁵⁾	W/m ² K	U	1,114	0,927	0,793	0,652	1,114			
Periodic thermal transmittance ⁶⁾	W/m ² K	Y_{IE}	1,602	0,839	0,666	0,467	1,602			
Phase shift	h	S	1h 49'	2h 37'	3h 31'	4h 57'	1h 49'			
Attenuation factor		f_a	0,953	0,906	0,840	0,715	0,953			
Internal thermal capacity	kJ/m ² K	C	16,51	20,09	22,84	25,22	16,51			
Specific heat	kJ/kgK	c	1,0							
Water vapour diffusion resistance factor		μ	5 (wet-cup) – 10 (dry-cup)							
Water vapour permeability	kg/msPa	δ_a	32 × 10 ⁻¹²							
Acoustics	Superficial mass with plaster and mortars ⁷⁾	kg/m ²	M_s	71	81	91	105	71		
	Weighted sound reduction index ⁸⁾	dB	R_w	38	40	41	43	38		

Note:

- In the direction orthogonal (⊥) to the face L x W that is in the vertical direction.
- In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.
- Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.
- Weight to be used for structural calculations (includes residual humidity in steady state).
- Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

EVOLUTION IDRO type SMOOTH

480 kg/m³
0,110 W/mK

Certifications:



EN 771-4 category I

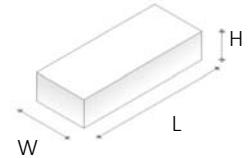


UNI EN ISO 9001

ICMQ Certificazione sistema qualità

Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, hydrophobic in bulk, industrially produced, suitable for the construction of both external and internal masonries, load-bearing in low- seismic areas and not load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.						
	W L H						
	Manufacturing dimensions mm 240/500 600 125						
	Tolerance category TLMA mm ± 2 ± 3 ± 2						



Technical data

	Description	UdM	symbol	240	300	350	375	400	450	500	
Dimensions	Block width	mm	W	240	300	350	375	400	450	500	
Mechanical - physical characteristics block	Dry density	kg/m ³		480 ± 50							
	Dry block's weight	kg	± 5%	8,65	10,80	12,60	13,50	14,40	16,20	18,00	
	Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$	0,06							
	Mean compressive strength ¹⁾	N/mm ²	$f_m >$	3,8 categ. I	4,1 categ. I						
	Characteristic compressive strength ¹⁾	N/mm ²	$f_{bk} \geq$	2,6 categ. I	2,8 categ. I						
	Characteristic compressive strength orthogonal ²⁾	N/mm ²	$\bar{f}_{bk} \geq$	3,3 categ. I							
	Normalized compressive strength	N/mm ²	$f_b \geq$	4,8 categ. I							
	Reaction to fire	Euroclass		A1							
	Fire resistance			EI 240 – REI 180		EI 240 – REI 240					
Mechanical characteristics masonry ³⁾	Mean density masonry ⁴⁾	kg/m ³	Gm	600 ± 60							
	Characteristic flexural strength adhesion	N/mm ²	f_{xk1}/f_{xk2}	0,15/0,30							
	Mean compressive strength	N/mm ²	f_m	1,7							
	Characteristic compressive strength	N/mm ²	f_k	1,2							
	Mean initial shear strength	N/mm ²	f_{vm}	0,14							
	Characteristic initial shear strength (τ_0 in N/cm ²)	N/mm ²	f_{vko}	0,10							
	Poisson coefficient	N/mm ²	ν	1							
	Modulus of normal secant elasticity	N/mm ²	E	1726							
	Shear modulus	N/mm ²	G	690							
Thermo - hygrometric characteristics	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$	0,110							
	Measured according to the standard EN 12667										
	Stationary thermal transmittance ⁵⁾	W/m ² K	U	0,425	0,345	0,298	0,279	0,263	0,235	0,212	
	Periodic thermal transmittance ⁶⁾	W/m ² K	Y_{IE}	0,151	0,071	0,038	0,028	0,020	0,011	0,006	
	Phase shift	h	S	9h 20'	12h13'	14h37'	15h49'	17h1'	19h26'	21h50'	
	Attenuation factor		f_a	0,356	0,206	0,127	0,099	0,077	0,046	0,027	
	Internal thermal capacity	kJ/m ² K	C	24,73	23,33	22,70	22,55	22,47	22,45	22,49	
	Specific heat	kJ/kgK	c	1,0							
	Water vapour diffusion resistance factor		μ	5 (wet-cup) – 10 (dry-cup)							
	Water vapour permeability	kg/msPa	δ_a	32 × 10 ⁻¹²							
Acoustics	Superficial mass with plaster and mortars ⁷⁾	kg/m ²	M_s	148	177	201	213	225	249	273	
	Weighted sound reduction index ⁸⁾	dB	R_w	48	50	52	53	54	55		

Note:

1) In the direction orthogonal (⊥) to the face L x W that is in the vertical direction.

2) In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

ACTIVE type SMOOTH FOR THERMAL BRIDGES

300 kg/m³
0,070 W/mK

Certifications:

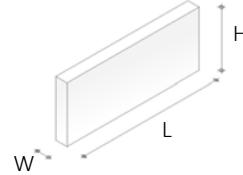


EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, industrially produced, usable as a component for thermal insulation of thermal bridges, to be plastered.		
	Element of Group 1 according to the EN 1996-1-1.		
	W	L	H
Manufacturing dimensions	mm 50/100	600	250
Tolerance category TLMA	mm ± 2	± 3	± 2



Technical data

	Description	UdM	symbol		
Block width		mm	W	50	100
Dry density	kg/m ³			300 ± 50	
Dry block's weight	kg	± 5%		2,25	4,50
Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$		0,06	
Mean compressive strength ¹⁾	N/mm ²	$f_m >$		1,3 categ. I	1,4 categ. I
Characteristic compressive strength ¹⁾	N/mm ²	$f_{bk} \geq$		1,1 categ. I	1,2 categ. I
Characteristic compressive strength orthogonal ²⁾	N/mm ²	$\overline{f}_{bk} \geq$		1,4 categ. I	
Normalized compressive strength	N/mm ²	$f_b \geq$		2,0 categ. I	
Reaction to fire	Euroclass			A1	
Fire resistance				-	
Mean density masonry ⁴⁾	kg/m ³	Gm		400 ± 50	
Characteristic flexural strength adhesion	N/mm ²	f_{xk1}/f_{xk2}			
Mean compressive strength	N/mm ²	f_m			
Characteristic compressive strength	N/mm ²	f_k			
Mean initial shear strength	N/mm ²	f_{vm}			
Characteristic initial shear strength (τ_0 in N/cm ²)	N/mm ²	f_{vko}			
Poisson coefficient	N/mm ²	ν			
Modulus of normal secant elasticity	N/mm ²	E			
Shear modulus	N/mm ²	G			
Dry thermal conductivity	W/mK	$\lambda_{10,dry}$		0,070	
Measured according to the standard EN 12667					
Stationary thermal transmittance ⁵⁾	W/m ² K	U		1,131	0,626
Periodic thermal transmittance ⁶⁾	W/m ² K	Y_{IE}		1,122	0,578
Phase shift	h	S		0h 43'	2h 22'
Attenuation factor		f_a		0,933	0,925
Internal thermal capacity	kJ/m ² K	C		6,69	13,19
Specific heat	kJ/kgK	c		1,0	
Water vapour diffusion resistance factor		μ		5 (wet-cup) – 10 (dry-cup)	
Water vapour permeability	kg/msPa	δ_a		32 × 10 ⁻¹²	
Superficial mass with plaster and mortars ⁷⁾	kg/m ²	M_s		48	63
Weighted sound reduction index ⁸⁾	dB	R_w		32	36

Note:

1) In the direction orthogonal (⊥) to the face L x W that is in the vertical direction.

2) In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

ACTIVE type SMOOTH

300 kg/m³
0,070 W/mK

Certifications:

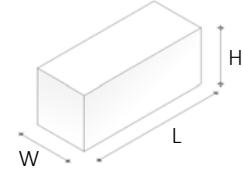


EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, industrially produced, suitable for the construction of both external and internal masonries, not load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.								
		W L H							
Manufacturing dimensions		<i>mm</i>	240/500	600	250				
Tolerance category TLMA		<i>mm</i>	± 2	± 3	± 2				



Technical data

	Description	<i>UdM</i>	<i>symbol</i>	240	300	350	375	400	450	500			
Dimensions	Block width	<i>mm</i>	<i>W</i>	240	300	350	375	400	450	500			
Mechanical – physical characteristics block	Dry density	<i>kg/m³</i>		300 ± 50									
	Dry block's weight	<i>kg</i>	± 5%	10,80	13,50	15,75	16,90	18,00	20,25	22,50			
	Dimensional stability for humidity	<i>mm/m</i>	$\epsilon_{cs,ref} \leq$	0,06									
	Mean compressive strength ¹⁾	<i>N/mm²</i>	$f_m >$	1,6 categ. I	1,8 categ. I								
	Characteristic compressive strength ¹⁾	<i>N/mm²</i>	$f_{bk} \geq$	1,4 categ. I	1,5 categ. I								
	Characteristic compressive strength orthogonal ²⁾	<i>N/mm²</i>	$\bar{f}_{bk} \geq$	1,4 categ. I									
	Normalized compressive strength	<i>N/mm²</i>	$f_b \geq$	2,0 categ. I									
	Reaction to fire	Euroclass			A1								
	Fire resistance				EI240								
	Mean density masonry ⁴⁾	<i>kg/m³</i>	<i>Gm</i>	400 ± 50									
Mechanical characteristics masonry ³⁾	Characteristic flexural strength adhesion	<i>N/mm²</i>	f_{xk1}/f_{xk2}										
	Mean compressive strength	<i>N/mm²</i>	<i>f_m</i>										
	Characteristic compressive strength	<i>N/mm²</i>	<i>f_k</i>										
	Mean initial shear strength	<i>N/mm²</i>	<i>f_{vm}</i>										
	Characteristic initial shear strength (τ_0 in N/cm ²)	<i>N/mm²</i>	<i>f_{vko}</i>										
	Poisson coefficient	<i>N/mm²</i>	<i>v</i>										
	Modulus of normal secant elasticity	<i>N/mm²</i>	<i>E</i>										
	Shear modulus	<i>N/mm²</i>	<i>G</i>										
	Dry thermal conductivity	<i>W/mK</i>	$\lambda_{10,dry}$	0,070									
	Measured according to the standard EN 12667												
Thermo-hygrometric characteristics	Stationary thermal transmittance ⁵⁾	<i>W/m²K</i>	<i>U</i>	0,278	0,224	0,193	0,181	0,170	0,152	0,137			
	Periodic thermal transmittance ⁶⁾	<i>W/m²K</i>	<i>Y_{IE}</i>	0,107	0,050	0,027	0,020	0,014	0,008	0,004			
	Phase shift	<i>h</i>	<i>S</i>	8h 58'	11h 49'	14h 12'	15h 24'	16h 35'	18h 58'	21h 22'			
	Attenuation factor			<i>f_a</i>	0,384	0,225	0,140	0,109	0,085	0,051	0,030		
	Internal thermal capacity	<i>kJ/m²K</i>	<i>C</i>	16,70	15,75	15,29	15,18	15,12	15,10	15,12			
	Specific heat	<i>kJ/kgK</i>	<i>c</i>	1,0									
	Water vapour diffusion resistance factor			<i>μ</i>	5 (wet-cup) – 10 (dry-cup)								
	Water vapour permeability	<i>kg/msPa</i>	<i>δ_a</i>	32 × 10 ⁻¹²									
	Superficial mass with plaster and mortars ⁷⁾	<i>kg/m²</i>	<i>M_s</i>	105	123	138	146	153	168	183			
	Weighted sound reduction index ⁸⁾	<i>dB</i>	<i>R_w</i>	43	46	47	48	49	50	51			

Note:

1) In the direction orthogonal (\perp) to the face $L \times W$ that is in the vertical direction.

2) In the direction orthogonal (\perp) to the face $L \times H$ that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

ACTIVE type TONGUE AND GROOVE

300 kg/m³
0,070 W/mK

Certifications:



EN 771-4 category I



UNI EN ISO 9001

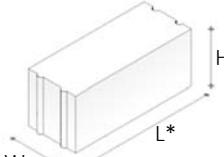


ICMQ
Certificazione
sistema qualità

UNI EN ISO 9001

Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, with male/female vertical joints, industrially produced, suitable for the construction of both external and internal masonries, not load-bearing also in high-seismic areas, to be plastered.				
	Element of Group 1 according to the EN 1996-1-1.				
		W	L*	H	
Manufacturing dimensions	mm	240/500	600	250	
Tolerance category TLMA	mm	± 2	± 3	± 2	* The length "L*" includes the protrusion of the tongue



Technical data

	Description	UdM	symbol	240	300	350	400	450	500
Dimensions	Block width	mm	W	240	300	350	400	450	500
Mechanical - physical characteristics block	Dry density	kg/m ³				300 ± 50			
	Dry block's weight	kg	± 5%	10,60	13,25	15,50	17,70	19,90	22,15
	Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$			0,06			
	Mean compressive strength ¹⁾	N/mm ²	$f_m >$	1,6 categ. I			1,8 categ. I		
	Characteristic compressive strength ¹⁾	N/mm ²	$f_{bk} \geq$	1,4 categ. I			1,5 categ. I		
	Characteristic compressive strength orthogonal ²⁾	N/mm ²	$\bar{f}_{bk} \geq$			1,4 categ. I			
	Normalized compressive strength	N/mm ²	$f_b \geq$			2,0 categ. I			
Mechanical characteristics masonry ³⁾	Reaction to fire	Euroclass				A1			
	Fire resistance					EI240			
	Mean density masonry ⁴⁾	kg/m ³	Gm			400 ± 50			
	Characteristic flexural strength adhesion	N/mm ²	f_{xk1}/f_{xk2}						
	Mean compressive strength	N/mm ²	f_m						
	Characteristic compressive strength	N/mm ²	f_k						
	Mean initial shear strength	N/mm ²	f_{vm}						
	Characteristic initial shear strength (t_0 in N/cm ²)	N/mm ²	f_{vko}						
	Poisson coefficient	N/mm ²	ν						
	Modulus of normal secant elasticity	N/mm ²	E						
	Shear modulus	N/mm ²	G						
Thermo - hygrometric characteristics	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$			0,070			
	Measured according to the standard EN 12667								
	Stationary thermal transmittance ⁵⁾	W/m ² K	U	0,278	0,224	0,193	0,170	0,152	0,137
	Periodic thermal transmittance ⁶⁾	W/m ² K	Y_{IE}	0,107	0,050	0,027	0,014	0,008	0,004
	Phase shift	h	S	8h 58'	11h 49'	14h 12'	16h 35'	18h 58'	21h 22'
	Attenuation factor		f_a	0,384	0,225	0,140	0,085	0,051	0,030
	Internal thermal capacity	kJ/m ² K	C	16,70	15,75	15,29	15,12	15,10	15,12
	Specific heat	kJ/kgK	c			1,0			
	Water vapour diffusion resistance factor		μ			5 (wet-cup) – 10 (dry-cup)			
	Water vapour permeability	kg/msPa	δ_a			32 × 10 ⁻¹²			
Acoustics	Superficial mass with plaster and mortars ⁷⁾	kg/m ²	M_s	105	123	138	153	168	183
	Weighted sound reduction index ⁸⁾	dB	R_w	43	46	47	49	50	51

Note:

- 1) In the direction orthogonal (⊥) to the face LxW that is in the vertical direction.
- 2) In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.
- 3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.
- 4) Weight to be used for structural calculations (includes residual humidity in steady state).
- 5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10$ W/m²K.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1,100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150$ kg/m² and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150$ kg/m² (considered mass of note 7)).

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

ENERGY type SMOOTH

350 kg/m³
0,080 W/mK

Certifications:

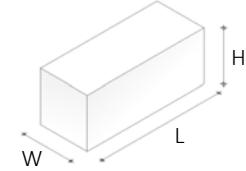


EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, industrially produced, suitable for the construction of both external and internal masonries, not load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.						
Manufacturing dimensions		<i>mm</i>	240/450	600	250		
Tolerance category TLMA		<i>mm</i>	± 2	± 3	± 2		



Technical data

	<i>Description</i>	<i>UdM</i>	<i>symbol</i>																	
	Block width	<i>mm</i>	<i>W</i>	240	300	350	375	400												
Mechanical – physical characteristics block	Dry density	<i>kg/m³</i>		<i>350 ± 50</i>																
	Dry block's weight	<i>kg</i>	± 5%	12,60	15,75	18,40	19,70	21,00												
	Dimensional stability for humidity	<i>mm/m</i>	$\epsilon_{cs,ref} \leq$	0,06																
	Mean compressive strength ¹⁾	<i>N/mm²</i>	$f_m >$	2,1 categ. I	2,3 categ. I															
	Characteristic compressive strength ¹⁾	<i>N/mm²</i>	$f_{bk} \geq$	1,6 categ. I	1,7 categ. I															
	Characteristic compressive strength orthogonal ²⁾	<i>N/mm²</i>	$\bar{f}_{bk} \geq$	1,8 categ. I																
	Normalized compressive strength	<i>N/mm²</i>	$f_b \geq$	2,6 categ. I																
	Reaction to fire	Euroclass		A1																
	Fire resistance			EI240																
	Mean density masonry ⁴⁾	<i>kg/m³</i>	<i>Gm</i>	450 ± 50																
Mechanical characteristics masonry ³⁾	Characteristic flexural strength adhesion	<i>N/mm²</i>	f_{xk1}/f_{xk2}																	
	Mean compressive strength	<i>N/mm²</i>	<i>f_m</i>																	
	Characteristic compressive strength	<i>N/mm²</i>	<i>f_k</i>																	
	Mean initial shear strength	<i>N/mm²</i>	<i>f_{vm}</i>																	
	Characteristic initial shear strength (τ_0 in N/cm ²)	<i>N/mm²</i>	<i>f_{vko}</i>																	
	Poisson coefficient	<i>N/mm²</i>	<i>v</i>																	
	Modulus of normal secant elasticity	<i>N/mm²</i>	<i>E</i>																	
	Shear modulus	<i>N/mm²</i>	<i>G</i>																	
	Dry thermal conductivity	<i>W/mK</i>	$\lambda_{10,dry}$	0,080																
	Measured according to the standard EN 12667																			
Thermo-hygrometric characteristics	Stationary thermal transmittance ⁵⁾	<i>W/m²K</i>	<i>U</i>	0,315	0,255	0,220	0,206	0,193												
	Periodic thermal transmittance ⁶⁾	<i>W/m²K</i>	<i>Y_{IE}</i>	0,117	0,055	0,029	0,021	0,016												
	Phase shift	<i>h</i>	<i>S</i>	9h 9'	12h 3'	14h 27'	15h 39'	16h 52'												
	Attenuation factor			<i>f_a</i>	0,370	0,215	0,132	0,103												
	Internal thermal capacity	<i>kJ/m²K</i>	<i>C</i>	18,90	17,82	17,33	17,22	17,15												
	Specific heat	<i>kJ/kgK</i>	<i>c</i>	1,0																
	Water vapour diffusion resistance factor			<i>μ</i>	5 (wet-cup) – 10 (dry-cup)															
	Water vapour permeability	<i>kg/msPa</i>	<i>δ_a</i>	32 × 10 ⁻¹²																
	Superficial mass with plaster and mortars ⁷⁾	<i>kg/m²</i>	<i>M_s</i>	117	138	156	164	173												
	Weighted sound reduction index ⁸⁾	<i>dB</i>	<i>R_w</i>	45	47	49	49	50												
Note:																				
1) In the direction orthogonal (⊥) to the face $L \times W$ that is in the vertical direction.																				
2) In the direction orthogonal (⊥) to the face $L \times H$ that is in the horizontal direction.																				
3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.																				
4) Weight to be used for structural calculations (includes residual humidity in steady state).																				
5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m ² K/W and outside surface resistance equal to 0,04 m ² K/W in compliance with UNI EN ISO 6946.																				
Warnings: Protect the masonry from rain and frost during installation until the plaster is applied.																				
The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.																				
6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.																				
7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m ³ in compliance with UNI EN 998-1.																				
8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).																				

ENERGY type TONGUE AND GROOVE

350 kg/m³
0,080 W/mK

Certifications:



EN 771-4 category I



UNI EN ISO 9001

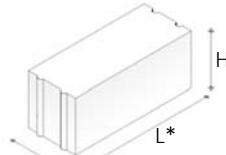


ICMQ
Certificazione
sistema qualità

Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, with male/female vertical joints, industrially produced, suitable for the construction of both external and internal masonries, not load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.					
		W	L*	H		
	Manufacturing dimensions	mm	240/450	600	250	

* The length "L*" includes the protrusion of the tongue



Technical data

	Description	UdM	symbol	240	300	350	400	450
Dimensions	Block width	mm	W	240	300	350	400	450
Mechanical - physical characteristics	Dry density	kg/m ³				350 ± 50		
masonry 3)	Dry block's weight	kg	± 5%	12,40	15,50	18,05	20,65	23,25
	Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$			0,06		
	Mean compressive strength 1)	N/mm ²	$f_m >$	2,1 categ. I		2,3 categ. I		
	Characteristic compressive strength 1)	N/mm ²	$f_{bk} \geq$	1,6 categ. I		1,7 categ. I		
	Characteristic compressive strength orthogonal 2)	N/mm ²	$\bar{f}_{bk} \geq$			1,8 categ. I		
	Normalized compressive strength	N/mm ²	$f_b \geq$			2,6 categ. I		
Mechanical characteristics	Reaction to fire	Euroclass				A1		
	Fire resistance					EI240		
	Mean density masonry 4)	kg/m ³	Gm			450 ± 50		
	Characteristic flexural strength adhesion	N/mm ²	f_{xk1}/f_{xk2}					
	Mean compressive strength	N/mm ²	f_m					
	Characteristic compressive strength	N/mm ²	f_k					
	Mean initial shear strength	N/mm ²	f_{vm}					
	Characteristic initial shear strength (t_0 in N/cm ²)	N/mm ²	f_{vko}					
	Poisson coefficient	N/mm ²	ν					
	Modulus of normal secant elasticity	N/mm ²	E					
	Shear modulus	N/mm ²	G					
Thermo - hygrometric characteristics	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$			0,080		
	Measured according to the standard EN 12667							
	Stationary thermal transmittance 5)	W/m ² K	U	0,315	0,255	0,220	0,193	0,173
	Periodic thermal transmittance 6)	W/m ² K	Y_{IE}	0,117	0,055	0,029	0,016	0,008
	Phase shift	h	S	9h 9'	12h 3'	14h 27'	16h 52'	19h 16'
	Attenuation factor		f_a	0,370	0,215	0,132	0,080	0,048
	Internal thermal capacity	kJ/m ² K	C	18,90	17,82	17,33	17,15	17,14
	Specific heat	kJ/kgK	c			1,0		
	Water vapour diffusion resistance factor		μ			5 (wet-cup) – 10 (dry-cup)		
	Water vapour permeability	kg/msPa	δ_a			32×10^{-12}		
Acoustic s	Superficial mass with plaster and mortars 7)	kg/m ²	M_s	117	138	156	173	191
	Weighted sound reduction index 8)	dB	R_w	45	47	49	50	51

Note:

1) In the direction orthogonal (⊥) to the face L x W that is in the vertical direction.

2) In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarsa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10$ W/m²K.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1,100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150$ kg/m² and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150$ kg/m² (considered mass of note 7).

Certifications:

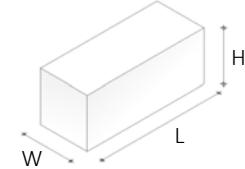


EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, industrially produced, suitable for the construction of both external and internal masonries, load-bearing and non-load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.			
	W mm	L mm	H mm	
	240/375	600	250	



Technical data

	Description	UdM	symbol							
	Block width	mm	W	240	300	350	375			
Mechanical characteristics block	Dry density	kg/m³		580 ± 50						
	Dry block's weight	kg	± 5%	20,90	26,10	30,45	32,65			
	Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$	0,04						
	Mean compressive strength ¹⁾	N/mm²	$f_m >$	5,0 categ. I						
	Characteristic compressive strength ¹⁾	N/mm²	$f_{bk} \geq$	5,0 categ. I						
	Characteristic compressive strength orthogonal ²⁾	N/mm²	$\bar{f}_{bk} \geq$	5,0 categ. I						
	Normalized compressive strength	N/mm²	$f_b \geq$	5,0 categ. I						
	Reaction to fire	Euroclass		A1						
	Fire resistance			EI 240 – REI 180	EI 240 – REI 240					
Mechanical characteristics masonry ³⁾	Mean density masonry ⁴⁾	kg/m³	Gm	700 ± 60						
	Characteristic flexural strength adhesion	N/mm²	f_{xk1}/f_{xk2}	0,15/0,30						
	Mean compressive strength	N/mm²	f_m	4,6						
	Characteristic compressive strength	N/mm²	f_k	3,3						
	Mean initial shear strength	N/mm²	f_{vm}	0,43						
	Characteristic initial shear strength (τ_0 in N/cm ²)	N/mm²	f_{vko}	0,30						
	Poisson coefficient	N/mm²	ν	1						
	Modulus of normal secant elasticity	N/mm²	E	4574						
	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$	0,130						
Thermo-hygroscopic characteristics	Measured according to the standard EN 12667									
	Stationary thermal transmittance ⁵⁾	W/m²K	U	0,496	0,404	0,349	0,327			
	Periodic thermal transmittance ⁶⁾	W/m²K	Y_{IE}	0,167	0,078	0,041	0,030			
	Phase shift	h	S	9h 35'	12h 30'	14h 56'	16h 9'			
	Attenuation factor		f_a	0,337	0,193	0,118	0,091			
	Internal thermal capacity	kJ/m²K	C	28,47	26,89	26,20	26,04			
	Specific heat	kJ/kgK	c	1,0						
	Water vapour diffusion resistance factor		μ	5 (wet-cup) – 10 (dry-cup)						
	Water vapour permeability	kg/msPa	δ_a	32 × 10 ⁻¹²						
Acoustics	Superficial mass with plaster and mortars ⁷⁾	kg/m²	M_s	172	207	236	250			
	Weighted sound reduction index ⁸⁾	dB	R_w	50	52	54	54			

Note:

1) In the direction orthogonal (⊥) to the face L x W that is in the vertical direction.

2) In the direction orthogonal (⊥) to the face L x H that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarasa type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

The Ekoru s.r.l. reserves the right to make technical changes of any kind without prior notice. This technical data sheet cancel and replace the previous review.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5$ [dB] for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4$ [dB] for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

SYSMIC IDRO type SMOOTH

580 kg/m³
0,130 W/mK

Certifications:

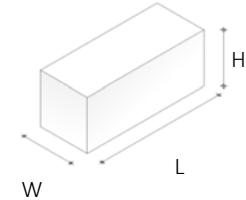


EN 771-4 category I



UNI EN ISO 9001

ICMQ
Certificazione
sistema qualità



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, hydrophobic in bulk, industrially produced, suitable for the construction of both external and internal masonries, load-bearing and non-load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.						
Manufacturing dimensions		<i>mm</i>	240/400	600	250		
Tolerance category TLMA		<i>mm</i>	± 2	± 3	± 2		

Technical data

	<i>Description</i>	<i>UdM</i>	<i>symbol</i>					
	Block width	<i>mm</i>	<i>W</i>	240	300	350	375	400
	Dry density	<i>kg/m³</i>				580 ± 50		
	Dry block's weight	<i>kg</i>	± 5%	20,90	26,10	30,45	32,65	34,80
	Dimensional stability for humidity	<i>mm/m</i>	$\varepsilon_{cs,ref} \leq$			0,04		
	Mean compressive strength ¹⁾	<i>N/mm²</i>	$f_m >$			5,0 categ. I		
	Characteristic compressive strength ¹⁾	<i>N/mm²</i>	$f_{bk} \geq$			5,0 categ. I		
	Characteristic compressive strength orthogonal ²⁾	<i>N/mm²</i>	$\bar{f}_{bk} \geq$			5,0 categ. I		
	Normalized compressive strength	<i>N/mm²</i>	$f_b \geq$			5,0 categ. I		
	Reaction to fire	<i>Euroclass</i>				A1		
	Fire resistance			EI 240 – REI 180		EI 240 – REI 240		
	Mean density masonry ⁴⁾	<i>kg/m³</i>	<i>Gm</i>			700 ± 60		
	Characteristic flexural strength adhesion	<i>N/mm²</i>	f_{xk1}/f_{xk2}			0,15/0,30		
	Mean compressive strength	<i>N/mm²</i>	<i>f_m</i>			4,6		
	Characteristic compressive strength	<i>N/mm²</i>	<i>f_k</i>			3,3		
	Mean initial shear strength	<i>N/mm²</i>	<i>f_{vm}</i>			0,43		
	Characteristic initial shear strength (τ_0 in N/cm ²)	<i>N/mm²</i>	<i>f_{vko}</i>			0,30		
	Poisson coefficient	<i>N/mm²</i>	<i>v</i>			1		
	Modulus of normal secant elasticity	<i>N/mm²</i>	<i>E</i>			4574		
	Shear modulus	<i>N/mm²</i>	<i>G</i>			1830		
	Dry thermal conductivity	<i>W/mK</i>	$\lambda_{10,dry}$			0,130		
	Measured according to the standard EN 12667							
	Stationary thermal transmittance ⁵⁾	<i>W/m²K</i>	<i>U</i>	0,496	0,404	0,349	0,327	0,308
	Periodic thermal transmittance ⁶⁾	<i>W/m²K</i>	<i>Y_{IE}</i>	0,167	0,078	0,041	0,030	0,022
	Phase shift	<i>h</i>	<i>S</i>	9h 35'	12h 30'	14h 56'	16h 9'	17h 22'
	Attenuation factor		<i>f_a</i>	0,337	0,193	0,118	0,091	0,071
	Internal thermal capacity	<i>kJ/m²K</i>	<i>C</i>	28,47	26,89	26,20	26,04	25,96
	Specific heat	<i>kJ/kgK</i>	<i>c</i>			1,0		
	Water vapour diffusion resistance factor		<i>μ</i>			5 (wet-cup) – 10 (dry-cup)		
	Water vapour permeability	<i>kg/msPa</i>	<i>δ_a</i>			32 x 10 ⁻¹²		
	Superficial mass with plaster and mortars ⁷⁾	<i>kg/m²</i>	<i>M_s</i>	172	207	236	250	265
	Weighted sound reduction index ⁸⁾	<i>dB</i>	<i>R_w</i>	50	52	54	54	55

Note:

- 1) In the direction orthogonal (⊥) to the face $L \times W$ that is in the vertical direction.
- 2) In the direction orthogonal (⊥) to the face $L \times H$ that is in the horizontal direction.
- 3) Masonry made with cement-based adhesive mortar Incollarsara type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.
- 4) Weight to be used for structural calculations (includes residual humidity in steady state).
- 5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m²K/W and outside surface resistance equal to 0,04 m²K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 \text{ W/m}^2\text{K}$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m³ in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5 \text{ [dB]}$ for walls of surface mass $M_s < 150 \text{ kg/m}^2$ and $R_w = 26,1 \log M_s - 8,4 \text{ [dB]}$ for surface mass wall $M_s > 150 \text{ kg/m}^2$ (considered mass of note 7)).

SYSMIC IDRO type SMOOTH

580 kg/m³
0,130 W/mK

Certifications:

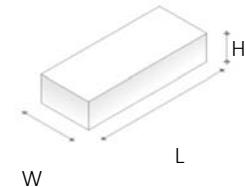


EN 771-4 category I



Description

Dimensions	Solid element for masonry in the shape of a rectangular cuboid, made by autoclaved aerated concrete (AAC), white coloured, smooth, hydrophobic in bulk, industrially produced, suitable for the construction of both external and internal masonries, load-bearing and non-load-bearing also in high-seismic areas, to be plastered. Element of Group 1 according to the EN 1996-1-1.				
	W	L	H		
	mm	240/400	600	125	
	mm	± 2	± 3	± 2	



Technical data

	Description	UdM	symbol					
	Block width	mm	W	240	300	350	375	400
Mechanical – physical characteristics block	Dry density	kg/m^3				580 ± 50		
	Dry block's weight	kg	$\pm 5\%$	10,45	13,05	15,25	16,30	17,40
	Dimensional stability for humidity	mm/m	$\epsilon_{cs,ref} \leq$			0,04		
	Mean compressive strength ¹⁾	N/mm^2	$f_m >$			5,0 categ. I		
	Characteristic compressive strength ¹⁾	N/mm^2	$f_{bk} \geq$			5,0 categ. I		
	Characteristic compressive strength orthogonal ²⁾	N/mm^2	$\bar{f}_{bk} \geq$			5,0 categ. I		
	Normalized compressive strength	N/mm^2	$f_b \geq$			5,0 categ. I		
	Reaction to fire		Euroclass			A1		
Mechanical characteristics masonry ³⁾	Fire resistance			EI 240 – REI 180		EI 240 – REI 240		
	Mean density masonry ⁴⁾	kg/m^3	Gm			700 \pm 60		
	Characteristic flexural strength adhesion	N/mm^2	f_{xk1}/f_{xk2}			0,15/0,30		
	Mean compressive strength	N/mm^2	f_m			4,6		
	Characteristic compressive strength	N/mm^2	f_k			3,3		
	Mean initial shear strength	N/mm^2	f_{vm}			0,43		
	Characteristic initial shear strength (τ_0 in N/cm^2)	N/mm^2	f_{vko}			0,30		
	Poisson coefficient	N/mm^2	ν			1		
	Modulus of normal secant elasticity	N/mm^2	E			4574		
	Shear modulus	N/mm^2	G			1830		
Thermo – hygrometric characteristics	Dry thermal conductivity	W/mK	$\lambda_{10,dry}$			0,130		
	Measured according to the standard EN 12667							
	Stationary thermal transmittance ⁵⁾	W/m^2K	U	0,496	0,404	0,349	0,327	0,308
	Periodic thermal transmittance ⁶⁾	W/m^2K	Y_{IE}	0,167	0,078	0,041	0,030	0,022
	Phase shift	h	S	9h 35'	12h 30'	14h 56'	16h 9'	17h 22'
	Attenuation factor		f_a	0,337	0,193	0,118	0,091	0,071
	Internal thermal capacity	kJ/m^2K	C	28,47	26,89	26,20	26,04	25,96
	Specific heat	kJ/kgK	c			1,0		
	Water vapour diffusion resistance factor		μ			5 (wet-cup) – 10 (dry-cup)		
	Water vapour permeability	$kg/msPa$	δ_a			32×10^{-12}		
Acoustics	Superficial mass with plaster and mortars ⁷⁾	kg/m^2	M_s	172	207	236	250	265
	Weighted sound reduction index ⁸⁾	dB	R_w	50	52	54	54	55

Note:

1) In the direction orthogonal (\perp) to the face $L \times W$ that is in the vertical direction.

2) In the direction orthogonal (\perp) to the face $L \times H$ that is in the horizontal direction.

3) Masonry made with cement-based adhesive mortar Incollarsara type M5 thin-layer T in compliance with UNI EN 998-2. Horizontal and vertical joint with a thickness between 0,5 mm and 3 mm distributed over the entire horizontal and vertical face of the block.

4) Weight to be used for structural calculations (includes residual humidity in steady state).

5) Transmittance value determined without plaster, with inside surface resistance of 0,13 m^2K/W and outside surface resistance equal to 0,04 m^2K/W in compliance with UNI EN ISO 6946.

Warnings:

Protect the masonry from rain and frost during installation until the plaster is applied.

6) It is the index of thermal inertia, it is the product of the stationary transmittance by the attenuation factor. In Italy the limit is $Y_{IE} < 0,10 W/m^2K$.

7) Value referred to masonry with the addition of thk. 15 mm on each side of MULTICEM cementitious plaster with a mass of about 1.100 kg/m^3 in compliance with UNI EN 998-1.

8) Value calculated with mass laws suggested by the EAACA through the use of the formula $R_w = 32,6 \log M_s - 22,5 [dB]$ for walls of surface mass $M_s < 150 kg/m^2$ and $R_w = 26,1 \log M_s - 8,4 [dB]$ for surface mass wall $M_s > 150 kg/m^2$ (considered mass of note 7)).