

## DECLARATION OF PERFORMANCE

**No.: LE BA15498-24-EN**

1. Unique identification code of the product:

**Durisol permanent formwork wood concrete blocks**

Type DMi 15/9 N, DMi 15/9 U, DMi 17/12 N, DMi 17/12 U, DMi 20/13 N, DMi 20/13 U, DMi 25/18 N, DMi 25/18 U, DMi 31,5/18 N, DMi 31,5/18 U, DMi 38/18 N, DMi 30/20 N, DMi 30/20 U, DMi 35/20 N, DMi 35/20 U, DSs 30/12 N, DSs 30/12 U, DSs 37,5/12 N, DSs 37,5/12 U, DSs 45/12 N, DSs 45/12 U, DSm 45/12 N, DSm 45/12 U, DSh 45/12 N, DSh 45/12 U, DSi 25/13 W, DSi 25/13 N, DSi 30/13 W, DSi 30/13 N, DSi 35/13 W, DSi 45/13 F

2. The intended uses of the construction product:

**According to Annex ZA.1 to EN 15498:2008 formwork fittings, which are laid dry without mortar and filled with concrete for the construction of external and internal formwork walls and fences.**

3. Manufacturer:

**Leier Baustoffe SK s.r.o.**  
**Pribylinská 3**  
**SK - 831 04 Bratislava**  
**Telefon: 00421 2 43191751, Fax: 00421 2 43 635 722, E-Mail: lubomir.roth@leier.sk**

4. Authorized representative:

**Lubomir Roth**  
SK 831 04 Bratislava, Pribylinská 3

5. System or systems for assessing and verifying the constancy of the parameters of the construction product:

**System 4**

6. Harmonized standard:

**EN 15498:2008**

Notified body: For products subject to System 4 the Manufacturer's Declaration is sufficient.

7. Declared parameters:

Essential properties	Parameters								Harmonized technical standard
	Durisol permanent formwork wood concrete block Type	DMi 15/9 N DMi 15/9 U	DMi 17/12 N DMi 17/12 U	DMi 20/13 N DMi 20/13 U	DMi 25/18 N DMi 25/18 U	DMi 31,5/18 N DMi 31,5/18 U	DMi 38/18 N	DMi 30/20 N DMi 30/20 U	
Dimensions: Thickness of outer wall (mm)		30/30	25/25	35/35	35/35	100/35	100/100	65/35	
Thickness of concrete core (mm)		90	120	130	180	180	180	200	
Dimension of block (l <sub>x</sub> w <sub>x</sub> h)		500x150x250	500x170x250	500x200x250	500x250x250	500x315x250	500x380x250	500x300x250	
Tolerances [mm]		Length: ± 5   Width: ± 5   Height: ± 3   Measurement of hollow space and space between outer walls: +10/ -3							EN 15498
Surface area of space between outer walls		8.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	15.000 mm <sup>2</sup>	15.000 mm <sup>2</sup>	15.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	EN 15498
Moisture-induced shape change		NPD							EN 15498
Reaction to fire		A2-s1, d0							EN 13501-1
Water vapor diffusion		μ=2 (moist) μ=8 (dry)							EN 15498
Mechanical Strengths: Tensile strenght of outer walls		≥ 0,14 N/mm <sup>2</sup>	≥ 0,16 N/mm <sup>2</sup>	≥ 0,10 N/mm <sup>2</sup>	≥ 0,18 N/mm <sup>2</sup>	≥ 0,18 N/mm <sup>2</sup>	≥ 0,18 N/mm <sup>2</sup>	≥ 0,13 N/mm <sup>2</sup>	EN 15498
Bending tensile strenght of outer walls		≥ 0,21 N/mm <sup>2</sup>	≥ 0,32 N/mm <sup>2</sup>	≥ 0,18 N/mm <sup>2</sup>	≥ 0,20 N/mm <sup>2</sup>	≥ 0,20 N/mm <sup>2</sup>	≥ 0,03 N/mm <sup>2</sup>	≥ 0,22 N/mm <sup>2</sup>	EN 15498
Bending tensile strenght of outer wall perpendicular to viewing area		≥ 0,15 N/mm <sup>2</sup>							EN 15498
Acoustic properties		NPD							EN 15498
Heat transfer coefficient		λ <sub>D</sub> 0,1230 W/mK / λ <sub>R</sub> 0,1275 W/mK							EN ISO 10456
Frost resistance		Complies							EN 14474
Road salt resistance		Complies							EN 14474
Dangerous substances		No dangerous substances							EN 15498

Essential properties	Parameters							Harmonized technical standard
	Durisol permanent formwork wood concrete block Type	DMi 35/20 N DMi 35/20 U	DSs 30/12 N DSs 30/12 U	DSs 37,5/12 N DSs 37,5/12 U	DSs 45/12 N DSs 45/12 U	DSm 45/12 N DSm 45/12 U	DSh 45/12 N DSh 45/12 U	
Dimensions:								
Thickness of outer wall (mm)		90/60	35/40	40/40	40/40	40/40	40/40	
Thickness of concrete core (mm)		200	120	120	120	120	120	
Dimension of block (l <sub>w</sub> xh)		500x350x250	500x300x250	500x375x250	500x450x250	500x450x250	500x450x250	
Tolerances [mm]		Length: ± 5   Width: ± 5   Height: ± 3   Measurement of hollow space and space between outer walls: +10/ -3						
Surface area of space between outer walls		10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	10.000 mm <sup>2</sup>	EN 15498
Moisture-induced shape change		NPD						EN 15498
Reaction to fire		A2-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	A2-s1, d0	B-s1, d0	EN 13501-1
Water vapor diffusion		μ=2 (moist) μ=8 (dry)						EN 15498
Mechanical Strengths:								
Tensile strenght of outer walls		≥ 0,13 N/mm <sup>2</sup>	≥ 0,16 N/mm <sup>2</sup>	≥ 0,10 N/mm <sup>2</sup>	≥ 0,16 N/mm <sup>2</sup>	≥ 0,16 N/mm <sup>2</sup>	≥ 0,16 N/mm <sup>2</sup>	EN 15498
Bending tensile strenght of outer walls		≥ 0,07 N/mm <sup>2</sup>	≥ 0,12 N/mm <sup>2</sup>	≥ 0,08 N/mm <sup>2</sup>	≥ 0,12 N/mm <sup>2</sup>	≥ 0,12 N/mm <sup>2</sup>	≥ 0,12 N/mm <sup>2</sup>	EN 15498
Bending tensile strenght of outer wall perpendicular to viewing area		≥ 0,15 N/mm <sup>2</sup>						EN 15498
Acoustic properties		NPD						EN 15498
Heat transfer coefficient		λ <sub>D</sub> 0,1230 W/mK / λ <sub>R</sub> 0,1275 W/mK						EN ISO 10456
Frost resistance		Complies						EN 14474
Road salt resistance		Complies						EN 14474
Dangerous substances		No dangerous substances						EN 15498

Essential properties	Parameters							Harmonized technical standard	
	Durisol permanent formwork wood concrete block Type	DSi 25/13 W	DSi 25/13 N	DSi 30/13 W	DSi 30/13 N	DSi 35/13 W	DSi 45/13 F		
Dimensions:									
Thickness of outer wall (mm)		85/35	85/35	85/85	85/85	110/110	160/160		
Thickness of concrete core (mm)		130	130	130	130	130	130		
Dimension of block (l <sub>w</sub> xh)		500x250x250	500x250x250	500x300x250	500x300x250	500x350x250	500x450x250		
Tolerances [mm]		Length: ± 5   Width: ± 5   Height: ± 3   Measurement of hollow space and space between outer walls: +10/ -3							EN 15498
Surface area of space between outer walls		14.400 mm <sup>2</sup>	14.400 mm <sup>2</sup>	14.400 mm <sup>2</sup>	14.400 mm <sup>2</sup>	14.400 mm <sup>2</sup>	14.400 mm <sup>2</sup>	EN 15498	
Moisture-induced shape change		NPD							EN 15498
Reaction to fire		A2-s1, d0							EN 13501-1
Water vapor diffusion		μ=2 (moist) μ=8 (dry)							EN 15498
Mechanical Strengths:									
Tensile strenght of outer walls		≥ 0,15 N/mm <sup>2</sup>	≥ 0,12 N/mm <sup>2</sup>	≥ 0,15 N/mm <sup>2</sup>	≥ 0,15 N/mm <sup>2</sup>	≥ 0,15 N/mm <sup>2</sup>	≥ 0,15 N/mm <sup>2</sup>	EN 15498	
Bending tensile strenght of outer walls		≥ 0,15 N/mm <sup>2</sup>	≥ 0,13 N/mm <sup>2</sup>	≥ 0,15 N/mm <sup>2</sup>	≥ 0,03 N/mm <sup>2</sup>	≥ 0,05 N/mm <sup>2</sup>	≥ 0,02 N/mm <sup>2</sup>	EN 15498	
Bending tensile strenght of outer wall perpendicular to viewing area		≥ 0,15 N/mm <sup>2</sup>							EN 15498
Acoustic properties		NPD							EN 15498
Heat transfer coefficient		λ <sub>D</sub> 0,1230 W/mK / λ <sub>R</sub> 0,1275 W/mK							EN ISO 10456
Frost resistance		Complies							EN 14474
Road salt resistance		Complies							EN 14474
Dangerous substances		No dangerous substances							EN 15498

The listed product parameters are in compliance with the declared parameters. The above-mentioned manufacturer is solely responsible for issuing the Declaration of Performance in compliance with the Regulation (EU) No. 305/2011.

Signed for the manufacturer and in the name of the manufacturer:

Leier Baustoffe SK s.r.o.  
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**Lubomir Roth, executive director**  
 (Name and occupation)

**Bratislava, 18.03.2024** (Place and date)

**Leier Baustoffe SK s.r.o., Pribylinská 3, SK-831 04 Bratislava**

Declaration of Performance | DoP

Issue: 07/2024 – This issue replaces all previous issues