



PAVUS, a.s.
Authorized Body 216
Prosecká 412/74, 190 00 Praha 9 – Prosek, Czech Republic
Decision on Authorization No. 1/2022 from 14th March 2022

P R O D U C T C E R T I F I C A T E

No. 216/C5/2023/00151

issued for

manufacturer:

KOMA MODULAR s.r.o., Říčanská 1191, 763 12 Vizovice, Czech Republic
ID: 46966170

place of manufacture:

KOMA MODULAR s.r.o., Říčanská 1191, 763 12 Vizovice, Czech Republic

Authorized Body 216 confirms, pursuant to article § 5a of Government Order No. 163/2002 Coll., which lays down technical requirements for selected construction products, as amended by Government Order No. 312/2005 Coll. and Government Order No. 215/2016 Col. (hereinafter referred to as Government Order No. 163/2002 Coll.), that in case of the construction product:

Multi-purpose residential modules KOMA, type C3/2023

The Authorized Body AB 216 has reviewed documents submitted by the manufacturer, performed the initial type testing of the product specimen and initial audit in the place of manufacture, assessed the factory production control by manufacturer and has found out that this product fulfils the requirements determined by technical regulations that relate to the essential requirements given in the Construction Technical Approval No. S-216/C5/22023/0151 dated 1st December 2023 issued by the AB 216 with validity until 31st December 2026 (hereinafter referred to as "CTA").

The Authorized body 216 has found out, that the factory production control by the manufacturer complies with the appropriate technical documentation and ensures that the products put on the market meet the requirements laid down in the above-mentioned CTA and comply with the appropriate technical documentation according to article § 4, paragraph 3 of the above-mentioned Government Order.

An integral part of this product certificate is the Certification Report No. P-216/C5/2023/0151 dated 27th December, which contains conclusions of findings, verifications, test results and general description of the certified product, necessary for its identification.

This certificate remains valid as long as the requirements stated in the CTA referred to hereinabove or the manufacturing conditions in the factory and factory production control of the products by the manufacturer, are not significantly modified or the Authorized Body amends or cancels the certificate.

This certificate supersedes and cancels the Certificate No. 216/C5/2019/0031/O1 dated 22th March 2019, issued by AB 216.

The Authorized Body AB 216 performs surveillance of proper factory production control by the manufacturer and assessment that product performance complies with CTA according to article § 5a paragraph 2 of Government Order No. 163/2002 Coll. at least once every 12 months.

The Authorized Body will issue a report for the audit and send it over to the manufacturer.

Prague, 27th December 2023




Jan Tripes
Managing Director – AB 216

Assessed properties of the certified product are stated on the other side of this certificate.

Assessed performance of the certified product

Monitored declared property	Identified (request) classification standard	Required/declared level	Findings/Classification	Conformity assessment						
Mechanical resistance and stability - carrying capacity and usability	ČSN EN 1990 ČSN EN 1993-1-2 ČSN EN 1991-1-2	According to static calculations	Static calculations	Conforms						
Fire resistance	ČSN 73 0810 ČSN EN 13501-2	RE 30 (i→ o) REI 20 (i→ o) REW 30 (i→ o) RE 30-ef (o→i) REI 20-ef (o→i) REW 30 -ef (o→i) REI 45 REI 15 REW 15 R 15-45 REI 30	<p>- load bearing wall – thermal stress from the inside RE 30 (i→ o) DP3 / REI 20 (i→ o) DP3 / REW 30 (i→ o) DP3 as fire closed area</p> <p>- load bearing wall – thermal stress from the outside: RE 30-ef (o→i) DP3 / REI 20-ef (o→i) DP3 / REW 30-ef (o→i) DP3 as fire closed area</p> <p>- load bearing internal double fire partition wall thermal stress from the inside RE 30 (i→ o) DP3 / REI 20 (i→ o) DP3 / REW 30 (i→ o) DP3</p> <p>- doubled ceiling construction - thermal stress from bottom side: REI 45 DP3</p> <p>- roof construction with thermal stress from bottom side: REI 15 DP3 REW 15 DP3 as fire closed area</p> <p>- load bearing steel construction independently protected against thermal stress from the inside, time of fire resistance depends on thickness of KNAUF RED (GKF) board according to the following table:</p> <table border="1"> <thead> <tr> <th>Required fire resistance</th> <th>Thickness of Knauf - RED</th> </tr> </thead> <tbody> <tr> <td>R 15, R 30</td> <td>1 × 12,5 mm</td> </tr> <tr> <td>R 45</td> <td>1 × 18,0 mm</td> </tr> </tbody> </table> <p>Steel columns and beams protected by plasterboard cladding from the inside: R 30 DP3 / REI 30 DP3</p> <p>- internal steel stairs protected by boarding R 15 DP1: R 15 DP1</p> <p>- internal steel stairs protected by boarding R 30 DP1: R 30 DP1</p>	Required fire resistance	Thickness of Knauf - RED	R 15, R 30	1 × 12,5 mm	R 45	1 × 18,0 mm	Conforms
Required fire resistance	Thickness of Knauf - RED									
R 15, R 30	1 × 12,5 mm									
R 45	1 × 18,0 mm									
Reaction to fire	ČSN EN 13501-1	A1 to D-s2, d0	<p>Steel: A1 Galvanized sheet: A1 Mineral wool: A1 Glass wool: A1 Chipboard board and laminated board: D-s2, d0 Plasterboard: A2-s1, d0</p>	Conforms						
Construction type	ČSN 73 0810	DP1, DP3	<p>Internal steel stairs: DP1 Other constructions: DP3</p>	Conforms						
Airborne sound insulation of external wall of container	ČSN 73 0532	min. $D_{1s,2m,n,w}(C;C_{tr}) = 32(-2;-8)$ dB	min. $D_{1s,2m,n,w}(C;C_{tr}) = 32(-2;-8)$ dB	Conforms						
Airborne sound insulation of doubled external wall between containers	ČSN 73 0532	$R'_w(C;C_{tr}) = 47(-7;-15)$ dB	$R'_w(C;C_{tr}) = 47(-7;-15)$ dB	Conforms						
Airborne and impact sound insulation of the ceiling construction between containers	ČSN 73 0532	$R'_w(C;C_{tr}) = 59(-5;-12)$ dB $L'_{n,w} = 56$ dB	$R'_w(C;C_{tr}) = 59(-5;-12)$ dB $L'_{n,w} = 56$ dB	Conforms						

The CTA No. S-216/C5/2023/00151 is valid until 31st December 2026.




Jan Tripes
 Managing Director – AB 216