



KOPOS KOLÍN a.s.
Havlíčková 432
CZ - 280 02 Kolín

1/Air permeability/21-08

DECLARATION OF CONFORMITY

We, **KOPOS KOLÍN a. s.**
Havlíčková 432
280 02 Kolín
Czech republic

declare under our sole responsibility that

Product: **Two-component electrical box**

Type: **KPL 64-40/LD, KPL 64-50/LD, KPL 64-40/2LD, KU 68 LD/1, KU 68 LD/2, KUL 68-45/LD, KUL 68-45/LD2, KP 64/LD, KPL 64-50/2LD, KPL 64-50/3LD, KPRL 64-60/LD, KPRL 68-70/LD, KU 68LD, KU 68LD/1 HF, KP 64/LD, KP 64/LD HF, KPL 64-40/3LD, KPL 64-50/4LD, KPL 64-50/5LD, KO 97/LD, KO 180/LD, KP 68/D, KPR 68/D, KPZ-1**

Manufacturer: **KOPOS KOLÍN a.s.. Havlíčkova 432, Kolín IV, 280 02 Kolín, Czech Republic**

Was tested according to:

ČSN EN ISO 9972:2016

Thermal performance of buildings - Determination of air permeability of buildings - Pressure method

TP-KO-03/2012

Technical conditions Kopos: Air permeability test of two-component boxes

TP-KO-03/2012+change B/2021

Technical conditions Kopos: Air permeability test of two-component boxes

Complementary information:

EZÚ test protocol No. **211192-01/01 of 9.7.2021**

EZÚ test protocol No. **702259-01/01 of 21.8.2017**

EZÚ test report No. **202728-01 / 01 of 14.8.2012**

issued by Elektrotechnický zkušební ústav, Pod Lisem 129, 171 02 Praha 8, Czech Republic

Test result:

Measured values for wiring box KPL 64-40/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,167	0,163	0,034	0,030
	1	0,171	0,165	0,035	0,032
	2	0,174	0,172	0,037	0,035
	4	-	-	-	-



KOPOS KOLÍN a.s.
Havlíčková 432
CZ - 280 02 Kolín

Measured values for wiring box KPL 64-50/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,216	0,212	0,013	0,010
	1	0,217	0,214	0,013	0,015
	2	0,221	0,226	0,013	0,015
	4	-	-	-	-

Measured values for wiring box KPL 64-40/2LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,363	0,348	0,013	0,017
	1	0,363	0,352	0,019	0,017
	2	0,370	0,368	0,020	0,020
	4	0,391	0,377	0,023	0,021

Measured values for wiring box KU 68 LD/1

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,086	0,084	0,032	0,033
	1	0,086	0,086	0,034	0,035
	2	0,089	0,088	0,035	0,035
	4	0,093	0,093	0,038	0,037

Measured values for wiring box KU 68 LD/2

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,136	0,111	0,011	0,016
	1	0,140	0,114	0,013	0,018
	2	0,142	0,121	0,014	0,019
	4	0,146	0,129	0,015	0,020

Measured values for wiring box KUL 68-45/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,088	0,093	0,015	0,018
	1	0,102	0,099	0,019	0,019
	2	0,107	0,100	0,019	0,021
	4	0,109	0,102	0,022	0,023



KOPOS KOLÍN a.s.
Havlíčková 432
CZ - 280 02 Kolín

Measured values for wiring box KUL 68-45/LD2

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,057	0,052	0,023	0,024
	1	0,060	0,054	0,025	0,024
	2	0,061	0,068	0,027	0,031
	4	0,065	0,070	0,034	0,035

Measured values for wiring box KP 64/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,063	0,071	0,027	0,034
	1	0,070	0,072	0,035	0,037
	2	0,075	0,073	0,036	0,038
	4	0,081	0,092	0,047	0,038

Measured values for wiring box KPL 64-50/2LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,168	0,179	0,014	0,018
	1	0,183	0,186	0,019	0,019
	2	0,190	0,188	0,020	0,024
	4	0,197	0,190	0,023	0,024

Measured values for wiring box KPL 64-50/3LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,359	0,363	0,045	0,042
	1	0,364	0,370	0,045	0,044
	2	0,368	0,373	0,045	0,045
	4	0,370	0,375	0,046	0,047

Measured values for wiring box KPRL 64-60/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,057	0,068	0,024	0,024
	1	0,072	0,071	0,030	0,025
	2	0,074	0,076	0,032	0,031
	4	0,083	0,081	0,032	0,034



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Havlíčková 432
CZ - 280 02 Kolín

Measured values for wiring box KPRL 68-70/LD

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,099	0,118	0,031	0,019
	1	0,103	0,125	0,033	0,036
	2	0,107	0,138	0,034	0,039
	4	0,111	0,146	0,039	0,040

Measured values for wiring box KU 68LD, KU 68LD/1HF, KP 64/LD, KP 64/LD HF

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	Without cables	0,061	0,062	0,013	0,011
	1 loop	0,061	0,064	0,013	0,011
	2 loop	-	0,065	-	0,012
	4 loop	-	0,065	-	0,012

Complementary information: EZÚ test protocol No. **211192-01/01** of **9.7.2021**
issued by Elektrotechnický zkušební ústav, Pod Lisem 129, 171 02 Praha 8, Czech Republic

Test result:

Measured values for wiring box KPL 64-40/3LD:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,160	0,156	0,026	0,023
	1	0,162	0,159	0,027	0,024
	2	0,165	0,161	0,028	0,025
	4	0,169	0,162	0,030	0,026

Measured values for wiring box KPL 64-50/4LD:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,171	0,168	0,020	0,021
	1	0,172	0,171	0,027	0,024
	2	0,177	0,174	0,030	0,025
	4	0,178	0,180	0,036	0,026

Measured values for wiring box KPL 64-50/5LD:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,294	0,266	0,044	0,033
	1	0,297	0,269	0,046	0,040
	2	0,299	0,271	0,047	0,041
	4	0,302	0,286	0,048	0,043



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Havlíčková 432
CZ - 280 02 Kolín

Measured values for wiring box KO 97/LD:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	s krytkou	0,026	0,021	0,021	0,019
	0	0,030	0,024	0,023	0,020
	1	0,041	0,025	0,024	0,021
	2	0,043	0,026	0,031	0,023
	4	0,044	0,027	0,054	0,024

Measured values for wiring box KO 180/LD:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	s krytkou	0,444	0,430	0,143	0,115
	0	1,092	1,042	0,739	0,710
	1	1,099	1,063	0,746	0,718
	2	1,106	1,106	0,754	0,725
	4	1,121	1,121	0,761	0,732

Measured values for wiring box KP 68/D:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)	
		aerated concrete	
		overpressure	pressure
50 Pa	0	0,319	0,167
	1	0,400	0,204

Measured values for wiring box KPR 68/D:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)	
		aerated concrete	
		overpressure	pressure
50 Pa	0	0,415	0,390
	1	0,419	0,395

Measured values for wiring box KPZ-1:

Differential pressure Δp_l	Passage cables membranes	Air flow in a single box V (m ³ . h ⁻¹)			
		Oriented strand board		Gypsum board	
		overpressure	pressure	overpressure	pressure
50 Pa	0	0,171	0,168	0,019	0,017
	1	0,173	0,171	0,021	0,018
	2	0,176	0,178	0,022	0,020
	4	0,181	0,181	0,021	0,021



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Measured values for boards without boxes:

Differential pressure Δp_l	Air flow in a single box V (m ³ . h ⁻¹)					
	Oriented strand board		Gypsum board		aerated concrete	
	overpressure	pressure	overpressure	pressure	overpressure	pressure
50 Pa	0,024	0,023	0,018	0,018	0,107	0,109

Based on the test results are boxes KPL 64-40/LD, KPL 64-50/LD, KPL 64-40/2LD, KU 68 LD/1, KU 68 LD/2, KUL 68-45/LD, KUL 68-45/LD2, KP 64/LD, KPL 64-50/2LD, KPL 64-50/3LD, KPRL 64-60/LD, KPRL 68-70/LD, KU 68LD, KU 68LD/1 HF, KP 64/LD, KP 64/LD HF, KPL 64-40/3LD, KPL 64-50/4LD, KPL 64-50/5LD, KO 97/LD, KO 180/LD, KP 68/D, KPR 68/D, KPZ-1 suitable for installation in passive houses and other spaces where are the requirements for air tightness.

The specific air permeability values are directly proportional to the quality of the building material used in which the boxes are mounted and the accuracy of the drilled holes.

Place of issue: Kolín
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