

DECLARATION OF PERFORMANCE

Nr. 23

1. Unique identification code of the product type:

Liapor Aggregate

Designation	Liapor 8-16/275	Liapor 4-8/350	Liapor 4-8/450	Liapor 4-8/600	Liapor 1-4/500	Liapor 1-4/625	Liapor 0-4(25)/475	Liapor 0-4(33)/500	Liapor 0-4(50)/525	Liapor 0-4(67)/550	Liapor 0-4(80)/575	Liapor 2-4/450	Liapor 0-2/575	Liapor 0-4D/500	Liapor 0-4M/310	Liapor 0-1D/650	Liapor 0-6D/450	Liapor 1-8D/350
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2. Intended use :

- Lightweight porous aggregate of expanded clay intended for the production of concrete, mortar, precast concrete and reinforced concrete components, ready-mixed concrete, vibro-pressed units, kerbstones, and paving blocks.
- Lightweight porous aggregate made from expanded clay for use in asphalt mixtures, surface treatments, lightweight embankment constructions, backfills and vaults, transition zones, bedding layers for slab structures, encasement of linear engineering structures and networks, bagged goods, both bound and unbound applications.

3. Manufacturer:

Liapor s.r.o.
Vintřov 176, 357 35 Vintřov CZ
IČO: 468 82 324

4. Authorized representative:

Has not been designated.

5. System of assessment and verification of constancy of performance:

2+

6. Harmonized standard:

- EN 13055-1:2002 Lightweight aggregates – Part 1: Lightweight aggregates for concrete, mortar and grout**
- EN 13055-2:2004 Lightweight aggregate– Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications**

Notified body:

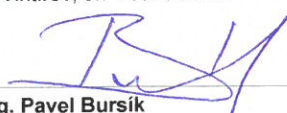
NB 1020, Technical and Test Institute for Construction Prague, s.p., Branch 0300 Plzeň, carried out the initial inspection of the manufacturing plant and the factory production control, assessed the production control system, and on 26 July 2019 issued the Certificate of Conformity of the Factory Production Control No. 1020-CPR-030028236. This certificate was first issued on 25 June 2004. NB 1020 carries out regular annual surveillance of the proper functioning of the factory production control system.

7. Declared characteristics:

refer to the attached CE Table in its latest version

The properties of the above-mentioned product are in conformity with the set of declared characteristics. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

In Vintřov, on 1 June 2025


Ing. Pavel Bursík
managing director


Ing. Marek Krössl
managing director



1020

Manufacturer: Liapor s.r.o. Vintřov 176, 357 35 Vintřov, Czech Republic, VAT: CZ46882324

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1020-CPR-030028236

Liapor aggregate

EN 13055-1:2002 Lightweight aggregates – Part 1: Lightweight aggregates for concrete, mortar and grout

EN 13055-2:2004 Lightweight aggregate– Part 2: Lightweight aggregates for bituminous mixtures and surface treatments and for unbound and bound applications

Table 1: Declared Characteristics

a) EN 13055-1: 2002 b) EN 13055-2: 2004	a b	a b	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Sort	Liapor 8-16/275	Liapor 4-8/350	Liapor 4-8/450	Liapor 4-8/600	Liapor 1-4/500	Liapor 1-4/625	Liapor 0-4(25)/475	Liapor 0-4(33)/500	Liapor 0-4(50)/525	Liapor 0-4(67)/550	Liapor 0-4(80)/575	Liapor 2-4/450	Liapor 0-2/575	Liapor 0-4D/500	Liapor 0-4M/310	Liapor 0-1D/650	Liapor 0-6D/450	Liapor 1-8D/350
Particle shape	Oval to spherical, enclosed grains													Crushed grains				
Particle size	8/16	4/8	4/8	4/8	0/4	0/4	0/4	0/4	0/4	0/4	0/4	2/4	0/2	0/4	0/4	0/1	0/6	1/8
Loose bulk density (kg/m³)	275	350	450	600	500	625	475	500	525	550	575	450	575	500	310	650	450	350
Loose bulk density range (%)	±15	±10	±15															
Particle density	575	700	850	1150	925	1050	875	925	975	1000	1025	850	1050	1250	900	1900	1000	900
Particle density range (%)	±15																	
Water absorption w _s (% hm., max)	3	3	2	2	2	2	2	2	2	2	2	2	2	5	5	5	2	3
Water absorption w ₃₀ (% hm., max)	6	5	4	4	4	4	4	4	3	3	3	4	3	5	5	5	3	4
Water absorption w ₆₀ (% hm., max)	7	7	5	5	5	5	5	5	4	4	4	5	4	5	5	5	4	5
Water absorption w ₁₂₀ (% hm., max)	9	8	6	6	6	6	6	6	5	5	5	6	5	5	5	5	4	5
Water content (mass %)	< 1,0																	
Compressive strength of aggregate (compacted; MPa, min)	0,6	1,2	1,7	4,2	3,0	4,2	2,3	3,0	3,4	3,7	3,8	2,1	4	-	-	-	-	-
Resistance to freezing and thawing (% of weight loose, max)	1,0																	
Alkali silica expansion reactivity, acc. ČSN 721179	dilatometrical test, stretch after 3 month < 0,05%, after 6 month < 0,1%																	
Chloride content (% m.)	< 0,02																	
Sulphate content (% m.)	< 0,8																	
Total sulphur content (% m.)	< 1,0																	
Chemical composition (% m.)	SiO ₂ 55 ± 5, Al ₂ O ₃ 24 ± 5, Fe ₂ O ₃ 14 ± 5, CaO 5 ± 5, trace elements 2 ± 2																	
Thermal conductivity (Wm ⁻¹ K ⁻¹)	0,09	0,10	0,11	0,14	0,11	0,11	0,11	0,11	0,11	0,12	0,12	0,11	0,12	0,12	0,10	0,15	0,15	0,14
Combustibility class	A1 (DIN 4102)																	
Radioactivity	F1 < 1 , F2 < 100 Bq / kg																	
Crashed grains ratio (% m.)	< 5													> 95				
Fines content (< 0,063 mm)	< 1,0													10 0,30	1 0,2	20 0,45	1 0,2	1 0,2

Table 2: Additional Information

Particle size distribution		Slump (%m.)										Middle min ; max							
Sives (mm)	0,25	3	-	-	-	2 0,10	5 0,25	2 0,7	2 0,10	3 0,12	4 0,14	5 0,15	-	2 0,10	30 10,50	2 0,5	55 35,85	5 0,12	5 0,10
	0,5	-	-	-	-	3 0,15	15 0,35	3 0,10	3 0,12	5 0,15	7 0,17	10 0,20	1 0,3	3 0,23	40 20,60	5 0,15	80 60,100	10 5,20	10 3,15
	1	-	-	-	-	10 0,30	25 5,45	5 0,15	10 0,20	20 10,30	25 15,35	30 20,40	1 0,5	25 5,45	50 30,70	10 0,30	99 90,100	15 7,25	15 5,25
	2	-	1 0,3	1 0,3	1 0,3	33 23,53	50 30,70	25 15,35	33 23,43	50 40,60	67 57,77	80 70,90	7 0,15	95 90,100	75 55,95	50 30,70	100 81,100	30 15,45	30 15,45
	3	-	3 0,5	3 0,5	3 0,20	70 50,90	70 50,90	60 50,70	70 55,80	77 67,87	85 75,95	90 80,100	50 30,70	100 95,100	90 70,100	91 81,100	-	55 35,75	40 25,50
	4	-	8 0,18	8 0,18	8 0,25	95 90,100	95 90,100	95 90,100	95 90,100	95 90,100	96 90,100	97 90,100	95 90,100	100 90,100	95 90,100	99 90,100	-	75 55,95	50 35,65
	5,6	5 0,7	50 30,70	40 20,60	55 35,75	95 95,100	98 90,100	98 90,100	98 90,100	99 95,100	99 95,100	99 95,100	100 95,100	-	97 90,100	100 92,100	-	90 80,100	65 50,80
	8	8 0,10	95 90,100	95 90,100	95 90,100	100	100	100	100	100	100	100	100	-	100	100	-	99 95,100	95 90,100
	11,2	60 40,80	99 95,100	99 90,100	99 90,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16	95 95,100	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22	99 95,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-