



## PERFATEN ATLANT **FALSE FLOOR**

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### GENERAL PROPERTIES

A false floor is one of the latest and most much-in-demand solutions in the construction engineering sector, an easy and effective way to construct robust flooring above the main floor in the building that is, as a rule, a concrete floor, and lay a variety of service lines within it, such as cables, cooling and fire extinguishing systems, water and air supply lines, etc., providing easy and quick access to them. Being lightweight, with a weight of 1 m<sup>2</sup> ranging from 22 to 56 kg, depending upon a specific material used, the system enables to construct false floors of a level required, with no considerable load being produced upon base and floor slabs, without affecting their load-bearing capability; the system also enables to easily and quickly transform premises, if customers decide to want something new or change their requirements.

### AREA OF APPLICATION

**Detachable false floors** are extensively used in multi-purpose centers, offices, hotel facilities, exhibition halls and centers, research departments, clean rooms, high-tech manufacturing sector.

**Non-detachable false floors** find the widest application in such premises as entrance groups, elevator lobbies, airports, storage facilities and unloading areas.

### FIRE SAFETY

Another parameter to be taken into account when selecting a false floor, is its fire safety. Our floor grades, depending upon a board type, range from G3 (flammability class 3) to NG (non-flammable) which enables to use them in inner spaces of any type, ranging from small non-occupied and unmanned areas to emergency exits. Side edges are made of special plastic material which, when exposed to high temperatures, foams and is welded to an adjoining edge. This prevents penetration of oxygen to a seat of fire and flame propagation. When designing our structures, we give special consideration to fire prevention and fire safety issues – use of high-quality steel and special processing enabled us to achieve stability indices ranging from F30 to F60.

### COMPLIANCE WITH ECOLOGICAL STANDARDS AND NORMS\*

The products are manufactured in strict adherence to the European ecological standards. PERFATENTM Eco false floor boards are made of chip boards with low content of formaldehydes and conform to Emission Class E1. On a special order, we can manufacture PERFATENTM Eco false floor boards with no formaldehydes (Emission Class E0).

The entire quality management system is **ISO 9001** certified.

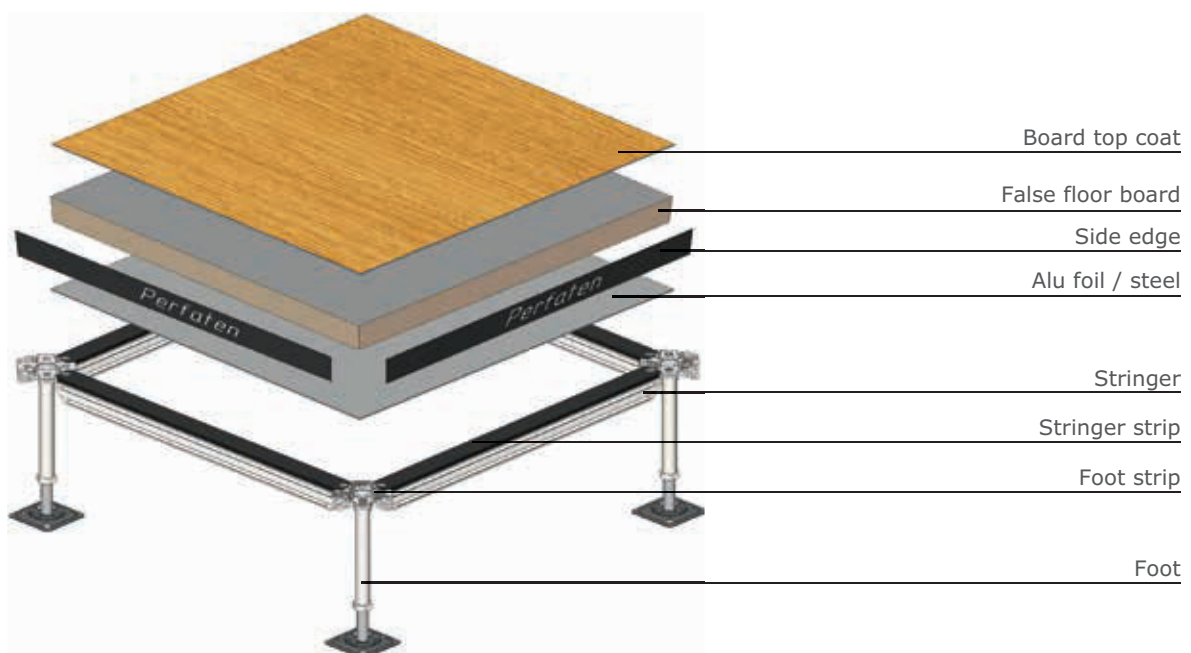
\*Certificates are attached hereto and can be read in the end of this document.

## PERFATEN ATLANT FALSE FLOOR

### FALSE FLOOR SYSTEM COMPONENTS

**PERFATEN** Atlant false floors consist of square-shaped boards (standard size: 600mm x 600 mm) and a supporting substructure they rest upon. Any element is factory-made, and high-precision machinery is used to ensure accurate and quick installation.

The supporting substructure is a system of feet which are in the corners of boards. Standard heights of feet manufactured by our company range from 75 to 1000 mm. At that, precise adjustment of height is enabled within the range from 26 mm to 140 mm which, during installation works, removes a necessity to align subflooring to a zero level. A higher load-bearing capacity is ensured due to use of high-quality steel and an original, well-structured design of feet.



### TYPES OF FALSE FLOORS

There are two types of the false floor systems: **detachable and non-detachable ones**.

With due consideration of wider functional capabilities, detachable false floors became more widely used. With this type, any board may be detached, regardless of its location and position within the system, so that one can get access to the space under the floor. This ensures more efficiency and easier maintenance.

**Non-detachable** boards are special-type tongue-and-groove boards for installation of which a special adhesive is used. This ensures excellent adhesion and waterproofness of the space under the floor. The boards are bonded to each other which provides for proper stability and high load-bearing capacity of the entire system. To get access to the space under the floor, one shall use special "windows". Upon installation, the false floor forms a perfectly smooth base upon which floor coatings of any type can be laid, including rolled materials, PVC, linoleum, carpet flooring, full-size parquet boards and laminates, ceramic and granite tiles, regardless of their geometry and size dimensions.

Waterproofness of the **non-detachable false floor** enables to use this without violation of its integrity in very humid environment. At that, this floor provides for perfect protection of service lines laid under it from adverse impact of humidity.

## TYPES OF BOARDS

### Atlant Eco

- Made of high-density chip boards
- Low emission of formaldehydes (E1 class)\*
- Excellent quality-price ratio

### Atlant Solid

- Calcium-sulfate boards with reinforcement fibers
- High density
- Flammability classification: non-flammable

### Atlant AirVent

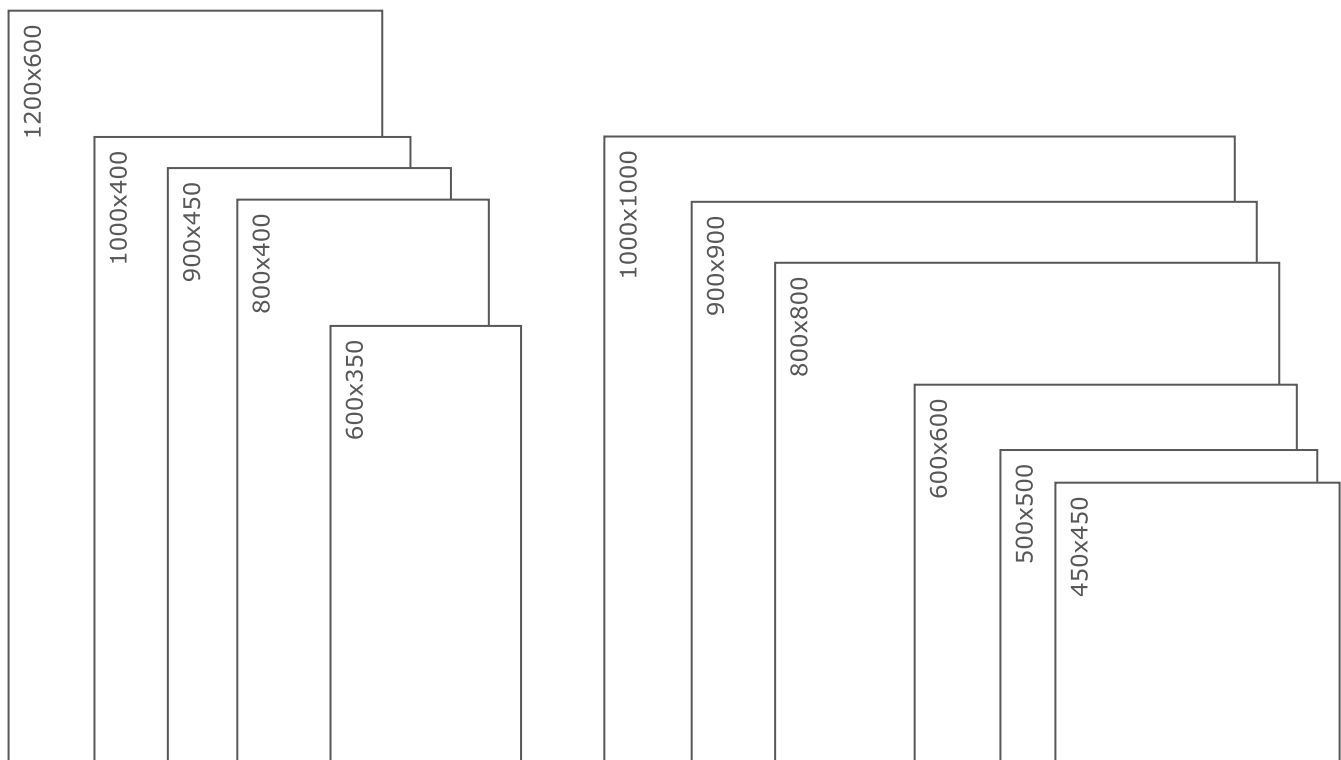
- Welded structure made of steel
- Powder coating or any other type of top coat of your choice
- Manufacture of airflow regulation boards is possible



Chip-board made false floors have become the most widely used, thanks to good quality and an affordable price.

The standard size is 600 / 600 mm, but our machinery enables to manufacture boards of non-standard sizes. Due to their fire hazard classes, ranging from G1 to G3, they maintain load-bearing capacity within maximum 30 minutes.

## UNIQUE BOARD SIZES



\*For manufacturing processes, we only use raw materials of top quality that comply with the highest emission standard. The lowest formaldehyde emission class is Class E1. According to this classification, 100 g board may contain maximum 10 g free formaldehyde. Emission of this amount is not dangerous to health. Wood-based boards of E1 are permitted to be used in all the western countries, Ukraine, Belarus and Russia for manufacture of furniture items and finishing premises. The formaldehyde low emission technology uses special additives to be added to adhesive compounds of boards. Chemically, these additives bind formaldehydes and prevent their evaporation into air.

**ADJUSTABLE SUPPORTING STRUCTURE\* (FEET) for PERFATEN ATLANT FALSE FLOOR**

ASP Group of Companies false floor feet are made of zinc-coated steel. They combine easy and accurate installation and high strength.

**Feet design**

1. Lower support 2 Upper support 3 Damping strip

**Materials:**

Tube: zinc-coated steel, outer diameter  $D = 20$  mm, wall thickness  $S = 2$  mm

Threaded stud: zinc-coated steel, M16x2

Upper flange: galvanized steel sheet, thickness  $S = 2,5$  mm

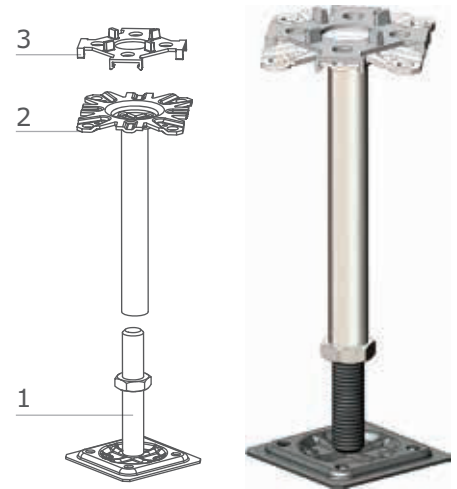
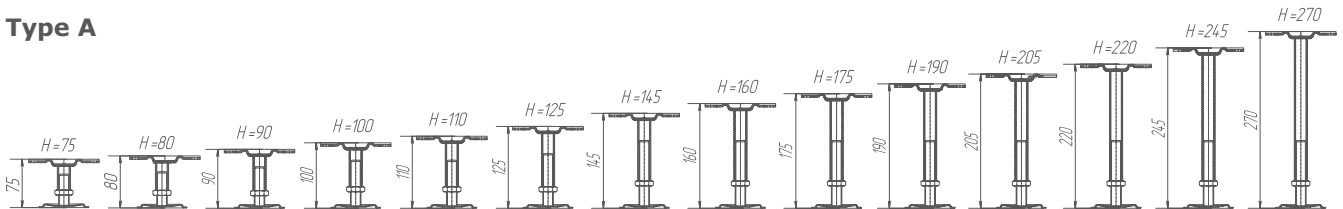
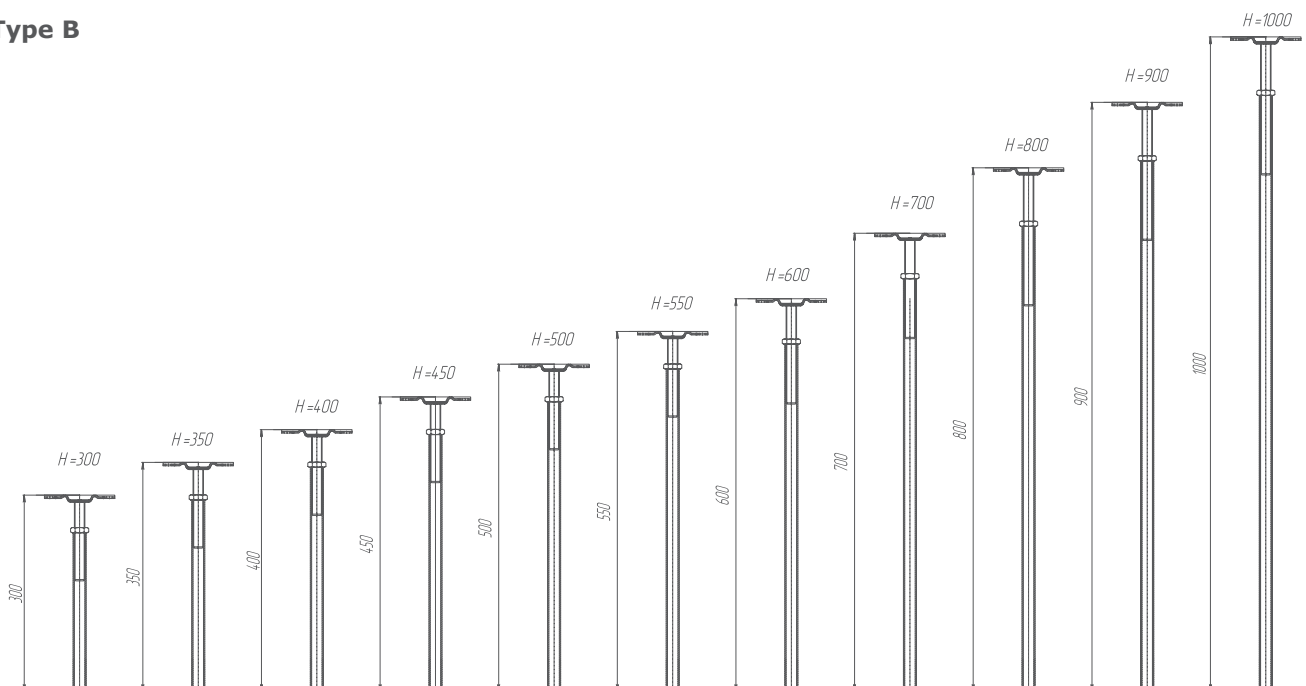
Lower flange: galvanized steel sheet, thickness  $S = 1,5$  mm

Upon request, we can manufacture feet M12.

**Technical specifications:**

Height: minimum height 75 mm, maximum height 1000 mm.

Size: upper horizontal support  $80 \times 80 \times 2,5$  mm; lower horizontal support of false floor foot  $76 \times 76 \times 1,5$  mm


**RANGE OF FEET SIZES**
**Type A**

**Type B**


### Parameters of series "S" adjustable supporting structure

№	Name	Adjustable supporting structure parameters			Feet parameter	
		Height nom, mm	Height min, mm	Height max, mm	Upper foot	Lower foot
1	POK75AS	75	65	85	TBA 42S	PHA 51S
2	POK80AS	80	68	91	TBA 44S	PHA 54S
3	POK90AS	90	75	101	TBA 52S	PHA 60S
4	POK100AS	100	85	115	TBA 56S	PHA 70S
5	POK110AS	110	89	125	TBA 66S	PHA 70S
6	POK125AS	125	104	145	TBA 81S	PHA 80S
7	POK145AS	145	115	175	TBA 92S	PHA 100S
8	POK160AS	160	130	190	TBA 107S	PHA 100S
9	POK175AS	175	145	205	TBA 122S	PHA 100S
10	POK190AS	190	160	220	TBA 137S	PHA 100S
11	POK205AS	205	175	235	TBA 152S	PHA 100S
12	POK220AS	220	190	250	TBA 167S	PHA 100S
13	POK245AS	245	215	275	TBA 192S	PHA 100S
14	POK270AS	270	240	300	TBA 217S	PHA 100S
15	POK300BS	300	267	333	PBB 120S	THB 239S
16	POK350BS	350	317	383	PBB 120S	THB 289S
17	POK400BS	400	367	433	PBB 120S	THB 339S
18	POK450BS	450	417	483	PBB 120S	THB 389S
19	POK500BS	500	467	533	PBB 120S	THB 439S
20	POK550BS	550	517	583	PBB 120S	THB 489S
21	POK600BS	600	550	650	PBB 150S	THB 527S
22	POK700BS	700	650	700	PBB 150S	THB 627S
23	POK800BS	800	730	870	PBB 200S	THB 707S
24	POK900BS	900	830	970	PBB 200S	THB 807S
25	POK1000BS	1000	930	1070	PBB 200S	THB 907S

### Example of identification

#### 1. Position No. 7:

POK 145 AS = adjustable supporting structure, Type "A", series "S", rated height H = 145 mm;

TBA 92 S = foot with tube, upper, type "A" (upper part – tube, lower part – threaded stud), series "S", tube length L = 92 mm

PHA 100S = threaded foot, lower, type "A" (upper part – tube, lower part – threaded stud), series "S", stub length L = 100 mm

#### 2. Position No. 16:

POK350BS = adjustable supporting structure, type "B", series "S", rated height H = 350 mm

PBB 120 S = threaded foot, upper, type "B" (upper part – threaded stud, lower part – tube), series "S", stud length L = 120 mm

THB 289S = foot with tube, type "B" (upper part – threaded stud, lower part – tube), series "S", tube length L = 289 mm

\* The adjustable supporting structure of the PERFATEN Atlant false floor is patented by the Federal Service for Intellectual Property and was entered into the State register of utility models of the Russian Federation on the 30th June 2015 (patent number 153649).