



# Otopeni - Romania

## Bucharest Henri Coanda International Airport

### Daten und Fakten

Unternehmen	PORR Construct SRL
Projektart	Flughafenbau
Bauzeit	08.2020 - 01.2021
Auftraggeber	National Company of Airports Bucharest

Projektbericht Online

[www.porr-group.com](http://www.porr-group.com)



# Smooth flight.

The runway pavement has been designed in accordance with the client's requirements and the applicable norms and aviation standards. The 45m-wide runway comes with a cross profile of 1.3 %, 7.5m shoulders and a 2.5 % slope. For computing the bearing strength of the pavement, a Pavement Classification Number (PCN for short) of 92 R/D/W/T had to be ensured.

The rehabilitation works consisted of milling of existing asphalt (28,600m<sup>2</sup>) and concrete layers (46,900m<sup>2</sup>) on variable depths, replacing damaged concrete slabs (6,500m<sup>3</sup>), recalibration and filling of joints (115,000m) along with the laying of asphalt mixtures (117,000t) and markings (16,000m<sup>2</sup>) in order to resume the runway functionality.

For the first time, PORR Construct used an automated screed control system for asphalt on airport pavements, improving both accuracy and productivity. Thus, the paving process used non-contact electronic guidance systems to guide the paver along the grade without the aid of string lines. Stringless paving allows for elimination of hubs, pins, sensors or wands, clamps, and string lines (wires, cables etc.).

The BIM team implemented this digitisation tool using the Trimble PCS900 Paving Control System and input data (3D models) generated in-house. The paving team was excited to switch from traditional survey and paving methods to 3D models and electronic guidance.

The initial duration provided for the execution of the works was eight months. Against the background of the substantial decrease of the traffic as a result of the COVID pandemic, PORR Construct managed to reduce the execution time to approximately five months.

## Technical data.

Runway length	3.5km
Markings	16.000m <sup>2</sup>
Built area	25ha
Asphalt	117,000t
Concrete	6,500m <sup>3</sup>
Ballast	78,000m <sup>3</sup>
Drainage channels	8,100m
Primary and secondary power cables	180,000m
Aeronautical beacons	1,753 pieces
Precision Approach Path Indicator	8 pieces

# Impressionen



## Bildhinweise

1

Runway at dawn.

The rehabilitated structure now shines in radiant new light of the aeronautical beacons.

3

Progress with precision.

PORR used an automated screed control system for asphalt on airport pavements, improving both accuracy and productivity.

2

Impressive view from above.

The 45m-wide runway comes with a cross profile of 1.3 %, 7.5m shoulders and a 2.5 % slope.

4

Ready for take-off.

PORR Construct managed to finish the work before schedule, in approximately five months.

Sie haben Fragen zum Projekt oder würden gerne mehr erfahren? Kontaktieren Sie uns gerne für weitere Informationen.

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