

## ACO Surface Water Management

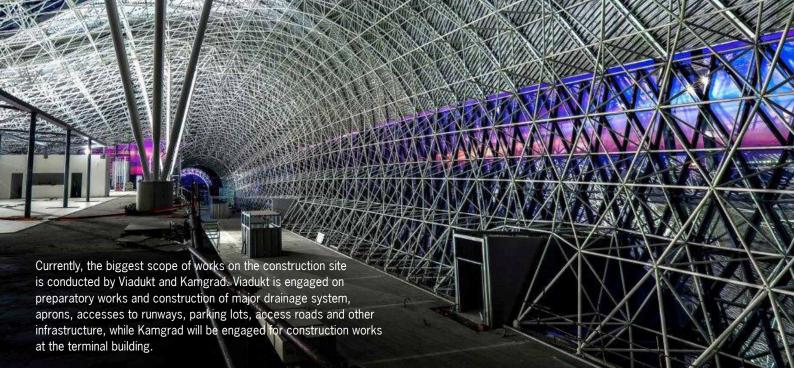


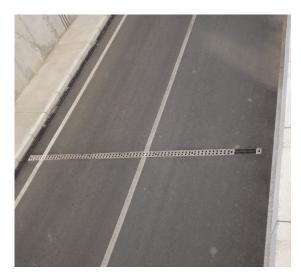
New terminal for 21st century

May 21st of 2014. - marked as the construction start of the new passenger terminal at the International airport of Zagreb (MZLZ). Once completed, the new terminal - scheduled to be delivered at the end of 2016 – will be capable of handling first 5 million then 8 million passengers annually, compared to the current capacity of 2 million passengers. The project comprises a total investment of 331 million EUR: 243 million EUR for the design and construction of the new terminal and 88 million EUR for the maintenance of the airport infrastructure over the entire period of the concession. The concession agreement includes the financing,

design and construction of a 65,000 sqm airport terminal to replace the current one, now at saturation point, as well as, operating the entire airport for until 2042; including the runways, the current passenger terminal during the entire construction period, the new terminal once it is completed, the cargo terminal, car parks and future property developments.







ACO has been involved right from the first scratch looking for a solution how to fulfil, at that time impossible requests beside the airport design team regarding the surface drainage management at the airside. Giving a technical solution to the engineers how to solve the drainage along the runway and taxiway was of crucial importance to get the entry in to the whole drainage solutions which we have managed to design and deliver successfully. With Qmax we got the opportunity to combine all the best characteristics given by the product and we have used the freedom in

design regarding the inlet. We designed a special Q-Slot inlet with telescopic function to achieve vertical adjustments to the existing ground level securing continues slope and variable Q-Slot inlet, fallowing the ground level deviations. The main challenge was to design the installation detail with Qmax without concreting, direct installed in to the ground and backfilled with fractions 0-32 of crushed stone with the aim to finish all works in a timeframe of 6 hours during the night from 0:00-06:00 AM when no traffic will be taken at the airside.







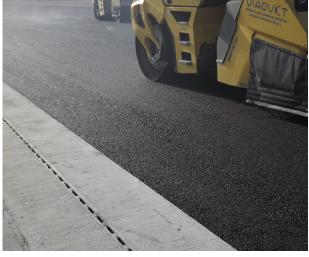


















After many trials in design and one trial installation at the ACO premises in Zagreb, with institutional supervised testing of the whole system we achieved the approval beside the main airport design/construction team. This activity's placed ACO in position being involved in design and delivery for all surface drainage solutions within the whole airport and finally also secured signing the contract with the main constructor Viadukt.



collect

## ACO products:

Omax 550 special Slot	8.136 m
Qmax 700 special Slot	3.244 m
Qmax 900 special Slot	2.200 m
Qmax 700, QFlow F 900	530 m
Qmax 900, QFlow F 900	<u>30 m</u>
Monoblock RD 300	170 m
Monoblock RD 200	251 m
Monoblock RD 150	<u>209 m</u>
Multiline V 150, C 250	2.370 m
Multiline V 150 Brickslot	227 m
Multiline V100 Flach, SS	<u>245 m</u>

<u>S 200 K</u>	<u>281 m</u>
Kerbdrain 480	<u>305 m</u>
Multitop BEGU covers,	
ø 600 mm, F 900	313 pcs
Multitop grate 500x500 mm	<u>9 pcs</u>
Secant covers, F 900	<u>38 pcs</u>
Combipoint 300x500 mm,	
<u>D 400</u>	<u>68 pcs</u>
SOLID TOP covers, SS	<u>15 pcs</u>
LIPUMAX P-B NS 7	1 pc
LIPUMAX P-B NS 10	<u>1 pc</u>

## **ACO reference**

PROJECT: Zagreb Airport INVESTOR: MZLZ CONTRACTOR: Viadukt d.d. DESIGN: Kincl arhitekti HYDRO PROJECT: IPZ d.d. YEAR OF CONSTRUCTION: 2014.-2017.

## ACO građevinski elementi d.o.o.

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