

Prestigious hotel 'The Londoner' chooses ACO

High performance bathroom, kitchen and leisure solutions



Being constructed in London's Leicester Square as part of the redevelopment of Leicester Square and the West End, 'The Londoner' hotel will comprise a new 350 bedroom luxury hotel and cinema complex which will include numerous bars and restaurants as well as swimming and leisure facilities.

THE PROJECT

Being developed for The Edwardian Hotel Group, The Londoner will extend eight storeys above ground and, in a first for the city, six storeys below, making it the deepest building in London. Designed to complement existing properties, the hotel will work as a series of independent but connected venues as well as operating as a venue for the hosting major film premieres, once the role of the Odeon Cinema which was previously located at the site. It's opening is scheduled for 2020.

THE BRIEF

ACO Building Drainage was approached by architects 'Woods Bagot' to provide a comprehensive range of drainage solutions for

the project: An engineered grease management system and drainage channel for the complex's commercial kitchens; shower channels for guest bedrooms, and channel for use in the swimming pool and leisure complex.

THE SOLUTION

A Grease Management & Kitchen Channel

A key challenge was the provision of a grease management system for the hotel's kitchen – a sizeable commercial kitchen which will produce around 1500 meals per day and which, unusually, is located six storeys below street level.

The ACO team had to develop a solution which could not only manage the waste fats, oils and grease (FOG) produced by such a sizeable

commercial kitchen operation but also pump separated FOG from six floors below ground back up to street level. To ensure the system worked, it was also critical to minimise the amount of pipework that was required.

ACO Building Drainage's technical design team specified a round 'ACO LipuJet' free-standing above-ground grease separator unit, ACO lifting station and related control boxes.

Certified to BS EN 1825, ACO LipuJet separators are designed for applications where free-standing grease separator units are required and are manufactured from high density polyethylene for maximum durability.

Certified to EN 12050, ACO Lifting Stations are specified when the grease separator is installed below the backflow level. Available in a range of sizes to suit different project requirements, the ACO Lifting Station comprises a twin pump system for improved system reliability. It also benefits from an energy-saving channel impeller on the pump to reduce blockages.

For The Londoner, an NS20 size ACO LipuJet separator – the largest in the ACO LipuJet range – was specified to ensure the system could cope with the requirements of the development's sizeable commercial kitchen.

To cope with the unusual project requirements, ACO's in-house technical team modified the ACO LipuJet unit by adding twin high capacity disposal points, mounted in series. The team also worked with the pipework designers by making recommendations to shorten the proposed pipe route and running flow rate calculations to ensure pipe network and the grease separation system would effectively pump fats, oils and grease up six storeys of the building.

To cope with the shallow slab depth construction, ACO Building Drainage specified ACO AS301 box channel for use in the hotel's commercial kitchens. Outlet pipes of up to 1.5 metres in length were also specified and unusually travelled through the slabs. Available with a choice of grating and manufactured from grade 304 or 316 stainless or galvanised steel, the ACO AS301 box channel linear drainage system could be easily engineered to suit the specific requirement of the project.

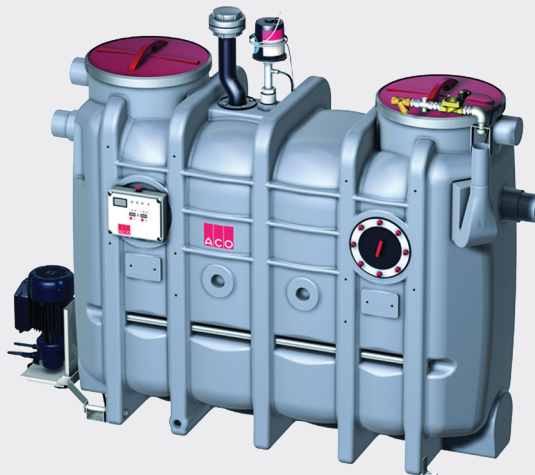
Shower Channel

ACO Building Drainage was required to specify shower channel for the hotel's 350 guest bedrooms, many of which benefit from two shower units. To cope with the construction's shallow slab depth, the team specified 'ACO ShowerDrain E' channel.

Designed specifically for use in shallow slab depth applications, the total installation height for ACO ShowerDrain E channel can be as low as 30mm.

The channel is manufactured from grade 304 stainless steel for optimum durability, is tested to EN 1253 1 and is supplied with sound insulation accessories, making it perfect for use in hotels and apartment complexes. The channel is supplied ready to install to ensure installation is a quick and easy process. It can also be provided in special lengths upon request.

ACO LipuJet



Swimming Pool Channels

ACO discrete twin slot channels were engineered for specified for use in the swimming pool and leisure areas. The specification of a twin slot channel design ensures that drainage of the pool surround areas will be independent of the deck level pool water recirculation drainage channel. With a 80mm installation height with mounting plate and 68mm without, the channels were ideally suited for use in the shallow slab construction while the channels discrete visual appearance complemented the design of the swimming pool and surrounding area.

FURTHER INFORMATION

For further information on ACO's range of grease management solutions visit **www.aco.co.uk/grease-management** Project-specific guidance can also be obtained by contacting ACO's in-house technical design team on **01462 810400**.

ACO Building Drainage

A division of ACO Technologies plc

ACO Business Centre,
Caxton Road,
Bedford,
Bedfordshire
MK41 0LF

Tel: **01462 810411**

www.aco.co.uk

ACO Building Drainage Contacts:

e-mail Customer Enquiries: abdccommercial@aco.co.uk

e-mail Technical: abdttechnical@aco.co.uk

ACO Water Management Contacts:

e-mail Sales: customersupport@aco.co.uk

e-mail Technical: technical@aco.co.uk

