

## Case Study - Transport Sector

# Terminal 5, Heathrow



### **Dor-O-Matic**

### **Martin Roberts**

Bomb blast resistant doors and steel doorsets used throughout the new Terminal

Heathrow Airport's new Terminal 5 is the UK's largest free standing building. Five times the size of Terminal 4, the £4.3 billion world class facility was designed by Richard Rogers Partnership and is light, innovative and spacious. A special feature are the floor to ceiling windows with panoramic views of the runways, aircraft and surrounding countryside.

#### **The Brief :**

Security formed a major part of the brief for Terminal 5 due to increased terrorism threat levels (such as the attempted car bombing at Glasgow Airport in June 2007) resulting in the Government's ongoing threat assessment level being classed as 'Severe' (i.e. an attack is highly likely). The challenge was to strike a balance between easy public access and high security.

#### **News Flash**

*Bomb rated sliding automatic doors, wire mesh gates and steel doorsets have been used throughout the new Terminal at Heathrow.*



### The Solution :

It was essential that the Terminal be as accessible as possible, to facilitate movement for the tens of millions of passengers using it every year, whilst providing necessary protection against terrorist attack.

As a result, Ingersoll Rand Security Technologies was chosen to supply a number of products to offer added security and protection. Dor-O-Matic bomb-rated automatic doors were specified and installed on all main entrances throughout the terminal building. Particularly designed for high risk areas, such as Government offices, transport hubs, public buildings, military establishments, financial institutions and other potential targets, the new Dor-O-Matic bomb-rated doors are the perfect solution for projects requiring a blast-resistant, secure, bi-parting automatic door system.

Manufactured to be similar in appearance and with the same access performance of the standard automatic door range, the bomb-rated doors can withstand the blast overpressures associated with a vehicle bomb and provide protection from high velocity shards of glass being projected into an occupied area. They are capable of withstanding the effect of 100kg TNT explosions at both 45m and 25m.

The testing was carried out in accordance with the US General Services Administration, International Standards Organisation and Bomb Blast Standards. Blast gauges were used to measure the blast pressure and the blast loading for each test. As a result, the range meets or exceeds GSA (C) and ISO EXV 45 and ISO EXV 25 standards.

In addition to bomb-blast doors, Martin Roberts fire & acoustic performance doorsets and stainless steel mesh gates were installed in customer interface areas, toilet blocks, stairwells and the multi-storey car parks. Martin Roberts steel doorsets are ideal for the transportation sector due to the demanding criteria set by high volumes of traffic and potential abuse. Steel doors were chosen for their combination of strength, durability and aesthetics providing innovative high performance door products for the various applications. Factory prepared to facilitate accurate and time-saving installation on site the doorsets are supplied complete with hardware sets and give the specifier maximum choice.

This large specification pulled together the complementary products which Ingersoll Rand Security Technologies has on offer to meet the diverse and different requirements of such a complex scheme.

### About us :

Our Security Technologies sector is a leading global provider of products and services that make environments safe, secure and productive. The sector's market-leading products include electronic and biometric access control systems, time and attendance and personnel scheduling systems, mechanical locks and portable security, door closers and exit devices, steel doors, automated openings and architectural hardware, together with technologies and services for global security markets.

Ingersoll Rand  
Security Technologies  
Bescot Crescent  
Walsall  
West Midlands WS1 4DL

01922 707400  
info@ingersollrand.co.uk  
www.security.ingersollrand.co.uk

