



Colt Project Portfolio 2012
Colt Group Limited

The Portfolio covers a selection of Colt projects from around the world which have been completed in recent months, or are nearing completion.

COLT SPAIN

FRONT COVER Photograph © Wigan Council

COLT UK

Wigan Joint Services, Wigan

Colt products: 1UL screening louvres, 2UL performance louvres, natural façade vents, perforated solar shading, bespoke steel dome, louvre doors.

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Mercada de la Ribera, Bilbao

This unique produce market was originally built in 1929 and covers 10,000 m², making it the largest indoor market in Europe. It is a completely open space with no columns inside and its illumination takes on special importance. The sunlight enters from above and filters through the floors, which are built in a translucent material, providing natural light throughout the building. Outside, the Mercado de la Ribera (riverbank market) has a variety of art deco ornamentation, combining windows, lattice windows, floral decorations and other decorative elements.

In the refurbishment of the market, Coltilite LWS natural louvred ventilators were installed into the façade. The Coltilite is a dual purpose ventilator providing both day to day and smoke ventilation, and was chosen for the Mercado because of the high technical specification, and to meet aesthetic considerations.

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COLT HOLLAND

Kaap Skil, Texel

Inspired by the traditional architecture on the island of Texel, Kaap Skil is the new name of the Maritime and Beachcombing Museum. The wooden façade is a good example of the time-hallowed tradition of recycling. The vertical wooden boards are made of sawn hardwood sheet-piling from the North Holland Canal and have been given a new life just like the objects in the museum collection. It covers 1,200 m², with a museum, exhibition spaces, offices and public areas.

Colt supplied a special horizontal Ellisse folding solar shading system for the doors.

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Photograph © Christian Richters

COLT NORWAY



Comfort Hotel, Oslo

This hotel is very conveniently situated near the new opera house and the railway station, in the very centre of Oslo.

Colt designed and manufactured a painted decorative architectural feature that completely envelops the Comfort Hotel on all four façades, complete with 57 manual Ellisse glass shutters. The Ellisse panels provide protection from the heat and glare of the sun, whilst providing seclusion to those inside the building.

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COLT GERMANY



Photograph © Stefano Schröter



Acer Europe AG, Switzerland

Acer specialises in fine mobile technology with a range of notebooks, netbooks, and tablets, as well as smartphones, monitors, projectors, and desktops.

Colt Shadoglass glass louvres and controls were specified for Acer's new office building in Bioggio, Lugano in the Canton of Ticino.

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The Koziernice Power Station, Koziernice

The Koziernice Power Station is a coal-fired thermal power station in Świerże Górne near Koziernice, Poland. It is Poland's second largest power station with an installed capacity of 2,820 MW. The power station has one 300-metre (980 ft) high flue gas stack, which is one of Poland's tallest free standing structures, and two 200-metre (660 ft) high flue gas stacks.

Colt was awarded the contract to supply Labyrinths for natural ventilation, EuroCO ventilators for smoke exhaust, and vertically installed EuroCO ventilators with external electric actuators for natural ventilation.

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COLT AUSTRALIA



SA Aquatic & Leisure Centre, Marion

This Aquatic & Leisure Centre is a new, state of the art aquatic and recreation facility, which aims to develop a stronger sports sector and encourage greater participation in sport. The main pool has been built to FINA standards (Federation Internationale de Natation) and is eligible to host national and international swimming events, including Olympic trials. Catering for all, including recreational swimmers, children and those with

disabilities, there are five pools, a health club, crèche, function rooms and catering outlets.

Colt supplied, installed and commissioned motorized 300mm horizontal Ellisse Solarfin shading louvres controlled via the Aquatic Centre's building management system, to provide natural ventilation as and when required. In addition, Colt supplied and installed PR100 performance louvre to the plant room enclosures.

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COLT SPAIN



Bilbao Arena and Sports Centre, Bilbao

This 20,000 seat professional basketball stadium and community sports centre in Miribilla, Bilbao is perched on a grassy outcrop, its veil of green painted steel 'leaves' hanging five metres beyond the world-class basketball arena inside. This

creates an exterior service zone - like the branches of a tree - for the building's accessible array of air-handling equipment. The central hall is also used for concerts and shows, and contains swimming pools and gymnasiums.

Colt installed 72 EuroMeteor natural ventilators for the extraction of smoke and heat, and won the order because of the high technical specification of the ventilators. They can also be used for day to day ventilation.

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COLT FRANCE

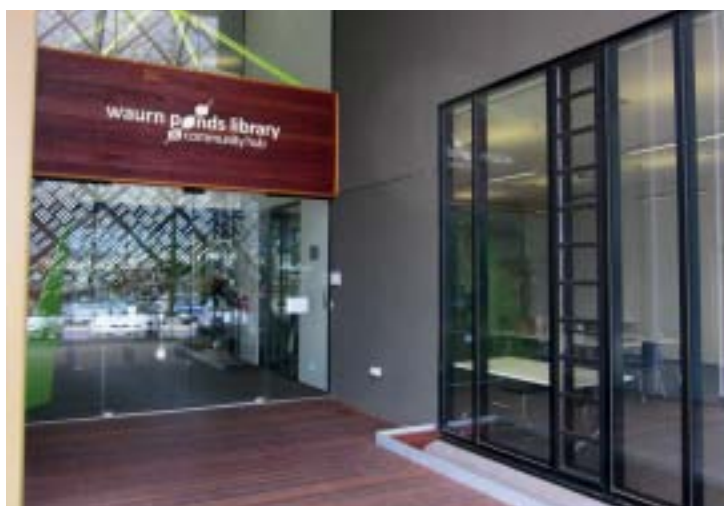


Colt France Aéroport Toulouse, Toulouse

Colt supplied a scheme of fixed horizontal louvred Shadoglass for solar shading, in a striking special colour glass to the new car park at Toulouse Airport.

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COLT AUSTRALIA



Waurn Ponds Library & Community Hub

Designed by Architects Whitefield McQueen Irwin Alsop, Waurn Ponds Library is a state of the art, award winning library and community centre within the City of Greater Geelong, Victoria. Black PPC Coltlite natural louvred double glazed ventilators with matching black insect mesh were installed for day to day ventilation and night time cooling to both levels of the 2 storey building.

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COLT CZECH REPUBLIC



CTPark, Brno

The CTPark Network is Central Europe's largest integrated system of strategically located build to lease business parks. First launched in 2005, CTPark Brno is home to a multitude of international companies employing a total of over 7,000 staff. In 2011, CTP launched Phase II of the project due to the rapid growth of long-term tenants, including Wistron Corporation,

which supplies information and communication technology products and services to leading companies worldwide. Within a year, around 100,000 m² of new buildings have been completed.

Colt supplied Coolstream 16 evaporative cooling units and Typhoon extract ventilators for climate control.

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COLT GERMANY



BKK ATU, Bergkirchen

BKK ATU offers public health insurance to more than 100,000 policyholders in Germany.

Colt designed a special Shadometal louvre system, with varying sizes of perforated louvre made in corrosion-resistant, extruded aluminium Z-shaped profiles and finished in red, orange, yellow and white, to enhance the architectural façade of the building and also provide natural ventilation.



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COLT HOLLAND



YES! Delft, Delft

YES! Delft - the Young Entrepreneurs Society – inspires, educates, coaches and supports students, professionals and researchers interested in starting a high-tech company or further developing an early stage high-tech company.

Colt Holland supplied 60 EuroCO and 12 FCO natural smoke and heat exhaust ventilators as well as rooflights.

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COLT AUSTRALIA



Central Tafe Campus, Perth

This technical and further education college occupies three modern campuses in the heart of the Perth Metropolitan area which are linked, with a further campus currently being refurbished. As one of Australia's largest training institutes, Central trains more than 29,000 students annually, including 1,300 international students.

Colt supplied a stainless steel box fin to the entrance of the Campus as a feature to part of the canopy.

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Woodvale Sports Hall, Perth

Woodvale Senior High School opened in 1985 and in 2011 changed its name to Woodvale Secondary College. Woodvale SC is widely recognised as being one of the best public schools in the state, and its goal is to encourage students to maximise their potential in a friendly and supportive environment. Their Mission Statement is to empower, challenge and support students to achieve their personal best and engage as responsible global citizens.

Colt was awarded the contract to supply PR100 controllable louvre for natural ventilation in the recently completed new Sports Hall.

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COLT AUSTRIA



Vienna International Airport, AT-Vienna/Schwechat Austrian Star Alliance Terminal

The Austrian Star Alliance Terminal at the airport is Austria's most advanced interface with the rest of the world. Almost all Star Alliance and Austrian Airlines flights will depart from the new terminal. This expansion of the airport into a third terminal offers

greater convenience and service for the passengers. Fire protection is essential in a building of this size, and Colt delivered and installed 620 linear metres of Smokemaster SM5 smoke curtains in the Pier area, and 1,200 linear metres in the Terminal.

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COLT BELGIUM



De Sterre, Ieper

This project was the renovation of an apartment building.

Colt Belgium was awarded the contract to provide the steelwork and special Ellisse sliding solar panels with fixed aluminium blades. The frames are made of flat aluminium strips with fixed rectangular louvres. For the terrace separations Colt used a double bank design which ensures complete privacy for the neighbouring terrace.

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COLT GERMANY



Landtag NRW, Dusseldorf

The building is the seat of the state parliament of North Rhine-Westphalia.

During the modernisation of the assembly hall, Colt installed 700 large Solarfin shading louvers to optimise the flow of light and heat energy into the building, offering a substantial saving with regards to energy costs on cooling during the summer months. The louvers are designed to follow the path of the sun, and are moved by a PIA control system.

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Photograph © Monika Fielitz

COLT NEW ZEALAND



The Hodge Sports Centre at Scots College

This stunning new Sports Centre is at the forefront of building technology, constructed out of translucent polycarbonate sheeting, allowing a high level of diffused natural light and thermal insulation, with timber beams to support the structure. Specialised cricketing turf covers the entire playing surface. There will also be a new clay practice wicket in the playing field.

Athfield Architects specified some of the latest technologies, including Colt triple bank 3UL louvre which provides excellent aerodynamic and rain defence properties. In areas where rain defence is less of a problem, the Colt Proteus 75 louvre has been installed. Colt PR75 is a single bank performance louvre system. All Colt products were installed by Colt Products and Systems, a division of Aquaheat New Zealand Limited.

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Shipton House, London

Shipton House is an Extra Care Housing scheme for older people run by the Peabody Trust which has recently been refurbished to a high standard to provide 13 assisted living units. The refurbishment of the units included the upgrading of services and building fabric to improve the energy efficiency.

Colt supplied a total of 39 Coltlite LWS of varying sizes in clear, blue, red, green, tangerine and yellow 'Vanceva' colour interlayer coloured glass. A variety of controls were also supplied, including manual and motorized units. This new glazed façade to the building encloses the existing balconies to form an unheated 'winter garden space', and has fundamentally changed the appearance of the building.

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COLT AUSTRALIA



Common Ground, Camperdown, Sydney

The Common Ground Camperdown Project was officially opened at the end of 2011 and will provide housing for long term homeless people in the inner-city region of Sydney. It is based on the successful Common Ground model from New York, providing permanent homes and on-site support services to help people achieve health and stability.

Colt LWS Coltlite louvres are installed as part of a controllable natural ventilation and smoke vent system.

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COLT HONG KONG



Cathay Pacific Air Cargo Terminal, Hong Kong International Airport

The new Cathay Pacific Cargo Terminal occupies a site area of about 10 hectares in the HK International Airport. The building construction is managed by a highly efficient Building Information Modelling (BIM) system.

Colt, through local agent FAS Engineering Limited, was awarded the contract to provide Colt EuroCO natural ventilators for fire and natural ventilation.

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COLT SINGAPORE



City Square Mall, Singapore

Describing itself as the leading eco-friendly family mall, City Square Mall is located at the junction of Serangoon and Kitchener Roads and sits on the site of Singapore's historic New World Park. Having close proximity to Little India, one of the Top 5 must-see tourist spots, it attracts both local and tourist shoppers.

With over 700,000 sq ft of gross retail space, spread over five retail levels, two basements and four levels of lifestyle services, it is home to over 200 tenants catering for the modern discerning consumer.

Colt provided a smoke control system with Smokemaster smoke curtains, motorized dampers and smoke extraction fans.

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COLT CZECH REPUBLIC



IKEA Praha, Černý Most

The reconstruction and extension of IKEA in Prague was a most prestigious project, and Colt Czech has supplied and installed the smoke and heat exhaust system, including the car park ventilation system. Colt products included Apollo extract ventilators, EuroCO natural louvred ventilators, Smokemaster SM5 smoke curtains, Cyclone 50N and Cyclone 100N low profile, high velocity induction fans to control air movement in the car parks.

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COLT SLOVAKIA



Aupark, Košice

There are Aupark Shopping Centres in a number of towns in Slovakia and the Czech Republic, all with large retail outlets, restaurants, leisure facilities and office facilities. The Aupark Košice has been built in the second largest city in Slovakia, close to the city centre in the 'Osloboditeľ'ov Square', which is

part of the historical centre of the city. Its prime location and good transport connections make it an important cultural and social gathering place.

Colt Slovakia was awarded the contract for WL Liberator and TL Liberator mechanical smoke extract ventilators,

Smokemaster smoke curtains and Cyclone induction fans to reduce levels of polluted air and to assist with the extraction of smoke in the event of a fire.

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University Hospital, Nitra

Nitra is a city in western Slovakia, situated at the foot of the Zobor Mountain in the valley of the river Nitra. With a population of over 83,000, it is the fifth largest city in Slovakia.

Colt Slovakia installed Colt Solar C solar shading to the University hospital in Nitra to reduce glare and overheating inside buildings by reflecting direct light. This not only makes conditions inside the building more comfortable for patients and staff, but also meets aesthetic requirements. The hospital houses

cardiology, neurology, internal medicine, laboratory X-ray departments and an ambulance station. This project was co-financed with European Union funding.

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COLT AUSTRALIA

Croydon Road Apartments, Croydon, Melbourne

Over 20 new residential town house apartments have been completed by builders Harris HMC in the town of Croydon, situated North East of Melbourne city, and Colt Australia provided a fixed solar shading system.

The Colt Sun Shelf has been designed and installed to reduce solar glare and prevent solar heat gain by using a simple external boxed shelf. It can be installed in either a horizontal or vertical configuration. The Colt Sun Shelf also provides a strong architectural feature.

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COLT HOLLAND



Gilde Opleidingen ROC Venray, Venray

Gilde Opleidingen is the Regional Education Centre for education in the North and Middle of Limburg. It is a centre which offers people the chance to develop themselves, and is adapted to the educational needs of this region. Positioned in an industrial area, the BRTA architects designed a building which would stand out of its environment.

Colt supplied EuroCO natural louvred ventilators for natural and smoke ventilation.

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COLT FRANCE



Solvay Electrolyse France, Tavaux

In 1863, Ernest Solvay patented a revolutionary ammonia-soda process for producing sodium carbonate which is still widely used today for glass, washing powder and flue gas cleaning. Today, Solvay is an international industrial Group active in sectors including chemicals, plastics and rhodia.

In the new plant in Tavaux, Colt supplied and installed a 30m Labyrinth natural louvered inlet and extract ventilator and FCO natural ventilators providing both day to day and smoke control ventilation.

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COLT GERMANY

ICP International Coffee Plaza, Hamburg

The area around the Sandtorkai in Hamburg's HafenCity has been the centre for the international coffee industry for over 100 years, and it is this tradition which gives rise to the name of this new office building. The office complex with its distinctive oval office tower has been equipped with a high-quality sunscreen façade using mobile glass plates, designed by Colt to stress the dynamic aesthetics of the building.

On behalf of the façade construction company, Rupert App GmbH & Co., Colt designed and installed the controls for the glass louvres, which are obscured by the façade. When all the louvres are in the closed position, they give the appearance of a very elegant, almost transparent second skin.

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COLT NEW ZEALAND



The Boyle Building, Grafton Campus, Faculty of Medical and Health Sciences, University Medical School, Auckland

The Grafton campus is dedicated to students doing courses in medicine, surgery, health sciences, pharmacy and nursing. The site was home to three villas but is now known as the Boyle Building following an \$88.7 million rebuild, resulting in a four-level building with two basement levels and a full-height atrium topped with the same plastic as that used over the new south stand at Eden Park in New Zealand.

Behind-the-scenes, \$34.7 million has been spent upgrading power supply to the faculty, installing new air conditioning systems, a new workshop, centralised wash and store areas and an upgraded server room.

Colt Products and Systems, a division of Aquaheat New Zealand Limited, has installed 360m² of Colt Proteus PR75 louvre to the plant room and other areas of the building. They have also supplied an induction car park ventilation system complete with a CFD report to satisfy local authorities.

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COLT NORWAY

Mongstad Refinery, Hordaland

The oil refinery at Mongstad in western Norway is a modern highly-upgraded plant with an annual capacity of 10 million tonnes of crude. It is the largest facility of its kind in Norway, and medium-sized in European terms. All crude oil refined at the plant comes from the Norwegian continental shelf. The principal outputs are petrol, diesel oil, jet fuel and other light petroleum products.

The refinery belongs to Mongstad Refining, which is owned 79% by Statoil and 21% by Shell.

Colt installed Firelight casement ventilators to provide both day to day and smoke ventilation. Colt was awarded the contract because the Firelight has high aerodynamic, acoustic and thermal performance, providing extract ventilation for most kinds of industrial and commercial buildings.

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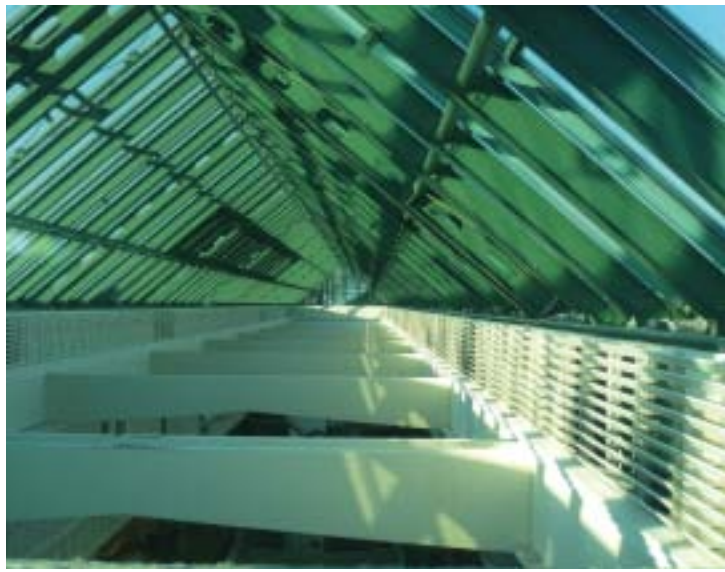


Meadowhall Shopping Centre, Sheffield

In the early 1990's Colt was involved in the original design of the smoke control system for Meadowhall Shopping Centre using Mk1 Kameleon smoke ventilators. As part of an ongoing upgrade of the Centre, the smoke control system has been redesigned by Colt to provide a mechanical extract system which reduces the amount of equipment needed, compared to the natural system provided by the Kameleons.

Colt won the order direct from the Shopping Centre (Meadowhall) for just over £1.9 million to provide the extract fans, inlet Seefire ventilators, controls and Universal Louvre internally to hide the fans.

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COLT CZECH REPUBLIC



Kyocera Solar Europe s.r.o., Kadaň

Following the rapid growth of the solar market in recent years, Kyocera has been continually increasing the production capacity of its cell and module manufacturing facilities across the globe. During 2011, the Corporation announced that it was starting construction of its second plant in Kadaň, Czech Republic.

The new facility will have an annual capacity of 360-megawatts (MW), combining with the existing Czech plant for a total of 560MW per year — the largest solar module assembly site in the Kyocera Group.

Colt Czech supplied both fixed Smokemaster SM-ST and SM5 automatic smoke curtains which prevent the movement of smoke and heat from one area to another.

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COLT BELGIUM



Denys NV, Wondelgem

During the renovation and expansion of the Denys NV building in Belgium, the architects used white vertical elements in the old façade to create a solar shading design for the new extension for both economic and aesthetic reasons. Colt was asked to come up with a special solar screen, and developed a bespoke Ellisse sliding panel made from aluminium frames. The panels respond automatically to the position of the sun and extend over 50% of the extended south façade of the building. The strong vertical alignment of the Ellisse panels form an abstract 'skirt' around the building.

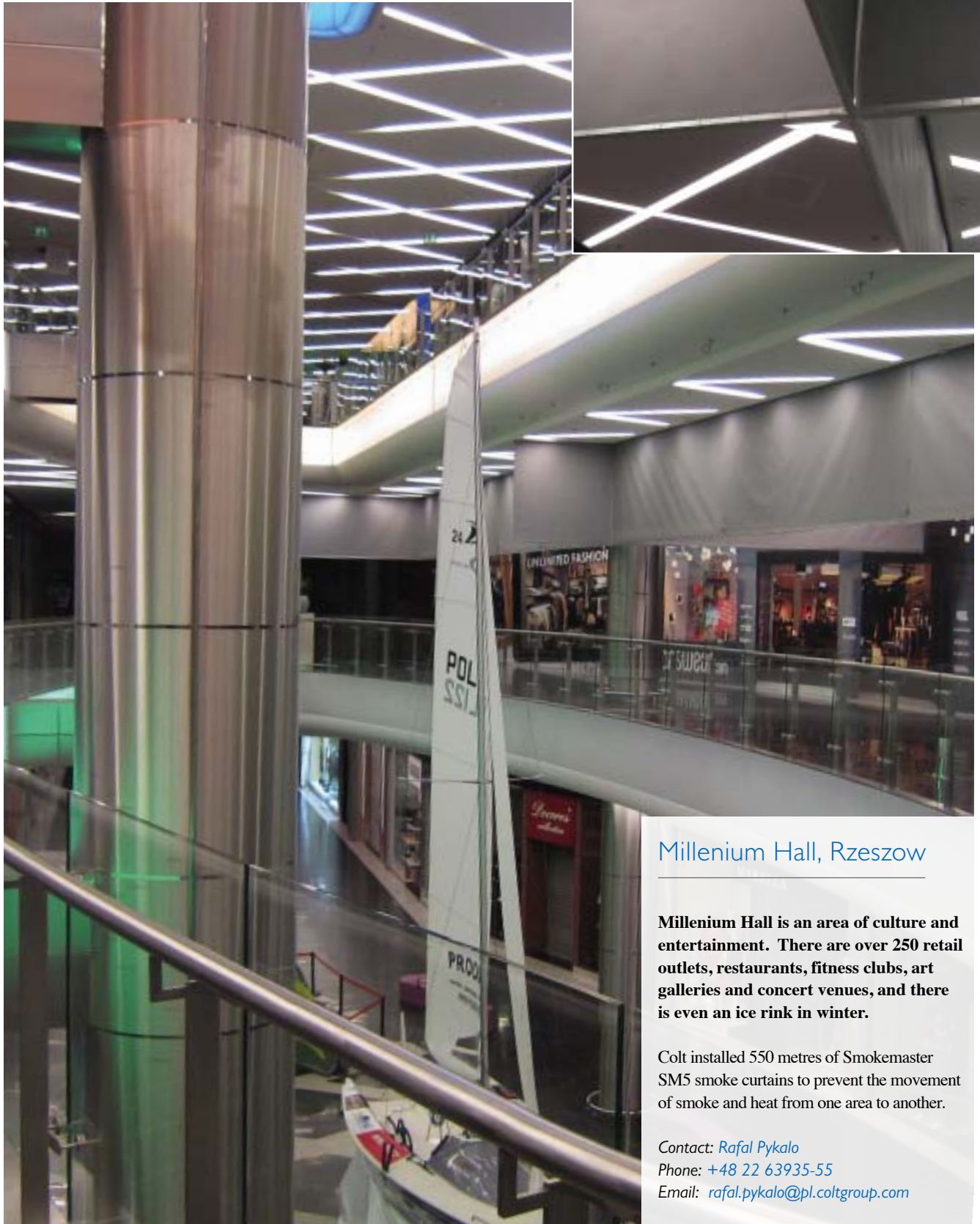
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COLT POLAND



Millenium Hall, Rzeszow

Millenium Hall is an area of culture and entertainment. There are over 250 retail outlets, restaurants, fitness clubs, art galleries and concert venues, and there is even an ice rink in winter.

Colt installed 550 metres of Smokemaster SM5 smoke curtains to prevent the movement of smoke and heat from one area to another.

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COLT SPAIN

Frontón de Miribilla, Bilbao

Designed by Estudio de Arquitectura y Urbanismo Javier Gaston, the project was conceived as a large solid compact mass of black slate, combining three different functions within this new building. Two of these functions are related to versions of Basque handball: a Fronton two-walled handball court, and Trinket court.

Colt Kameleon glazed natural ventilators were specified to provide smoke control and day-to-day ventilation. The Colt EuroCO natural louvered ventilator was also specified for smoke, heat and combustion fume exhaust, as well as for day to day ventilation and additional daylight.

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COLT HONG KONG



Tseung Kwan O Hospital, Tseung Kwan O

This project involves the construction of a new extension block at the existing hospital to cater for the increase in local population.

Colt, via local agent FAS Engineering Limited, won the contract to provide Universal Louvre for natural ventilation and weatherproof screening, and a special aesthetic screening for the curtain walling system.

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COLT AUSTRALIA

Centre for Early Education, Wendouree, Ballarat

Designed by Melbourne architects, McIlldowie Partners and constructed by local builders S J Weir, The Centre for Early Education (CEED) at Ballarat Grammar School, Wendouree was completed in July 2012. Part of the design was to offer a fully natural ventilated solution using Colt single glazed, double glazed and metal insulated louvres from the Colflite range of operable louvres. Each ventilator

is controlled via the main BMS system via discrete 230v motors opening the louvres for day to day ventilation and smoke control in the event of a fire.

Colt also supplied and installed PR100 single bank rain defence louvres to the plant room.

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COLT NORWAY

Nurses School, University College, Oslo

Oslo University College (OUC) is the largest state university college in Norway with more than 11,000 students and approximately 1,100 employees. OUC offers the broadest portfolio of professional studies available in Norway. OUC was established in 1994, and then merged with Akershus University College to become the Oslo and Akershus University College of Applied Sciences in 2011.

Colt supplied motorised Ellisse panels to provide protection from the heat and glare of the sun, whilst providing privacy to those inside the building.

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National Indoor Sports Arena & Sir Chris Hoy Velodrome, Glasgow

This indoor arena and velodrome was officially opened in October 2012, having been built for the 2014 Commonwealth Games. The indoor arena will have a capacity of 5,000 spectators, and the velodrome up to 4,000 seated spectators during the Games. Situated opposite Celtic Park in the east end of Glasgow, the complex will become the headquarters of Sportscotland and Scottish Cycling.

Coltlite louvred ventilators have been positioned at roof level and at the entrance level to provide day to day ventilation, and Meteor pneumatically controlled smoke vents are positioned on the roof. Various Colt 2UL/SH louvres and doors are also installed around the buildings for screening and ventilation.

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COLT CHINA

Taiwan Business Association (TBA) Tower, Dongguan

The TBA Tower is located in Dongguan City, China and has 68 floors, covering an area of 280,000 m². It is 289 meters high and is currently the tallest building in Dongguan City. The building comprises offices, hotel, restaurants and retail, and employs green building technologies using local materials and resources such as natural ventilation, high-performance Low-E glass, ice thermal storage technology, etc. It has received LEED-CS gold certification.

Colt China provided 1,400 m² 2UL/SH louvre through the curtain wall contractors, Shenyang Yuanda Aluminium Industry Engineering Co.

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COLT GERMANY / COLT LÖRRACH



Volketswil Trade Centre, Switzerland

Volketswil is a municipality in the canton of Zürich in Switzerland.

The requirements for the solar shading system on the Trade Centre included a thermally separated façade over five floors with a post bolt construction as well as a superior glass louvre system. The main façade was built by a Colt partner using a Schüco system, and the external system with the floor to ceiling freed leaded glass plates was designed by Colt Lörrach. Colt was also responsible for the installation.

The louvres are continuously rotated through 90° according to the position of the sun, and can also be adjusted manually. The louvres consist of laminated safety glass with a solar protection coating.

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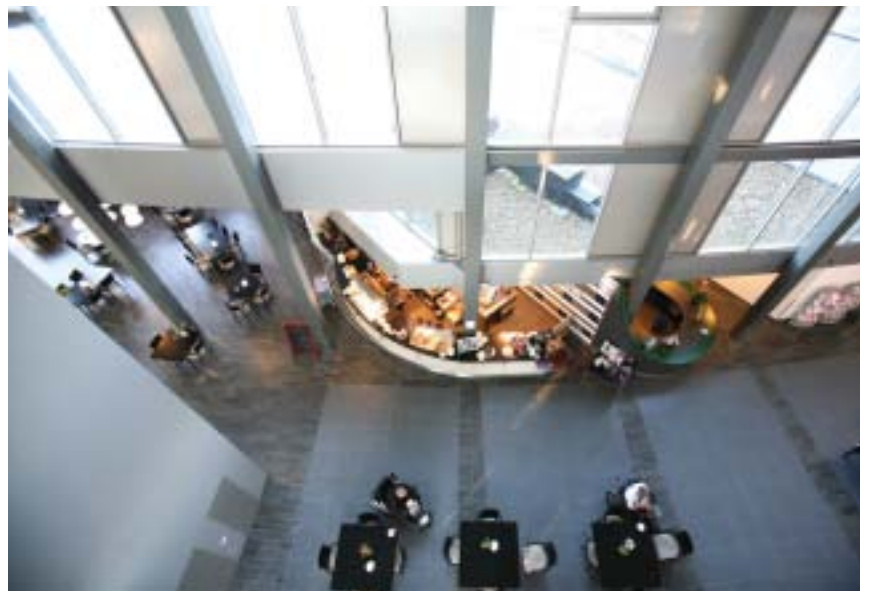
COLT HOLLAND



Verzorgingstehuis Sutfene, Zutphen

The Sutfene Foundation is a service organization with more than 1,000 employees and 500 volunteers, providing an extensive range of home care services, and also some residential care facilities. They operate from several locations in Holland, and for their facility in Zutphen, Colt Holland supplied certified powered smoke and heat exhaust ventilators, axial fans and EuroCO natural louvred ventilators.

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Consolidated Forensics Laboratory (CFL), Washington DC

The new Consolidated Forensic Laboratory (CFL) in Washington, D.C. looks to become a model in forensic laboratory design and planning. The Laboratory combines DC's public safety forensic science and public health efforts into one state-of-the-art building designed to be certified as LEED Gold. The Laboratory allows the city to coordinate crime, public safety and health investigations, to help law enforcement solve crimes quickly and efficiently.

Colt designed and supplied 1,500 m² of Shadoglass LS2 solar shading louvres to the south elevation of the building. Architectural louvres offer high solar shading performance whilst providing minimum obstruction to the glass area, thereby maximizing daylight and enhancing the view to the outside.

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COLT FRANCE



Steelcase, Wisches

Steelcase design and manufacture architecture, furniture and technology products, including office chairs, desks, storage, and space divisions. As workplace experts, they help people have a better work experience by providing products, services and insights into the ways they work. They are dedicated to helping people to work more effectively and organisations to use space more efficiently.

Colt supplied and installed EuroCO, Weatherlite and FCO natural louvered ventilators.

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580 Hay Street, Perth

Located on the former Cinema City site on the corner of Hay and Barrack Streets is the new Equus complex offering quality, luxury apartments. Ideally situated in the centre of Perth, the apartments are just a stone's throw from the business district on Terrace Road, the best of Perth's cultural centres, the Swan River, and the Hay Street and Murray Street Malls with all the cafes and boutiques.

Colt provided pergolas on the balconies and the vertical box section extrusions for solar shading.

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COLT SPAIN



Santiago de Compostela Airport, Santiago de Compostela

This is one of three international airports in Galicia, Spain, and almost 2.5 million passengers passed through the airport in 2011. A new terminal building, situated next to the old terminal, was completed in late 2011 and will have the capacity to manage over 4 million passengers and more than 44,000 aircraft each year.

Colt designed, manufactured and installed a system to deal with the smoke and noise requirements, using 306 Firelight dual purpose ventilators for day to day and natural smoke ventilation, 54 Meteor natural flap ventilators which also allow the entry of natural daylight, and Smokemaster SM5 smoke curtains to prevent the movement of smoke and heat from one area to another.

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COLT HONG KONG



Tseung Kwan O Complex in Area 44, Tseung Kwan O

This is a government building consisting of various sports facilities and a community hall for public use. The building also accommodates offices for the Sai Kung district council. FAS Engineering installed high performance weatherproof Colt Universal Louvre for aesthetic cladding, and EuroCO smoke ventilators to satisfy the staircase safety requirements.

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COLT CZECH REPUBLIC



OC Futurum, Hradec Králové

Following its completion, the extension to the Futurum Group's Czech investment property, the Futurum Hradec Králové shopping centre, opened as scheduled in May 2012. The current occupancy rate for the whole shopping centre is 99 %.

Colt supplied a smoke and heat system for the car parking areas using FCO natural louvred ventilators, powered ventilators, CC-HT axial smoke exhaust fans, and Cyclone 100 high velocity induction fans and Jetstream 415 car park ventilators.

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COLT GERMANY

Kranhaus Nord 'Pandion Vista', Cologne

The north building of the three 'crane houses' has been converted into a luxury, exclusive apartment block with 133 apartments, and the two further buildings are now office buildings.

The designers had concerns over the challenging safety requirements for the higher level apartments where the open balconies provide a stylish private space, and which are the only means of escape in a fire. Having been consulted with regards to the fire protection arrangements, Colt installed a Smokemaster SM5 system, made with a 4mm silver glass fibre fabric with a special heat coating made of finely ground aluminium polymer. These smoke curtains can survive for 120 minutes at a temperature of 600°C without catching fire.

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COLT POLAND

Stölzle Częstochowa Sp. Z o.o., Stölzle

The headquarters of the Stölzle Glass Group are located in Austria, with other factories in Germany, England, Poland and the Czech Republic. Stölzle Częstochowa was acquired by the Group in 2001, and specializes in the production of colourless glass, using only high quality mineral resources for use in high class cosmetics, spirits and tableware.

Ten years after first acquiring the site, the Stölzle Glass Group decided to significantly enhance the production capacity of the plant by adding a second white flint glass furnace. This new furnace feeds 4 additional lines which will be dedicated to the production of high-end flint containers mainly for the international prestige & beauty markets.

Colt Poland was asked to provide a system to ensure effective heat exhaust and maintain inside temperature and humidity levels, and installed Labyrinth attenuated natural ventilators, and FCO ventilators.

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Quatermile, Edinburgh

Quatermile is the mixed use redevelopment of the 19-acre former Royal Infirmary of Edinburgh site, in Lauriston, Edinburgh, overlooking the Meadows. The scheme comprises a mixture of new build apartments, apartments converted from the hospital buildings, new build offices, affordable housing and retail/leisure uses. The old main hospital administration block and the three wings that faced onto the Meadows have been incorporated into the new development.

Colt Shaft mechanical shaft ventilation systems have been incorporated into the buildings, along with Universal Louvre, Colt EN Seefire natural ventilators, smoke fans, dampers and grilles, and controls.

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COLT HONG KONG



Hong Kong Sports Institute (HKSI)

The redevelopment of the HKSI includes a new multi-purpose sports hall, a new indoor Olympic swimming pool, a new rowing house and a multi-purpose building which accommodates the athletes' hostel and the offices of the HKSI management.

Colt, through FAS Engineering Limited, was awarded the contract to provide Colt Meteor smoke ventilators with integrated insulation for fire and natural ventilation. Universal Louvres were supplied to prevent excessive water ingress to the plant room, and an electrically operated solar system was also supplied to reduce heat gain and sun glare in the building.

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COLT NEW ZEALAND



The University of Otago Hunter Centre, Dunedin

The Hunter Centre is a popular study and meeting space for the University Medical School. The building is a 5 Green Star project representing New Zealand 'excellence' in design of a Green building, and has been designed to make most efficient use of energy, reflecting the sustainable use of resources. Its features include wood pellet boilers, rainwater harvesting and a real-time energy use display. The building won the Southern Architecture Awards for Public Architecture and for Sustainable Architecture.

Colt Products and Systems, a division of Aquaheat New Zealand Limited, was contracted to supply an architectural natural smoke glazed ventilation system which would provide both natural ventilation and smoke control, and Coltlite natural ventilators and certified smoke ventilators were specified extensively through this building.

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COLT AUSTRIA



Wacker Neuson, AT-Hörsching

The Wacker Neuson Group is a multinational company which develops, produces and sells light and compact innovative construction equipment and provides associated services. Founded in 1848, the family-owned company now has more than 40 affiliates, over 140 sales and service outlets and over 12,000 sales and service partners worldwide.

The new company building in Hörsching covers 160,000 m² and is the largest and most modern workshop in the Group.

Colt Austria won a major order for smoke control and natural daylighting for the new production area, using Apollo natural ventilators for day to day and smoke ventilation, and over 3,600 m² Cosmotron barrel vault rooflights for natural daylight.

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COLT GERMANY



Photographs © Monika Fieitz

Marthashof 'Urban Village'

Marthashof Urban Village creates an oasis of tranquility right in the heart of one of Berlin's most vibrant and colourful districts, comprising garden houses, penthouses and townhouses, surrounded by green spaces which represent around 30 percent of the total surface area. Ecological living is defined by geothermal energy which can be used to both heat and cool, with an additional wood-pellet heating system and rainwater recovery system, and the garden areas are maintained using rainwater that has been stored in underground cisterns.

The buildings are enveloped in a perforated façade which serves to visually emphasize the modern design. Colt manufactured a special folding sliding shutter system to provide solar protection for the residents and enhance the design aspects of the façade.

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COLT CHINA



Wrigley Guangzhou New Factory Phase I, Guangzhou City

The Wrigley Chewing Gum Company Ltd. manufactures chewing gum. The company is based in Guangzhou, China and operates as a subsidiary of Wm. Wrigley Jr. Company.

The Wrigley plant covers approximately 130,000 m², with a total construction area of 50,000 m² including a workshop, office building, power plant, spices storage, fire pump, waste water treatment station, guard room, walls and plant room. The plant will meet the growing demand for confectionery products in the China market and it will also be able to support other markets throughout Asia Pacific.

Colt China installed 1,360 m² 2UL/SH louvre, and 320 m² 1UL/SH louvre.

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COLT SINGAPORE



School of the Arts (SOTA), Singapore

The School of the Arts (SOTA) is Singapore's first national pre-tertiary specialised arts school to offer a 6-year unique integrated arts and academic curriculum for youths aged 13-18 years old. The School offers a dedicated development path for those who have interest and show early talent in the arts, providing a learning environment where both the artistic and academic potential can be realised.

Colt Singapore provided Meteor natural flap ventilators for both day to day and smoke ventilation, as well as the entry of natural daylight into the building.

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COLT AUSTRALIA



Revesby Workers' Car Park, Sydney

This project for Revesby Workers' Club covered supply and installation of vertical Colt Sun Shelf fins to the Western Deck Car Park.

The Colt system provides an aesthetically pleasing blue/white façade to the car park.

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COLT HOLLAND



C S Leiden Railway Station, Leiden

A master plan was drawn up for the transformation of the Leiden Central Station and the adjoining neglected land into a vibrant new high-density neighbourhood, forging a connection between the historic city centre to the South, and the Bio-Science district to the North. This was achieved by keeping low street façades, attractive street lighting, and retaining squares and green spaces. There are new houses, new workspaces for small enterprises, an extended shopping centre, cinema, and a new public transport hub.



Colt provided Smokemaster SM5 smoke curtains which prevent the movement of smoke and heat in the event of a fire, and EuroCO natural louvred ventilators for smoke control ventilation.

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COLT SPAIN



Instituto de la Grasa, Sevilla

The primary goal of Instituto de la Grasa is to contribute to the advancement of the Spanish food industry, and the experience of the Instituto in all aspects of olive oil production is well known over the world. Since the 1940's, the Instituto has worked on the development of new techniques for the identification and quantification of chemical compounds and some of these are now official standards of the EU.

These new offices are the headquarters of the Instituto de la Grasa in Sevilla and Colt worked with the architect to install a Shadoglass LS4 external glazed solar shading system which not only reduces solar heat gain, lowers air conditioning running costs, and lessens glare whilst maximising the use of natural daylight, but also provides an aesthetic finish to the building.

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THE COLT FOUNDATION

BACK COVER

COLT UK
King's Cross Station, London

Colt products: Colt EN Seefire automatic smoke ventilators.

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The Colt Foundation is a registered UK charity set up in 1978 by I J (Jack) O'Hea and members of his immediate family with a gift of shares in the Colt Group. The Foundation currently owns just over 22% of the company. The dividends from this share holding provide a significant part of the income of the Foundation, the remainder coming from listed share holdings.

Our main area of interest is to finance and encourage research into occupational and environmental health, especially seeking the causes of illnesses arising from conditions in the workplace. We have well-established links with the major national research departments specialising in this area, and the Foundation's funding has enabled an increasingly wide range of research to be carried out into many of the health issues which afflict those in the working environment. Over £800,000 was awarded in new grants in 2011.

One recent grant was to Professor Peter Robbins at the University of Oxford, who is looking at ways to improve the health of miners working at high altitudes in the Andes. Mining is a key industry for Chile and Peru, employing large numbers of people, and one of the aims of this study is to explore whether increasing the availability of iron in the body can help miners to work better in such extreme conditions, and limit some of the adverse effects caused by lack of oxygen.



A further recent grant was awarded to Professor John Barbur at City University London, looking at variability within human colour vision with consequences for occupational environments. Professor Barbur has already carried out such studies in the aviation industry and also London Underground, and is extending this to air traffic controllers and seafarers. He hopes to address concerns that the current standards in some occupational environments are too stringent.

Full details on the work of the Foundation are shown on our website: www.coltfoundation.org.uk or contact Jackie Douglas for further information on +44 23 9249 1400 or email: jackie.douglas@uk.coltgroup.com



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