

ICL APPROVED SUPPLIERS/COMPONENTS LIST

This components list is to be read in conjunction with the Imperial College Building Engineering Particular Requirements.

Where equal or approved items are used, approval is to be sought by way of an exception report.

Eurovent Certified products are preferred where available, where this is not the case an Exception Form is to be submitted stating the reasons to deviate from a certified product.

For lighting controls, see lighting section.

| PLANT ITEM | MANUFACTURER |
|---|---|
| Ventilation | |
| Air Handling Units | AHS Carrier ECE UK Flaktwoods Systemair |
| Attenuators | Acoustic Engineering Services UK Allaway Acoustics Caice IAC Sound Attenuators Trox |
| Air Compressors | ALMiG Atlas Copco |
| Fabric Ducting Socks | FabricAir KE Fibertec |
| Fans | Airflow Developments Flaktwoods Nuair (only for small systems & toilet extracts). <i>Packaged controls from manufacturer (Ecosmart) is <u>not</u> permitted.</i> Systemair Vent Axia |
| Filters | Camfil (High efficiency / low energy) |
| Fire Dampers and Fire & Smoke Dampers (BS EN 15650 and BS EN 1366-2) (see Fire Alarms and Life Safety Systems section for dampers control) | Actionair Advanced Air BSB Gilberts Trox |
| Fume Cupboards | Cleanair Romero |
| Fume Cupboard Control Panels | Schneider |
| Grilles and Diffusers | Gilberts Halton Trox Waterloo Air Products |
| HEPA Filters | Camfil Trox |
| HRU (Heat Recovery Unit) / MVHR (Mechanical Ventilation with Heat Recovery) | Daikin FlaktWoods SAV |
| LEV (Local Exhaust Ventilation) Arms | Nederman |
| LEV Fans | (See section on fans) Nederman (self-contained, recirculating units only) |
| LEV Hoods | Nederman |
| Smoke Control Dampers (BS EN 12101-8 and BS EN 1366-10) (see Fire Alarms and Life Safety Systems section for dampers control) | Actionair Advanced Air Trox |
| Staircore Smoke Extract Systems | Colt International UK |
| VAV (Variable Air Volume) / CAV (Constant Air Volume) Boxes | Motorised Air Products Trox Waterloo |
| Vacuum Pumps | Becker Elmo Rietschle (Gardner Denver) Nederman |
| VCDs (Volume Control Dampers) | Actionair BSB Trox Waterloo |
| Heating and Cooling | |
| Air Curtains | Biddle Envirotec Flaktwoods Thermoscreen |
| Boilers | Hamworthy Ideal Potterton Remeha |
| Chilled Beams | Frenger |

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| | Halton |
| | Trox |
| Chillers | Airdale Carrier Trane |
| Close Control Units | Airdale Denco |
| Differential Pressure Control Valve (DPCV) | Crane IMI Hydronic Engineering Oventrop |
| Dirt / Air Separator | Spirovent |
| DX (Direct Expansion) Units / VRV (Variable Refrigerant Volume) / VRF (Variable Refrigerant Flow) | Daikin Toshiba |
| Fan Coil Units (chilled and low temperature hot water) | Ability Carrier Diffusion Dunham-Bush |
| Humidifiers | Carel Condair Dri-Steem Munters |
| Plate Heat Exchangers | Alfa Laval SWEP |
| Pressurisation Units | Armstrong Grundfos Mikrofil (up to 7bar max) |
| Radiant Panels | Solray |
| Radiators | Contour LST Quinn Barlo Stelrad Zehnder |
| Side Stream Filtration | ENWA |
| Trench Heating | HCP Kampmann |
| TRVs (Thermostatic Radiator Valves) (only ranges where the TRV heads can be removed without draining the system for all manufacturers) | Crane Herz IMI Hydronic Engineering Oventrop |
| Water Services | |
| Booster Sets | Armstrong Grundfos KGN Pillinger Lowara (Xylem) |
| Cold Water Tanks | Balmoral Braithwaite Dewey Waters Nicholson Plastics |
| Local Water Boilers (Wall Mounted, Electric) (<u>not</u> instantaneous hot water tap) | Heatrae Sadia |
| Plate Heat Exchangers | McDonald Water Storage Ormandy Rycroft Stokvis |
| Common Mechanical Items | |
| Expansion Vessels | Armstrong Grundfos Mikrofil |
| Pumps | Armstrong Grundfos Lowara (Xylem) Wilo |
| Valves (e.g., commissioning, isolation, non-return, pressure-reducing, etc. and <u>not</u> control valves) | Crane Oventrop IMI Hydronic Engineering |
| Cable Management and Accessories | |
| BS4343 Socket Outlets | Legrand Mennekes MK |
| Cable Basket | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Cable Tray | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Decorative Socket Outlets | Legrand MK |
| Firestopping Solutions (or equal/ approved) | Legrand (EZ-Path) |
| IP Rated Socket Outlets | Legrand MK |
| Plastic Socket Outlets | Legrand |

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| | MK |
| PVC Conduit | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Metal Clad Connection Units | Legrand MK |
| Metal Clad Socket Outlets | Legrand MK |
| Metallic Trunking | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Non Metallic Compartment Trunking | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Steel Conduit | Legrand Marshall Trufflex Philip Grahame International Unitrunk |
| Lighting | |
| Light switches (Lighting accessories should match the sockets) | Legrand MK |
| Luminaires | Future Design JCC Philips Thorn Whitecroft |
| PIRs / PD | BEG EX-OR Thorn Whitecroft |
| Scene Plate and Controls | EX-OR Ligo |
| Mains Electrical | |
| HV and MV Switchgear | ABB Schneider |
| Transformer | ABB Schneider SEA |
| Low Voltage Switch Panels | ABB Alan Electrical Aquila Switchgear Ltd E&I ICW Power Majas Switchgear Ltd |
| UPS Systems | ABB AF switchgear Chloride Power Systems |
| Electrical Accessories | |
| ATS | ASCO Power Technologies ABB Eaton |
| DB Protection Devices | Eaton (Excluding all Memshield boards) Schneider |
| Distribution Boards | Eaton (Excluding all Memshield boards) Schneider Majas Switchgear Ltd |
| Industrial Plug Sockets | Legrand Electric Limited MK |
| Power Cables | AEI Cables Doncaster Cables Ptrrysmian |
| Rising Bus-Bar | Moeller Electric Schneider |
| Small Power (All accessories should match) | Legrand MK Electric |
| Surface mounted | Legrand MK Electric |
| Lightning Protection | |
| Lightning Protection | Dehn UK Furse |
| Fire Alarms and Life Safety Systems | |
| Aspirating Systems | Xtralis |
| Automated Door Operators | Erreka Record Dormakaba |

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| Disabled Refuge Systems | To Be Discussed with the Engineering Team |
| Fire Alarm Bells | Fulleon |
| Fire Alarm Control Panels | Advanced MX Pro5 Range (Apollo XP95 or Discovery Protocols) Analogue Addressable |
| Fire Alarm Detection Devices | Apollo |
| Fire Alarm Panels Conventional | Advanced Quickzone Range |
| Fire Alarm Sounders | Vimpex Fire Cryer Plus Range |
| Fire Damper Control | To be discussed with the Engineering Team |
| Fire Telephones | Baldwin Boxall Commend UK |
| Panic, Lone Worker and Man Down Alarms | To be discussed with ICL Safety and Engineering Team |
| Public Address System | Commend UK |
| Public Address Voice Alarm | Baldwin Boxall |
| Smoke Ventilation Extract Systems | Colt SE Controls |
| Vibrating Pagers | WASOL DeafWatch System |
| Security and Communication Systems | |
| Automated Barriers (Vehicle, Pedestrian) | Automotive Systems Dormakaba FAAC Frontier Pitts |
| CCTV Control (Management and Monitoring) | FLIR Latitude Enterprise Platform |
| CCTV IP Cameras | Bosch FLIR Visible Range (Special Applications Only - Please contact the ICL Fire and Security Engineer) AXIS (Special Applications Only - Please contact the ICL Fire and Security Engineer) |
| Intercoms - Networked | Commend UK |
| Intercoms - Stand Alone | BPT |
| Intruder Alarms | Galaxy G2 Series |
| Main Access Control (Software and Hardware) | Lenel•S2 |
| Secondary Access Control | ASSA ABLOY Aperio Online (Lenel•S2 Connected) |
| Standalone Access Control | Codelock CL5000 |
| BEMS (Trend Control system houses as ICL approved list) | |
| Network Interfaces (supplied by VRF manufacturer?) | Intensis North Realtime Sontay Synapsys |
| Steam/MPHW Valves | Honeywell Siemens |
| Switches and Sensors | Produal/Syxt Sense Sontay Titan (Pressure Sensors Only) Trend Control Systems (Temperature, CO ₂ , RH and air pressure only) |
| Control Valves and Actuators | Belimo Frese Siemens |
| Variable Speed Drives/Inverters | ABB Danfoss |

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