

SOLUTIONS FOR

EDUCATION BUILDINGS



POWERED BY SPECIALISTS

 **legrand**[®]

Global strength

built on local knowledge

Legrand transforms the spaces where people live, work and meet.

We're meeting the world's technological, social and environmental challenges by pursuing our purpose: to improve lives with electrical and digital infrastructures and connected solutions that are simple, innovative and sustainable.

Legrand in the UK and Ireland

We have been manufacturing in the UK since 1980 and our six manufacturing sites create mechanical, electrical, electronic and digital solutions. Around 80% of UK sales come from products manufactured in the UK.

With specialist sales people who have a thorough understanding of your industry and our team of engineers on the road to help with project management, commissioning, maintenance and any post-build challenges, we're with you every step of the way.



At Legrand we are committed to improving lives and this means creating a more sustainable world for everybody.

To achieve this, reducing our carbon footprint and developing a circular economy approach within our activities are our priorities. In addition, we are committed to promoting diversity and inclusion, while being a responsible business in our day-to-day relationships with all our stakeholders, especially our employees, customers and suppliers.



**CORPORATE SOCIAL
RESPONSIBILITY**
LEGRAND

SOLUTIONS

FOR EDUCATION BUILDINGS

Whether designing classrooms for primary education, creating inspirational halls of residence for students or ensuring systems are robust enough for demanding environments, we understand the complexities facing those in charge.

With an understanding of each of the varied spaces within an education building and knowledge of the relevant requirements, regulations and standards, we can provide advice and supporting resources throughout the duration of a project.

When working with Legrand you have access to a vast range of tried and tested solutions which answer the key considerations for today's education buildings:

- Sustainability
- Safety and security
- Comfort

SCIENCE LABS

- High performance computing solutions
- In-desk power

CLASSROOMS

- Floor boxes
- Steel perimeter trunking
- Lighting control systems

COMMON ROOMS

- Furniture power solutions

CEILINGS

- Cable tray
- Steel wire cable tray
- Cable ladder
- Cable trunking

SPORTS HALLS

- Lighting control systems
- Presence detectors
- Lighting busbar

LECTURE THEATRES

- Scene setting

CORRIDORS

- Fire stopping
- Emergency lighting monitoring
- Presence detectors
- IP66 floor boxes

PLANT ROOM

- Transformers
- Busbar
- Switchboards & protection devices
- UPS

SERVER ROOMS

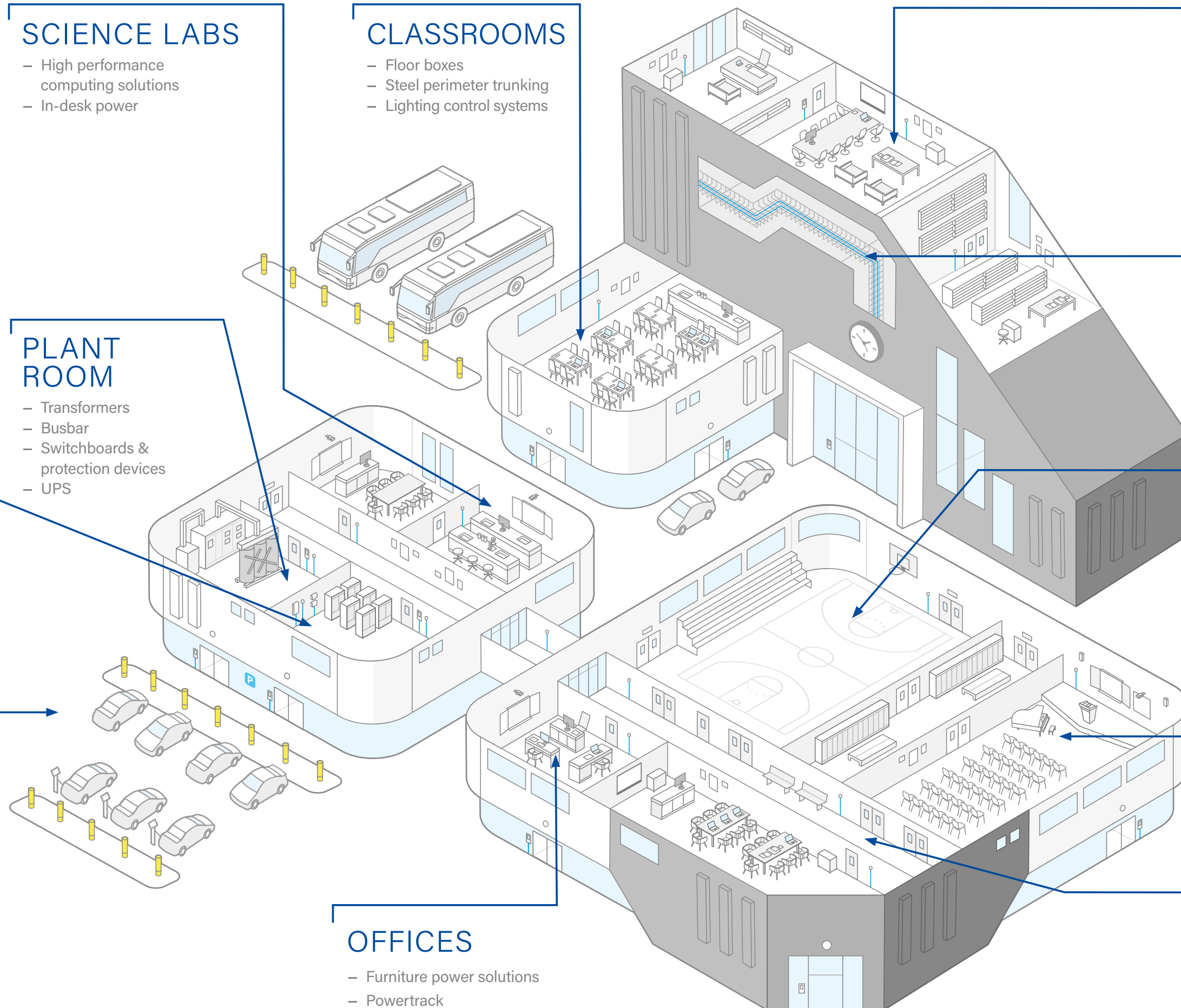
- PDU
- UPS
- Cooling solutions
- Racks & cabinets
- Busway

CAR PARKS & ENTRANCES

- Door entry
- Electric vehicle charging
- IP55 cable trunking

OFFICES

- Furniture power solutions
- Powertrack
- Micro data centres



KEY CONSIDERATIONS

SUSTAINABILITY

Installing energy efficient power systems and lighting controls can play a crucial role in meeting the sustainability requirements of any educational building – both now and in the future.

Critical power

If designing for a more sustainable building, plans should start with a power distribution system that is reliable, efficient and meets bespoke requirements. Here, selecting elements of a low voltage (LV) power distribution system from a single manufacturer can not only meet critical power needs and ensure compatibility but also meet sustainability objectives.

Lighting controls

Lighting controls also have a key role to play in reducing energy use. Controlling lighting with a presence detector, for example, can considerably reduce lighting energy costs dependent on occupancy behaviour and the amount of natural light available.

SAFETY & SECURITY

Whether it's fire stopping, emergency lighting or access to the building, there are many layers to safety and security which Legrand can support.

Fire safety

With high volumes of power and cable management required, EZ-Path fire stopping devices can be installed to provide fully compliant fire stopping for power and data cable pathways. Furthermore, the EZ-Path range has been designed to take into account that building needs evolve over time. Scenarios such as adding new cabling for IT equipment for classrooms or offices becomes a straightforward upgrade without having to break the cycle of compliance in terms of fire safety.

Emergency lighting

Ensuring corridors, stairwells and emergency exits are lit during an emergency or power outage is crucial to the safety of those in the building. Here, RAPID ELS – an emergency lighting management server – simplifies

the control of emergency lighting in buildings. Routine tests can be scheduled to be carried out automatically, ensuring all mandatory testing is completed and data is available when required.

Door entry

Before and after school clubs are growing in importance for education facilities, with schools extending their opening times. As such, there is a growing need to screen visitors and vehicles to huts and outbuildings. Legrand's Bticino door entry systems are easy to install and provide much needed control over building access outside of the normal school hours.

COMFORT

Enhancing the well-being of staff and students is a key issue for schools and other educational facilities. Electrical professionals have a role to play to ensure rooms are set up appropriately.

Correct levels of lighting

A well-lit room can provide a better environment to help people work more efficiently, as well as boost energy levels. There are a couple of options that can support schools, including the introduction of daylight harvesting. As well as maximising the use of natural light, daylight harvesting has energy saving properties, bringing multiple benefits to both the building and its pupils and staff.

Dimming

The effect of lighting on learning and welfare cannot be underestimated. The type of light, its intensity and how it is managed can be highly impactful on younger learners. Overly bright or flickering lights may create discomfort and disrupt restive periods while also hampering building efficiency. Switching and dimming photocells that turn lighting on or off when ambient light falls below or above certain levels could be crucial to maintaining consistent, non-disturbing illuminance levels.

INSPIRING FUTURES
THROUGH EXPERTISE IN

EDUCATION BUILDINGS

Educational facilities are an invaluable part of any community but as much as teaching continues to adapt, so do requirements. From ensuring staff and students are safe and providing a comfortable environment, to saving energy and running a sustainable facility, the challenges facing those who manage education facilities are vast.

Thanks to Legrand's knowledge and experience, our team is well placed to provide the solutions needed to support stakeholders and meet these challenges.

[A broad range backed by specialist expertise](#)



CABLE
MANAGEMENT



LIGHTING
CONTROL



DIGITAL
INFRASTRUCTURE



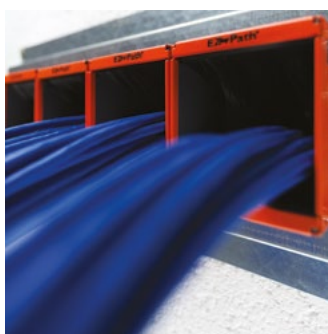
POWER
DISTRIBUTION



FURNITURE
POWER



FIRE
STOPPING



ELECTRIC VEHICLE
CHARGING



DOOR
ENTRY



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