



# TECHNICAL DATA

## NEXT GENERATION CORRIDOR®



# Next Generation Corridor



**Aisle containment is the solution to the challenges which data centres have been presented with since day one: the optimisation of cooling and energy-efficiency through the separation of hot and cold airflows.**

With the Next Generation Corridor, Legrand Data Center Solutions offers data centre managers and owners a 'future-proof' solution which offer the flexibility and modularity needed to be able to anticipate the dynamic of the modern day data centre. The Next Generation Corridor is the ultimate answer to the ever increasing demand for flexible and modular solutions. In the form of the Next Generation Corridor, Legrand Data Center Solutions lifts modular thinking and energy-efficient data centre design to a higher level. Important features of the Next Generation Corridor are:

## **Modularity**

Through the highly modular concept of the Next Generation Corridor, Legrand Data Center Solutions offers extensive possibilities to implement a Corridor solution in a phased and thus cost-efficient manner.

## **Flexibility**

Because of its modular design, the Next Generation Corridor is flexible and thus can be adapted to fit the specific building environment.

## **Ease of installation**

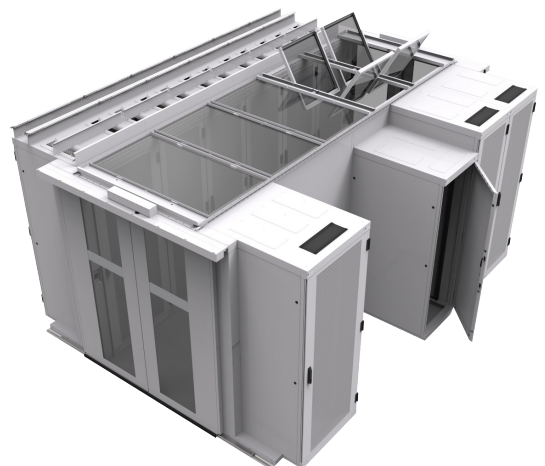
Modularity in the construction details ensure that the solution is easily and cost-efficiently installed.

## **Energy-efficiency**

With the Next Generation Corridor, Legrand Data Center Solutions offers a solution which is more energy-efficient than other Corridor-models on the market.

## **Optimal integration**

The Next Generation Corridor can be integrated with row-based cooling systems which bring cooling close to the heat source, but also with more traditional forms of cooling which require a raised floor. In addition, this concept offers plug & play integration with e.g. fire detection and suppression systems, monitoring sensors and access control.







#### Corridor – Standard

Aisle width	1200 mm
Standard row height	2000 / 2200 mm
Corridor length	Min. 800 mm
Colours	RAL 9011
Materials	Sheet metal – (layered) safety glass –
Working conditions	Max. 5 - 40°C / 20 – 80% RH
Standardisation	CE

#### Sliding door system – Self closing

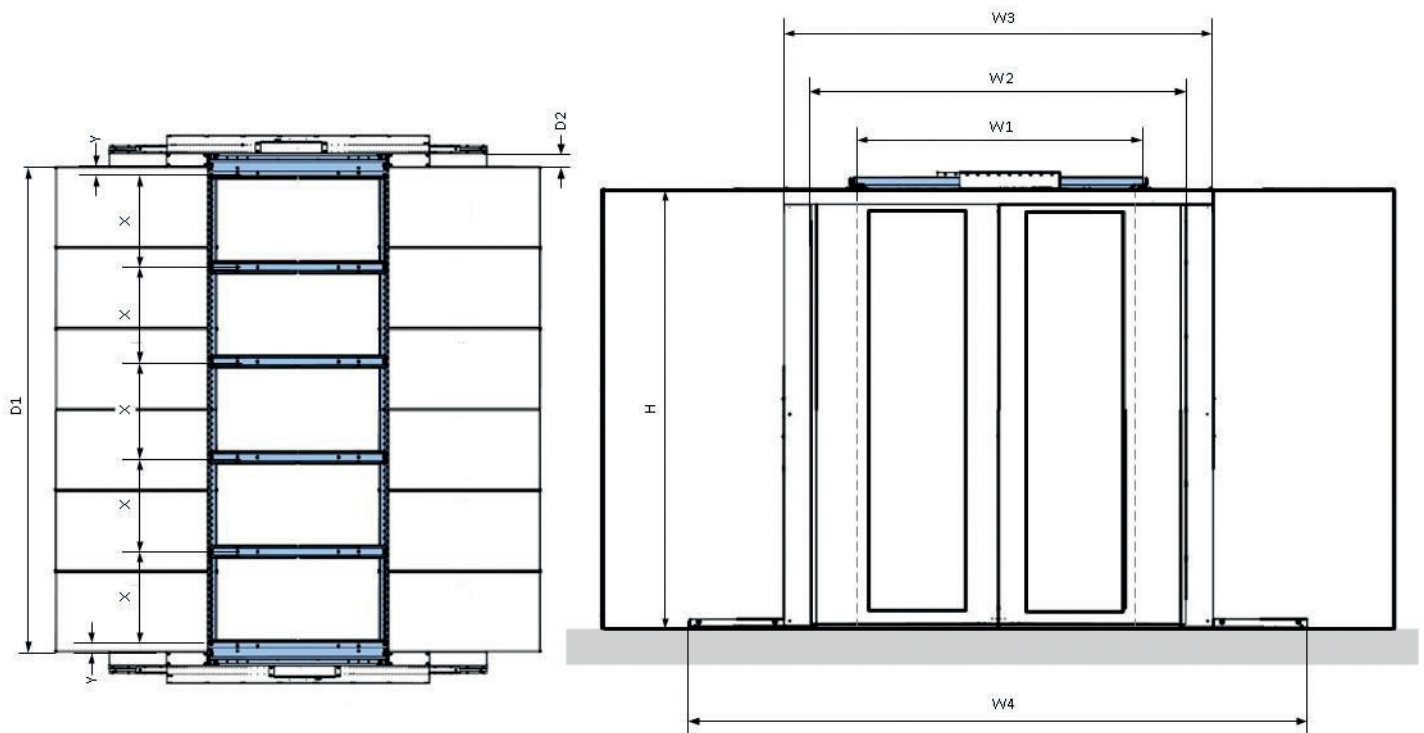
Door type	Double	
Clear door opening – 1200 mm aisle width	1000 mm	
Total width door (Closed)	1705 mm (Aisle width 1200 mm)	W2
Total width portal (optional)	1950 mm	W3
Total width guiding rails	2235 mm	W4
Door closing	Soft close	
Door synchronization	Yes	
Opening - outside	Manual	
Opening - inside	Manual	
Security	No lock	
Handles	Yes	
Mounting method	Mounting on LCS3 19" server cabinets or Minkels cabinets Bottom guide rails mounted on (raised) floor or the cabinet	
Portal	Optional	

#### Roof rail system

Rail lengths	250 / 500 / 1000 / 1500 / 2000 mm
Rails interconnected	Yes
Height adjustment	10 mm
Finishing	Finished with air tight seal

**Roof system - 'High Transparency'**

Aisle width	1200 mm	W1
Start panel - range	Flexible start/end panel, 100-175 mm	
Total system width - 1200 mm aisle width	1350 mm	
Roof panel depth	600 & 700 mm (pitch)	
Transparency	83%	
Roof segments - 1200 mm	1	
Weight/ segment	13,3 kg / segment	
Roof panel fixation	Yes - square key lock	
Panel material	Double layered safety glass	
Integration panel - Sensors	Optional	
Supporting sensors	VariControl-S	
Mounting sensors	Toolless	
Cable entries	2 x Ø 13.5 mm	
Integration panel - Fire extinguisher	Optional	
Pipe throughput	1 x Ø 35 mm - rubber grommet	
Mounting method	Fixation on independent roof rails	



W1 = Aisle width  
 W2 = Total door width (closed)  
 W3 = Total portal width  
 W4 = Total rail width  
 D1 = Corridor length  
 D2 = Portal depth  
 H = Height  
 X = Panel size  
 Y = Flexible start/end panel

# Drop Away Panels

ENSURE THE SEAMLESS INTEGRATION  
OF AISLE CONTAINMENT SOLUTIONS

with sprinkler or  
water mist systems

**Drop Away Panels are the response to the worldwide increased demand for security and safety solutions in data centres. They are specifically designed roof panels for aisle containment solutions. Drop Away Panels make it possible to use these corridors in combination with water fire extinguishing systems with sprinklers.**

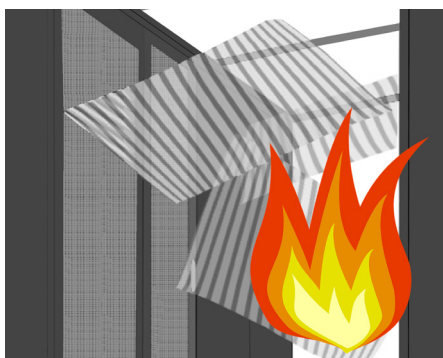
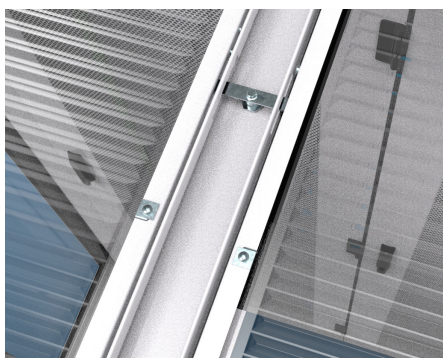
Drop Away Panels provide a seamless integration of aisle containment solutions with

sprinkler or water mist systems. In case of fire in the data centre, the plastic panels of the Drop Away Roof System automatically soften and drop down so that they won't be an obstacle before the sprinklers are activated. The system is specifically designed for sprinkler systems to extinguish at 74 degrees Celsius or higher. The Drop Away Panels therefore improve safety and reduce risks in the data centre. But at the same time, the aisle containment systems remain intact.

#### BENEFITS OF THE DROP AWAY PANELS

- Lightweight material: the panels do not cause any danger to people and equipment.
- The panels are suitable for Next Generation & Free Standing Corridor, and can also be used for retrofit.
- No height restriction: suitable for 2000 & 2200 mm high corridors.
- Drop Away Panels are available in standard width of 1200 mm.
- Extra safety-feature: the grounding of the metal framework construction.
- FM Approved





#### Roof system - 'Drop Away Panels'

Aisle width	1200
Start panel - range	Flexible start/end panel, 100-175 mm
Filling panels	Flexible filling panels, width 100 mm
Colours	RAL 9011
Total system width - 1200 mm aisle width	1350 mm
Roof panel depth	700 mm (pitch)
Transparency*	81,0 % Aisle width 1200 mm*
Roof segments - 1200 mm	1 Panel with 2 Drop Away Panels
Weight/segment	3,0 kg/segment
Roof panel fixation	Yes - square key lock
Roof panel earthing	Yes
Panel material	PVC - vinyl
Panel weight	0,16 kg
Integration panel - fire extinguisher	Not applicable
Pipe throughput	Not applicable
Mounting method	Fixation on independent roof rails
Certified	UL Ceiling Panels for use Beneath Sprinklers BLME.R4036
Approval	FM Approval Class Number: 4651

\* Transparency in % depending on total length Next Generation Corridor by the use of the filling panels

ENERGY-EFFICIENT

# Led Tubes

deliver improved visibility  
in data centres,

providing a safer and healthier  
working environment

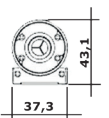
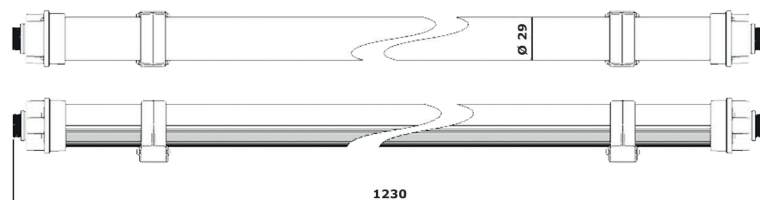
## MAIN FEATURES

- **Energy efficiency** – LEDs (Light Emitting Diodes) are small, solid lamps, highly energy-efficient and with an extremely long service life.
- **Safety guarantee** – Official IEC 62471:2006 certification means that this product complies with the most stringent safety requirements in the area of eye protection.
- **Powerful illumination** – 335 lux, delivering optimal working conditions in accordance with standard EN12464-1.
- **Simple installation** – Installing a LED Tube is simplicity itself thanks to the clever magnetic attachment system.
- **Flexibility** – Suitable for a wide range of rack formats and Corridor layouts, with options to rotate the installation position.
- **Integrated lighting** – The recesses for the LEDs, the connection cables and the small cover caps to conceal the cables give these units the appearance of a unified whole.

**Safety certification to the highest level, IEC 62471:2006, offers the user a guarantee of exceptional eye protection. These LED Tubes are optimised for the Next Generation Corridors.**

The LED Tubes are exceptionally easy to install. With highly adjustable suspension points a Corridor can be fitted out with LED lighting in no time. And once fitted the LED Tube continues to offer outstanding flexibility. The option to rotate the tubes means that the illumination can be directed towards specific items of equipment. The high light intensity and energy efficiency of the LED

Tubes makes them just the thing for Next Generation Corridors. These LED Tubes provide greatly improved visibility, particularly where black racks are used. The LED Tubes can easily be expanded using extension cables: these are then concealed with neat cover caps so that the unit forms an attractive whole. Each LED Tube can be fitted with a motion sensor, allowing the lamps to switch off automatically if no movement has been detected for a specified period, a functionality that further underlines the energy-efficiency of this lighting solution for data centres.

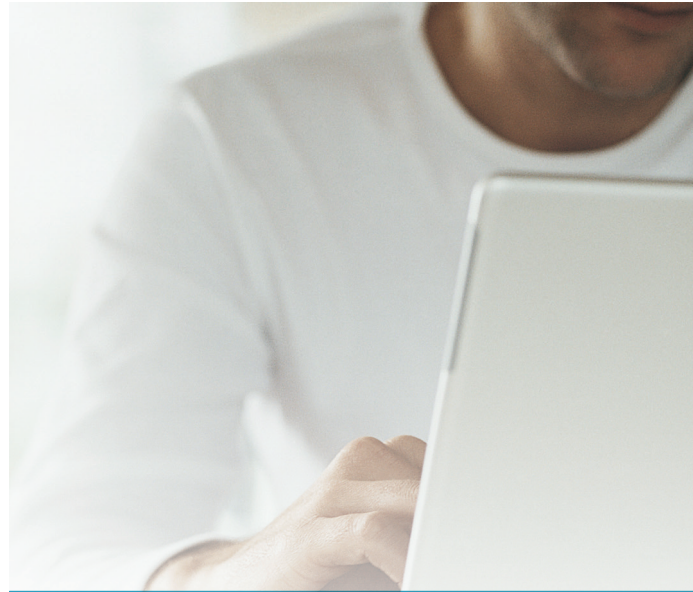






LED lighting – Next Generation Corridor	
<b>Dimensions</b>	
Length	1200 mm
Height	43,1 mm
Width	37,3 mm
Diameter	37 mm
LED tube diameter	29 mm
Lamp material	Polycarbonate PC-ABS
Mounting clamp material	Anodised aluminium
Weight of LED tube	505 g
Variants	With PIR sensor Without PIR sensor
Lux	Average 335 Lux
Energy class	A+
Colour temperature in Kelvin	5000°K
Colour rendering (CRI)	80
Dimmable	No
Angle of illumination	130°
Adjustable angle of illumination	Yes, with rotating LED Tube
Operating conditions for LED tube	Max. -20°C - 40°C
Storage temperature	Max. -40°C - 60°C
IP value of fitting	IP21
Impact resistance of fitting	IK08
Max. service hours of LED lamp	35,000 hours
Input voltage	230 VAC/single phase/50 Hz
Current consumption in Watts	20 W
Circuit board (PCB)	FR 4
Serial connection of LED Tubes	Yes, using 10cm Male/Female LED Tube connector power cable.
Maximal length of serially connected LED Tubes	50 metres in series from a single supply point
Location of LED Tubes in Corridors	Left and right side of corridor. Each side is fed separately
Connection	C14/LED Tube connector – standard 4.0m cable length
Installation method	Attachment to joists using flexible, sliding N50 magnets
Corridor roof configuration*	Compatible with Next Generation roof structure
Quality mark	CE
In accordance with Directives	Directive 2004/108/CE Directive 2006/95/CE Directive RoHs 2011/65/EU Directive WEEE 2012/19/EU Directive 2012/874/EU
Standards	EN62471 EN12464-1





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