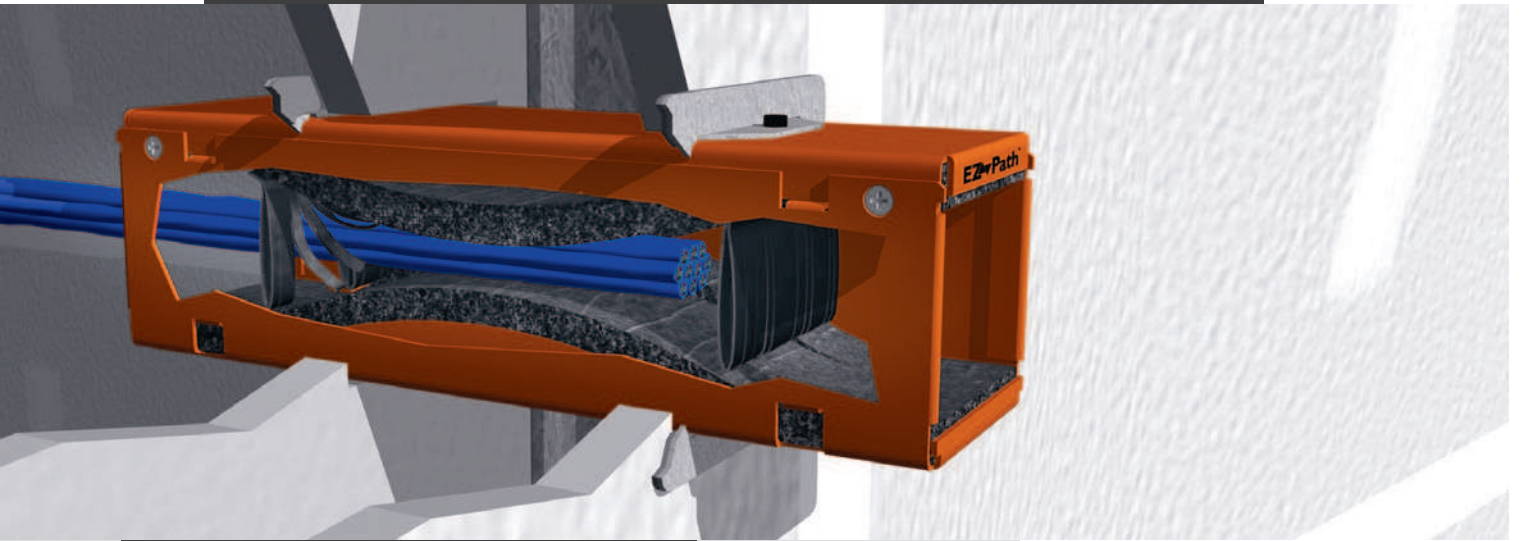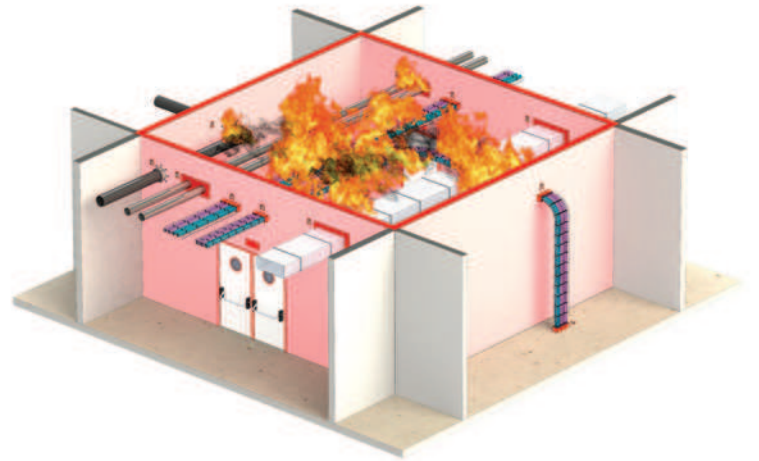# EZ-PATH

FIRE STOPPING DEVICES

legrand®

UNDERSTANDING PASSIVE FIRE PROTECTION

Passive fire protection, or containment, refers to products or methods which slow or prevent the spread of fire. This needs to be built into a building's fire protection scheme along with detection (systems that detect fire) and suppression (systems that extinguish or prevent the spread of fire).

Fire rated walls and floors, which contain fire, can lose their resistance once openings are made to allow services, such as cables, to pass through. These openings need to be sealed to prevent fire spreading. Fire stopping products with the same or higher fire rating as the walls and floors they are installed in are used to maintain integrity.

Fire stopping products are used to contain fire and restore the fire rating of walls and floors.

APPLICATIONS

Legrand's EZ-Path range is a flexible and cost-effective solution that meets fire stopping requirements in all market sectors where passive fire protection is required from data centres, which have significant cabling requirements, to multi-dwelling units, with single cable requirements.

DATA CENTRES
The cabling requirement within data centres is significant and constantly changing

HEALTHCARE
Healthcare installations require rigorous planning and have numerous firewalls

EDUCATION
It is crucial to minimise disruption when installing or updating fire stopping products in education settings

COMMERCIAL OFFICES
Offices are regularly changing and reconfiguring requiring updates to cabling etc

HOTELS
Hotels have a significant cabling requirement including CCTV and upgrades to multimedia equipment

MULTI-DWELLING UNITS
Multi-dwelling units require many single cable installations for satellite television etc

CHOOSING A FIRE STOPPING DEVICE FOR ELECTRICAL AND DATA INSTALLATIONS

Before choosing a fire stopping device it's vital to understand the requirements of the building it will be installed in.

Firstly it is important to be aware of the construction of the building and the areas within it. This is easier with a new build as walls etc are shown on drawings, but can be a little more complicated with existing buildings.
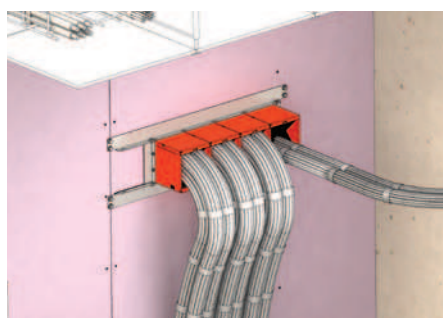
The type of wall or floor used has a bearing on the fire stopping device that you can use. The following wall types can be used for passive fire protection:
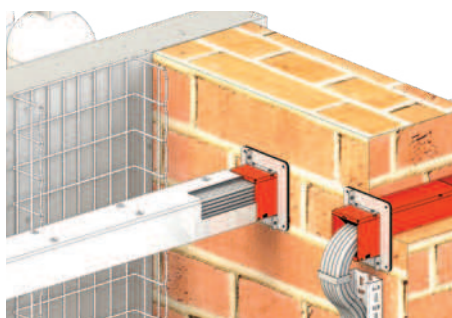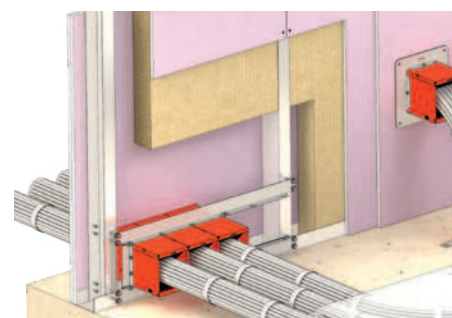

Rigid walls and floors
Either made of a variety of brick, concrete block or concrete.

Floors are considered in the same way as rigid walls when selecting a fire stopping device.

Flexible walls
Often called partition, dry wall or cavity walls, these are made of a steel frame with plasterboards either side of a set gap.

ROCKWOOL ablative coated batt
Intended to act as an airseal barrier to reinstate the fire resistance of concrete floors, masonry walls and drywall systems when voids have been created for the passage of services.

Increased capacity, new equipment and replacement of obsolete equipment can mean that electrical and data cables need to be added and removed regularly. It's important to remember this when planning passive fire protection as doing this at a later date will mean drilling and cutting of walls and floors and therefore loss of fire resistance during and after works.

FIRE CLASSIFICATION

It is also important to know the required fire classification of the area the fire stopping device will be installed in.

Fire classification E: Integrity
Fire resistance class E: Integrity demonstrates the ability to prevent the passage of flames or hot gases through the module when exposed to fire on one side, and to prevent the occurrence of flames on the unexposed side.

Fire classification EI: Integrity and Insulation
Fire resistance class EI: Offers the highest level of protection from flames, smoke and heat. This classification of fire rated devices performs to the standard of E when exposed to fire on one side, and also restricts temperature rise on the unexposed side to below the required standard.

The classification is formed by putting either E or EI followed by the time in minutes that the wall or fire stopping device is approved to.

EI120 / E180
Integrity & Insulation   Integrity

WHY CHOOSE EZ-PATH FIRE STOPPING DEVICES

EZ-Path mechanical fire stopping devices offer the client, specifier, contractor and fire inspector a solution for passive fire protection through walls and floors where electrical and data cables have been installed.

EZ-Path devices contain a factory fitted intumescent lining which reacts to either flame or heat (at 177°C) by expanding by 800% in size, closing the pathway.
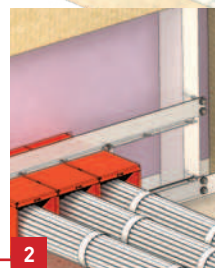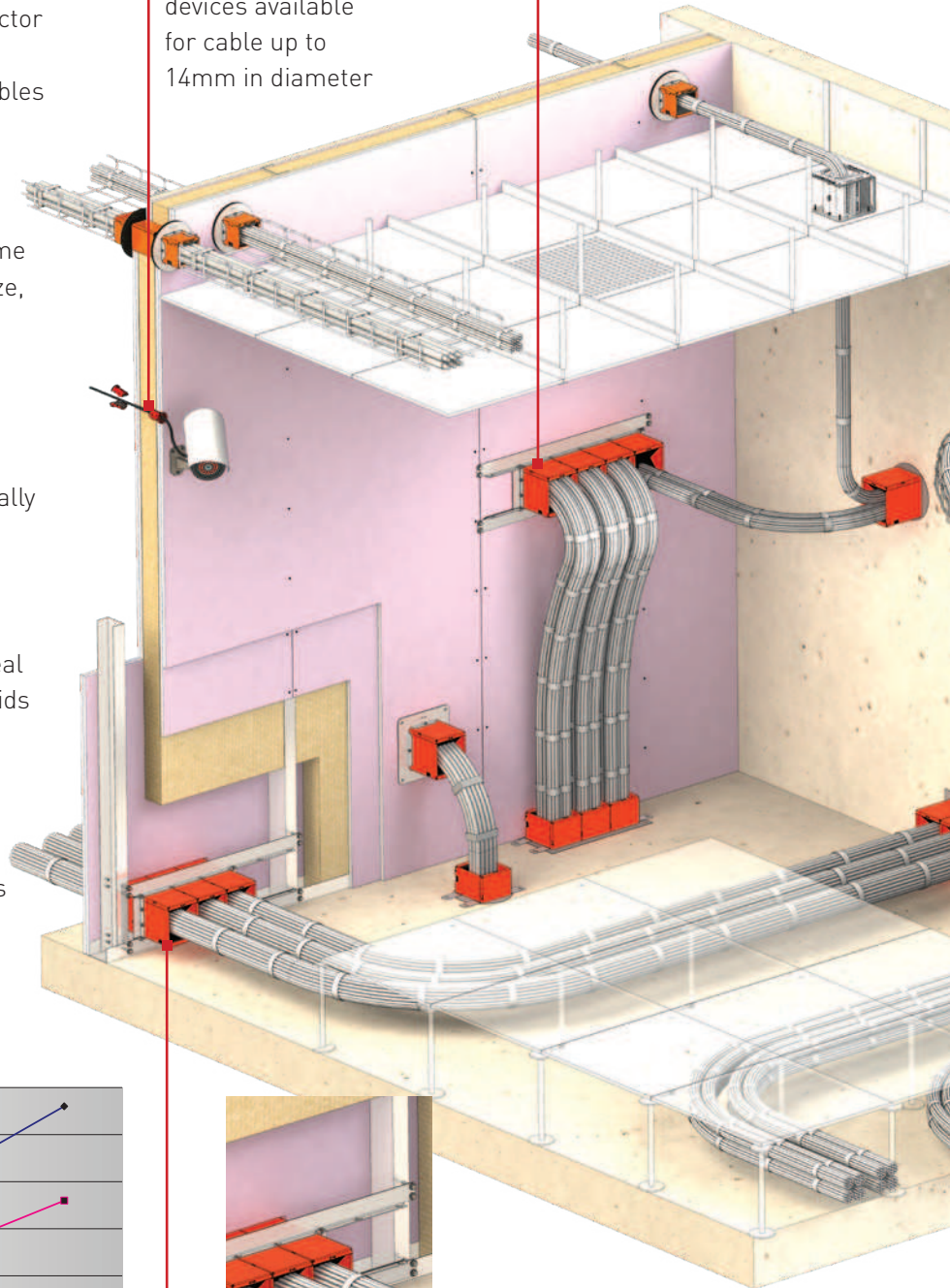
- EZ-Path can be used for power and data cables up to 100mm in diameter
- The device is approved empty or 100% visually full allowing for easy inspection
- Does not require a fire specialist to install
- Approved for use in all wall and floor types
- Available in two sizes. The 33 module is ideal for restricted spaces in ceiling and floor voids and 44+ module for all other applications
- Cables can be added or removed without the need for additional holes which means the fire rating of the wall or floor does not have to be restored and dust and debris is not created, thus controlling cost
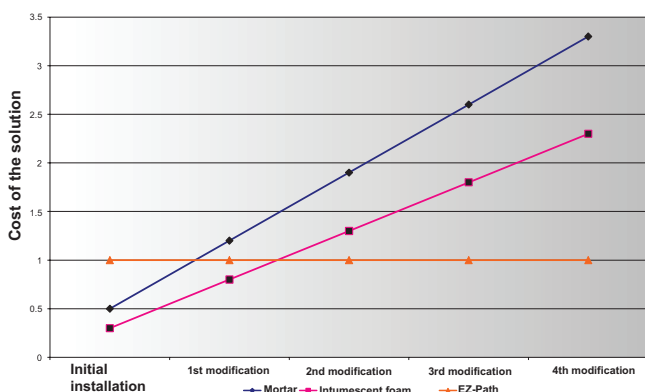
1
Single cable devices available for cable up to 14mm in diameter

3
Modular plates allow for increased capacity

2
Certified for use with ROCKWOOL ablative coated batt

Cost of the solution graph:
- Mortar
- Intumescent foam
- EZ-Path

X-axis: Initial installation, 1st modification, 2nd modification, 3rd modification, 4th modification
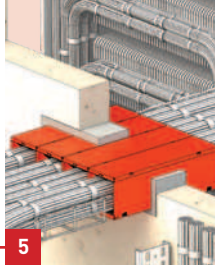
5 Approved empty or 100% visually full
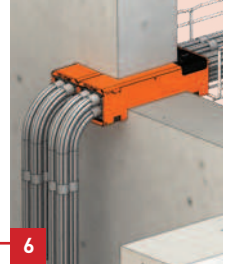
6 Devices can be retrofitted if cabling is already installed
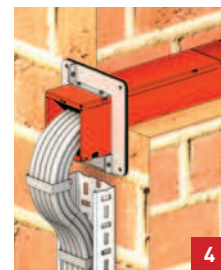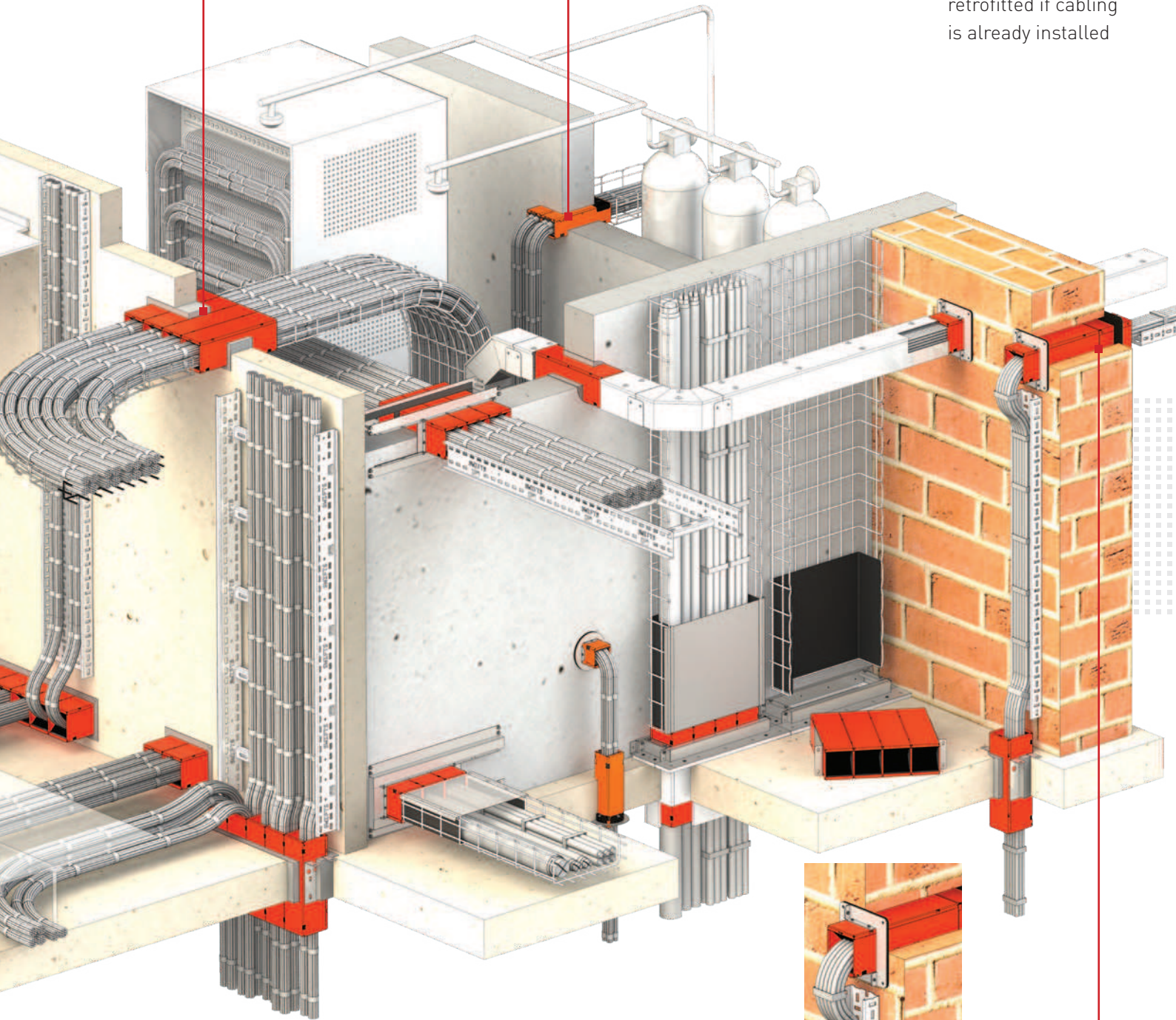
4 Extension pieces available for walls thicker than 250mm

L legrand

EZ-Path® fire rated pathway Series 33

selection chart

CE marked certification
Fire resistance : EN 1366-3
Classification : EN 13501-2
ETA 18 / 0412

All EZ-Path systems are approved empty up to 100 % visual fill of cable

CM250018 (EZD33T)
267
76
76

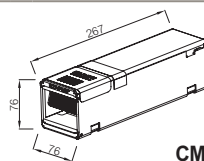| Cat. Nos.		Plate kit		Plate dim. (mm) (w x h or Ø)		EZ-Path systems	Opening dimension (mm) (w x h or Ø)	Ø cables (mm)
1 x CM250018 (1 x EZD33T) (grouted)	**1 x** +	–		–	=		Ø 102 or 90 x 90 (+/- 5 mm)	OD ≤ Ø 21
2 x CM250018 (2 x EZD33T) (grouted)	**2 x** +	–		–	=		170 x 90 (+/- 5 mm)	
1 x CM250018 + CM250240 (1 x EZD33T + EZP133CWT)	**1 x** +			Ø 140	=		Ø 102 or 78 x 78	OD ≤ Ø 21
								OD ≤ Ø 50
2 x CM250018 + CM250120[1] (2 x EZD33T + EZP233WT)	**2 x** +			185 x 109	=		155 x 81	OD ≤ Ø 21
								OD ≤ Ø 50
3 x CM250018 + CM250130[1] (3 x EZD33T + EZP333WT)	**3 x** +			261 x 109	=		230 x 81	OD ≤ Ø 21
								OD ≤ Ø 50
4 x CM250018 + CM250140[1] (4 x EZD33T + EZP433WT)	**4 x** +			407 x 109	=		305 x 81	OD ≤ Ø 21
								OD ≤ Ø 50
7 x CM250018 + CM250170[1] (7 x EZD33T + EZP733WT)	**7 x** +			610 x 109	=		540 x 81	OD ≤ Ø 21
								OD ≤ Ø 50
1 x CM250018 + CM250220 (1 x EZD33T + EZP133KT)	**1 x** +			Ø 140	=		Ø 102	OD ≤ Ø 21

Accessories for Series 33			
Extension	**CM250078** (EZD33E)		Length 152 mm for use with **CM250018** (EZD33T)
Dropout	**CM250206** (RCM33)		For use with **CM250018** (EZD33T)

Fire stopping grommets are available
Contact us on +44 (0) 370 608 9020

For installation, application and fire resistance data sheets visit
www.legrand.co.uk

NOTE : Please refer to the ETA 18/0412 for additional information about fire resistance classification
1 : Plate kits **CM250120** (EZP233WT), **CM250130** (EZP333WT), **CM250140** (EZP433WT) and **CM250170** (EZP733WT) are non-stocked items. Please contact **+44 (0) 370 608 9020** for more information.

Fire resistance classification					
Flexible wall		**Rigid wall**			**Rigid floor**
≥ 100 mm	≥ 122 mm	≥ 100 mm	≥ 122 mm	≥ 150 mm	≥ 150 mm
–	–	–	–	EI90 / E120	–
EI60 / E120[2]	EI120	EI60 / E120[2]	EI120	EI120 / E240[3]	–
–	–	–	–	EI60 / E240[3]	–
–	EI120	–	EI120	EI120 / E240[3]	–
–	–	–	–	EI60 / E240[3]	–
–	EI120	–	EI120	EI120 / E240[3]	–
–	–	–	–	EI60 / E240[3]	–
–	EI120	–	EI120	EI120 / E240[3]	–
–	–	–	–	EI60 / E240[3]	–
–	EI120	–	EI120	EI120 / E240[3]	–
–	–	–	–	EI60 / E240[3]	–
–	–	–	–	–	EI120 / E240

2 : In minimum 100 mm thick wall, annular space filled with minimum 45 kg/m³ stone wool for circular opening only
3 : When annular space is filled with regular construction mortar, integrity of the system is E240
 When annular space is not filled with mortar, integrity of the system is E120
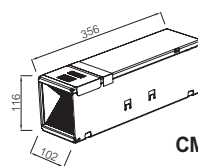
EZ-Path® fire rated pathway Series 44+

selection chart

C€ marked certification
Fire resistance : EN 1366-3   Classification : EN 13501-2
ETA 18 / 0412

All EZ-Path systems are approved empty up to 100 % visual fill of cable

356
116
102

CM250058 (EZD44T)

Cat. Nos.		Plate kit		Plate dim. (mm) (w x h)	EZ-Path systems		Opening dim. (mm) (w x h or Ø)	Ø cables (mm)	
1 x CM250058 (1 x EZD44T) (grouted with mortar)	1 x	+	–	–	=		Ø 152 - Ø 155 or width = 138 (+/- 16 mm) hieght = 143 (+/- 12 mm) max. 154 x 155	OD ≤ Ø 21	
2 x CM250058 (2 x EZD44T) (grouted with mortar)	2 x	+	–	–	=		width = 240 (+/- 16 mm) hieght = 143 (+/- 12 mm) max. 256 x 155		
3 x CM250058 (3 x EZD44T) (grouted with mortar)	3 x	+	–	–	=		width = 342 (+/- 16 mm) hieght = 143 (+/- 12 mm) max. 358 x 155	OD ≤ Ø 21	
4 x CM250058 (4 x EZD44T) (grouted with mortar)	4 x	+	–	–	=		width = 444 (+/- 16 mm) hieght = 143 (+/- 12 mm) max. 460 x 155		
5 x CM250058 (5 x EZD44T) (grouted with mortar)	5 x	+	–	–	=		width = 546 (+/- 16 mm) hieght = 143 (+/- 12 mm) max. 562 x 155		
1 x CM250058 + CM350700 (1 x EZD44T + EZP144WE)	1 x	+		178 x 191	=	1	Ø 152 - Ø 155 or 105 x 118	OD ≤ Ø 21	
1 x CM250058 + CM350701 (1 x EZD44T + EZP144RSE)	1 x	+		178 x 191	=	1	Ø 152 - Ø 155 or 105 x 118	OD ≤ Ø 21	
1 x CM250058 + CM250230 (1 x EZD44T + EZP144WT)	1 x	+		178 x 237	=		Ø 152 - Ø 155 or 105 x 118	OD ≤ Ø 80	
1 x CM250058 + CM350702 (1 x EZD44T + EZP544WE)	1 x	+			=		105 x 118		
2 x CM250058 + CM350702 (2 x EZD44T + EZP544WE)	2 x	+			=		206 x 118		
3 x CM250058 + CM350702 (3 x EZD44T + EZP544WE)	3 x	+		610 x 196	=		309 x 118	OD ≤ Ø 21	
4 x CM250058 + CM350702 (4 x EZD44T + EZP544WE)	4 x	+			=		412 x 118		
5 x CM250058 + CM350702 (5 x EZD44T + EZP544WE)	5 x	+			=		515 x 118		
1 up to 5 x CM250058 + CM350702 (1 up to 5 x EZD44T + EZP544WE) **Rockwool** FirePro® Ablative Coated Batt	1 up to 5 x	+	**50 mm thick FirePro® Ablative coated batt** **FirePro® Acoustic intumescent sealant**	610 x 196	=		Max. 568 x 800	OD ≤ Ø 21	

Accessories for Series 44+				
Extension	**CM250178** (EZD44ES)		Length 152 mm for use with **CM250058** (EZD44T)	
Dropout	**CM250306** (RCM44)		For use with **CM250058** (EZD44T)	

Fire resistance classification					
Flexible wall		**Rigid wall**			**Rigid floor**
≥ 100 mm	≥ 122 mm	≥ 100 mm	≥ 122 mm	≥ 150 mm	≥ 150 mm
–	–	EI90 / E240[2]	EI90 / E240[2]	EI120 / E240[2]	–
–	–	EI90 / E240[2]	EI90 / E240[2]	EI90 / E240[2]	–
EI90 / E120[2]	EI90 / E120[2]	EI90 / E120[2/4]	EI90 / E120[2/4]	EI120[2/3/4]	–
EI90 / E120[2]	EI90 / E120[2]	EI90 / E120[2/4]	EI90 / E120[2/4]	EI120[2/3/4]	–
–	EI120[5]	–	EI120[4/5]	EI120 / E180[4/5]	–
EI120[2]	EI120[2]	EI120[2/4]	EI120[2/4]	EI120[2/4]	–
EI90 / E120	EI90 / E120	EI90 / E120	EI90 / E120	EI90 / E120	–

NOTE : Please refer to the ETA 18/0412 for additional information about fire resistance classification

1 : Annular space filled with min. 45 kg/m³ stone wool for circular Ø opening only
2 : 16.6 mm Ø PVC tubes can be installed in EZ Path® with cables of OD ≤ Ø 21
3 : For telecommunications cables OD ≤ Ø 21, resistance to fire is EI120
    For all sheathed cables OD ≤ Ø 21, resistance to fire of E190 / E120
4 : When annular space is filled with regular construction mortar, the integrity of the system is E240 for all sheathed cables with OD ≤ Ø 21
5 : Requires cable tray with cable tray cover and intumescent paper sheet to be installed on both sides of the wall for all sheathed cables with Ø 21 < OD ≤ Ø 80
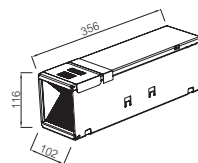
CE marked certification
Fire resistance : EN 1366-3   Classification : EN 13501-2
ETA 18 / 0412

All EZ-Path systems are approved empty up to 100 % visual fill of cable

356 116 102

CM250058 (EZD44T)

Cat. Nos.		Plate kit	Plate dim. (mm) (w x h)		EZ-Path systems	Opening dim. (mm) (w x h or Ø)	Ø cables (mm)	
1 x CM250058 + CM250250 (1 x EZD44T+ EZP544WT)	1 x +					105 x 120		
2 x CM250058 + CM250250 (2 x EZD44T+ EZP544WT)	2 x +					206 x 120		
3 x CM250058 + CM250250 (3 x EZD44T+ EZP544WT)	3 x +		610 x 272	=		309 x 120	OD ≤ Ø 80	
4 x CM250058 + CM250250 (4 x EZD44T+ EZP544WT)	4 x +					412 x 120		
5 x CM250058 + CM250250 (5 x EZD44T+ EZP544WT)	5 x +					515 x 120		
1 x CM250058 + CM350703 (1 x EZD44T+ EZP144MBE)	1 x +		56 mm bracket width	=	Mortar	Ø 152 - Ø 155	OD ≤ Ø 21	
1 x CM250058 + CM250260 (1 x EZD44T + EZG144T)	1 x +		274 x 264	=		Ø 152	OD ≤ Ø 21 / OD ≤ Ø 50 / OD ≤ Ø 80	
2 x CM250058 + CM350704 (2 x EZD44T + EZP544MBE)	2 x +				Mortar	216 x 144 (+/- 8 mm) max. 224 x 152		
3 x CM250058 + CM350704 (3 x EZD44T + EZP544MBE)	3 x +		56 mm bracket width	=	Mortar	330 x 144 (+/- 8 mm) max. 338 x 152	OD ≤ Ø 21	
4 x CM250058 + CM350704 (4 x EZD44T + EZP544MBE)	4 x +				Mortar	440 x 144 (+/- 8 mm) max. 448 x 152		
5 x CM250058 + CM350704 (5 x EZD44T + EZP544MBE)	5 x +				Mortar	542 x 144 (+/- 8 mm) max. 550 x 152		
1 up to 5 x CM250058 + CM350704 (1 up to 5 x EZD44T + EZP544MBE) **Rockwool** FirePro® Ablative Coated Batt and FirePro® Compound	1 up to 5 x +	50 mm thick FirePro® Ablative coated batt / Rockwool FirePro® Firestop compound	56 mm bracket width	=		max. 550 x 320	OD ≤ Ø 21	
4 x CM250058 + CM250370 (4 x EZD44T + EZG444T)	4 x +		568 x 210	=		445 x 155	OD ≤ Ø 80	

Fire resistance classification					
Flexible wall		Rigid wall			Rigid floor
≥ 100 mm	≥ 122 mm	≥ 100 mm	≥ 122 mm	≥ 150 mm	≥ 150 mm
–	EI120[1]	–	EI120[1/3]	EI120 / E180[1/4]	–
–	–	–	–	–	EI120[2]
–	–	–	–	–	EI180[1]
–	–	–	–	—	EI120 / E180[1]
–	–	–	–	–	EI190 / E180[1]
–	–	–	–	–	EI120[2]
–	–	–	–	–	EI120
–	–	–	–	–	EI180[1]
–	–	–	–	–	EI120 / E180[1]

NOTE : Please refer to the ETA 18/0412 for additional information about fire resistance classification
1 : Requires cable tray in association with cable tray cover and intumescent paper sheet to be installed on top side of floor
2 : 16.6 mm Ø PVC tubes can be installed in EZ Path® with cables of OD ≤ Ø 21
3 : For telecommunications cables OD ≤ Ø 21, resistance to fire is EI120. For all sheathed cables OD ≤ Ø 21, resistance to fire of E190 / E120
4 : When annular space is filled with regular construction mortar, the integrity of the system is E240 for all sheathed cables with OD ≤ Ø 21

Contact details

United Kingdom

Great King Street North,
Birmingham, B19 2LF

Customer Services:

Tel: +44 (0) 345 605 4333 Fax: +44 (0) 345 605 4334

E-mail: legrand.sales@legrand.co.uk

Quotations and Technical Support

Tel: +44 (0) 370 608 9020 Fax: +44 (0) 345 605 5334

E-mail: uk-cmsales@legrand.co.uk

Republic of Ireland:

Tel: 01 295 9673 Fax: 01 295 4671

E-mail: legrand.sales@legrand.co.uk

FOLLOW US AT

@ **www.legrand.co.uk**
www.legrand.ie

▶ **www.youtube.com/legrandtvuk**

voltimum **www.voltimum.co.uk**
www.voltimum.ie

🐦 **www.twitter.com/legranduk**

in **www.linkedin.com/
company/legranduk**

Ll legrand®

Head office (UK and Ireland):
Legrand Electric Limited
Great King Street North, Birmingham, B19 2LF
Tel: +44 (0) 370 608 9000 Fax: +44 (0) 370 608 9004
Website: www.legrand.co.uk

999527 - EZ-PATH.11.2018.3k

↻ recycle

This document is printed on sustainably sourced paper. Please recycle.

EZ-Path® is a registered trademark and is manufactured by
Specified Technologies Inc. (STI).

The Legrand logo is a registered trademark
of the Legrand group of companies.