SALAMANDRE®

IP55 RATED DISTRIBUTION TRUNKING

PRODUCT TECHNICAL GUIDE







Global strength

built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development.

With an increasing investment in research and development (circa 5% of sales) and more than 3,700 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

CORPORATE SOCIAL RESPONSIBILITY

Legrand's CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly asserts Legrand's ongoing commitment to sustainable development.

Respect human rights and communities Ensure health, safety and well-being Develop skills Promote equal opportunity and diversity



Provide sustainable solutions Ensure sustainable procurement -Act ethically











COMPLETE CABLE MANAGEMENT SOLUTIONS

Using its global strength and market leading position, Legrand has developed a complete range of cable management solutions, including:

- Swifts cable ladder
- Swifts cable tray
- Salamandre distribution and lighting trunking
- Cablofil steel wire cable tray
- Floor systems including underfloor trunking, floor boxes, grommets and the Soluflex cavity floor system
- Perimeter systems
- PVC cable tray





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IP55 rated distribution trunking 02

PRODUCT AND TECHNICAL INFORMATION

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SALAMANDRE®

fit for longer fit Salamandre IP55 rated



CPC (clear powder coating) offers extended life expectancy over traditional pre-galvanised trunking systems and with the inclusion of neoprene gasketed trunking lids, our system can achieve an IP rating of IP55.



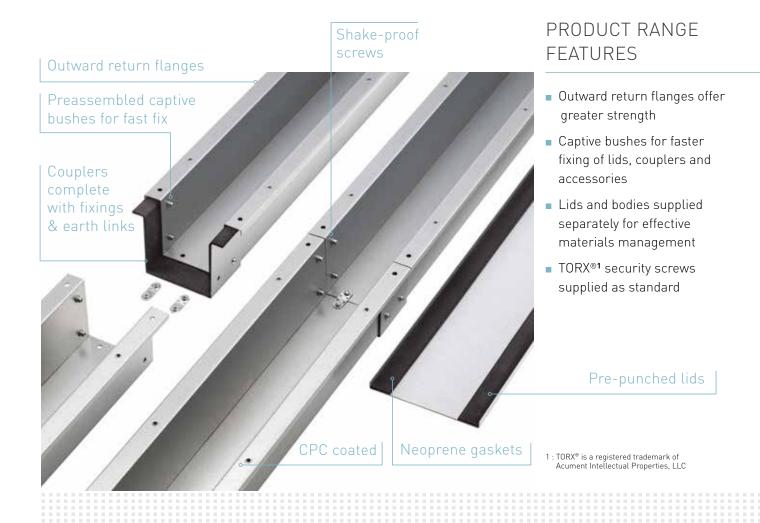
SALAMANDRE® ... MORE INNOVATIONS FOR MORE ENVIRONMENTS





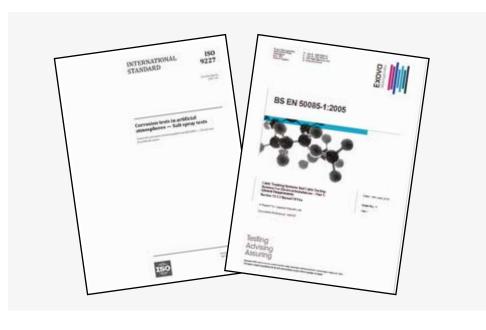






INDEPENDENTLY TESTED FOR PEACE OF MIND

- Independently tested to an IP55 rating - offering greater cable protection than standard distribution trunking
- 672 hours performance achieved in salt spray test in Legrand laboratories - offering longer life expectancy in external environments
- Independently tested for resistance to fire to BS EN 50085-1:2005.





Salamandre® IP55 rated trunking

IP55 rated trunking range

TRUNKING				FITTINGS						
Size (mm)	Lengths	Lids	Top lid 90° bends – gusset	Top lid 90° bends – square	Inside lid 90° bends – gusset	Inside lid 90° bends – square	Outside lid 90° bends – gusset	Outside lid 90° bends – square	Top lid 45° bends	
1 COMPARTI	MENT									
50 x 50	WSTIP22	WSTIP2LID	WSTIP22AGL	WSTIP22ASL	WSTIP22BGL	WSTIP22BSL	WSTIP22CGL	WSTIP22CSL	WSTIP22AL	
75 x 50	WSTIP32	WSTIP3LID	WSTIP32AGL	WSTIP32ASL	WSTIP32BGL	WSTIP32BSL	WSTIP32CGL	WSTIP32CSL	WSTIP32AL	
100 x 50	WSTIP42	WSTIP4LID	WSTIP42AGL	WSTIP42ASL	WSTIP42BGL	WSTIP42BSL	WSTIP42CGL	WSTIP42CSL	WSTIP42AL	
100 x 75	WSTIP43	WSTIP4LID	WSTIP43AGL	WSTIP43ASL	WSTIP43BGL	WSTIP43BSL	WSTIP43CGL	WSTIP43CSL	WSTIP43AL	
100 x 100	WSTIP44	WSTIP4LID	WSTIP44AGL	WSTIP44ASL	WSTIP44BGL	WSTIP44BSL	WSTIP44CGL	WSTIP44CSL	WSTIP44AL	
150 x 50	WSTIP62	WSTIP6LID	WSTIP62AGL	WSTIP62ASL	WSTIP62BGL	WSTIP62BSL	WSTIP62CGL	WSTIP62CSL	WSTIP62AL	
150 x 75	WSTIP63	WSTIP6LID	WSTIP63AGL	WSTIP63ASL	WSTIP63BGL	WSTIP63BSL	WSTIP63CGL	WSTIP63CSL	WSTIP63AL	
150 x 100	WSTIP64	WSTIP6LID	WSTIP64AGL	WSTIP64ASL	WSTIP64BGL	WSTIP64BSL	WSTIP64CGL	WSTIP64CSL	WSTIP64AL	
150 x 150	WSTIP66	WSTIP6LID	WSTIP66AGL	WSTIP66ASL	WSTIP66BGL	WSTIP66BSL	WSTIP66CGL	WSTIP66CSL	WSTIP66AL	
225 x 50	WSTIP92	WSTIP9LID	WSTIP92AGL	WSTIP92ASL	WSTIP92BGL	WSTIP92BSL	WSTIP92CGL	WSTIP92CSL	WSTIP92AL	
225 x 75	WSTIP93	WSTIP9LID	WSTIP93AGL	WSTIP93ASL	WSTIP93BGL	WSTIP93BSL	WSTIP93CGL	WSTIP93CSL	WSTIP93AL	
225 x 100	WSTIP94	WSTIP9LID	WSTIP94AGL	WSTIP94ASL	WSTIP94BGL	WSTIP94BSL	WSTIP94CGL	WSTIP94CSL	WSTIP94AL	
225 x 150	WSTIP96	WSTIP9LID	WSTIP96AGL	WSTIP96ASL	WSTIP96BGL	WSTIP96BSL	WSTIP96CGL	WSTIP96CSL	WSTIP96AL	
225 x 225	WSTIP99	WSTIP9LID	WSTIP99AGL	WSTIP99ASL	WSTIP99BGL	WSTIP99BSL	WSTIP99CGL	WSTIP99CSL	WSTIP99AL	

Trunking lengths and lids are sold separately Each trunking length is supplied with one coupler and required TORX^{®1} head fixings and earth links

For all 2 compartment Cat. Nos. include 2C at the end of each product code shown above (except lids) For all 3 compartment Cat. Nos. include 3C at the end of each product code shown above (except lids) For 3 compartment products sizes 50 x 50 mm and 75 x 50 mm are not available For all 2 and 3 compartment AGT (top lid tees – gusset), type A or type B cable exit configuration must be specified at time of order, (see p. 16)

 $^{1: \}mathsf{TORX}^{\text{(8)}}$ is a registered trademark of Acument Intellectual Properties LLC



		FITTI	INGS			ACCESSORIES			
Inside lid 45° bends	Outside lid 45° bends	Top lid tees – gusset	Inside lid tees – gusset	Outside lid tees – gusset	Crossovers	Reducers	End caps	Flanges	Trunking couplers
WSTIP22BL	WSTIP22CL	WSTIP22AGT	WSTIP22BGT	WSTIP22CGT	WSTIP22AGX	-	WSTIP22E	WSTIP22F	WSTIP22C
WSTIP32BL	WSTIP32CL	WSTIP32AGT	WSTIP32BGT	WSTIP32CGT	WSTIP32AGX	WSTIP32 Z R	WSTIP32E	WSTIP32F	WSTIP32C
WSTIP42BL	WSTIP42CL	WSTIP42AGT	WSTIP42BGT	WSTIP42CGT	WSTIP42AGX	WSTIP42 Z R	WSTIP42E	WSTIP42F	WSTIP42C
WSTIP43BL	WSTIP43CL	WSTIP43AGT	WSTIP43BGT	WSTIP43CGT	WSTIP43AGX	WSTIP43 Z R	WSTIP43E	WSTIP43F	WSTIP43C
WSTIP44BL	WSTIP44CL	WSTIP44AGT	WSTIP44BGT	WSTIP44CGT	WSTIP44AGX	WSTIP44 Z R	WSTIP44E	WSTIP44F	WSTIP44C
WSTIP62BL	WSTIP62CL	WSTIP62AGT	WSTIP62BGT	WSTIP62CGT	WSTIP62AGX	WSTIP62 Z R	WSTIP62E	WSTIP62F	WSTIP62C
WSTIP63BL	WSTIP63CL	WSTIP63AGT	WSTIP63BGT	WSTIP63CGT	WSTIP63AGX	WSTIP63 Z R	WSTIP63E	WSTIP63F	WSTIP63C
WSTIP64BL	WSTIP64CL	WSTIP64AGT	WSTIP64BGT	WSTIP64CGT	WSTIP64AGX	WSTIP64 Z R	WSTIP64E	WSTIP64F	WSTIP64C
WSTIP66BL	WSTIP66CL	WSTIP66AGT	WSTIP66BGT	WSTIP66CGT	WSTIP66AGX	WSTIP66 Z R	WSTIP66E	WSTIP66F	WSTIP66C
WSTIP92BL	WSTIP92CL	WSTIP92AGT	WSTIP92BGT	WSTIP92CGT	WSTIP92AGX	WSTIP92 Z R	WSTIP92E	WSTIP92F	WSTIP92C
WSTIP93BL	WSTIP93CL	WSTIP93AGT	WSTIP93BGT	WSTIP93CGT	WSTIP93AGX	WSTIP93 Z R	WSTIP93E	WSTIP93F	WSTIP93C
WSTIP94BL	WSTIP94CL	WSTIP94AGT	WSTIP94BGT	WSTIP94CGT	WSTIP94AGX	WSTIP94 Z R	WSTIP94E	WSTIP94F	WSTIP94C
WSTIP96BL	WSTIP96CL	WSTIP96AGT	WSTIP96BGT	WSTIP96CGT	WSTIP96AGX	WSTIP96 Z R	WSTIP96E	WSTIP96F	WSTIP96C
WSTIP99BL	WSTIP99CL	WSTIP99AGT	WSTIP99BGT	WSTIP99CGT	WSTIP99AGX	WSTIP99 Z R	WSTIP99E	WSTIP99F	WSTIP99C

Key: Z = trunking size code Replace Z with the relevant code (see p. 6)



order information

■ IP rated trunking

IP rated trunking is IP55 rated according to IEC 60529 For IP55 fittings see p. 8-9

■ Trunking size codes

All IP55 rated trunking product codes are pre-fixed with WSTIP

Size (mm) width x depth	IP55 trunking
50 x 50	22
75 x 50	32
75 x 75	33
100 x 50	42
100 x 75	43
100 x 100	44
150 x 50	62
150 x 75	63
150 x 100	64
150 x 150	66
225 x 50	92
225 x 75	93
225 x 100	94
225 x 150	96
225 x 225	99

In the Cat. Nos. shown on p. 4-5, replace ${\sf Z}$ with the relevant standard trunking size code

■ Finishes

IP55 rated distribution trunking is made from steel with a CPC (clear powder coating)

■ Compartment options

WSTIP range of trunking is available in 1, 2 and 3 compartment options See selection chart (p. 4-5) for options

Trunking and fittings are supplied with equal compartments as standard. For unequal compartments, details must be supplied at the

3 compartment is available in width code 3 and above

Distribution trunking lengths

For 1 compartment trunking there is no need to change the Cat. No. Example: WSTIP44
For 2 compartment trunking, add **2C** to the end of the Cat. No. Example: WSTIP44**2C**For 3 compartment trunking, add **3C** to the end of the Cat. No. Example: WSTIP44**3C**

Distribution trunking fittings For 1 compartment trunking there is no need to change the Cat. No. Example: WSTIP44AGL
For 2 compartment trunking, add 2C to the end of the Cat. No. Example: WSTIP44AGL2C
For 3 compartment trunking, add 3C to the end of the Cat. No. Example: WSTIP44AGL3C

Multi-compartment tees – Top lid tees – gusset
2 and 3 compartment AGT (top lid tees – gusset) must be suffixed with
either A or B to denote the cable exit configuration on the tee branch,
Cat. No. Example: WSTIP44AGT3CA
Please refer to p. 16 to determine type A or type B for the cable exit
configuration

configuration

Lid fixings

Standard WSTIP lids are supplied with TORX®1 screw fixings

■ Fittings

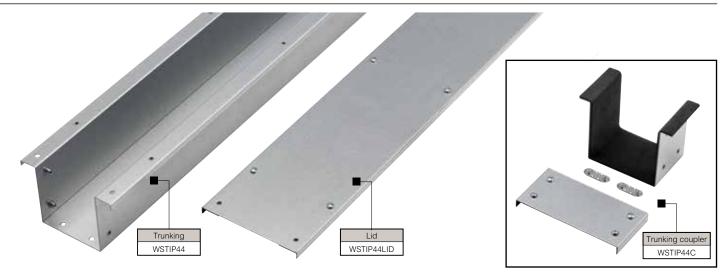
The chart below details each element required to correctly order a fitting E.g. **WSTIP33AGX2C** = 75 x 75 top lid gusset crossover 2 compartment

Range	Width	Height	Cover position	Gusset / Square	Function	Compartment
WSTIP	2 = 50 mm	2 = 50 mm	A = Top	G = Gusset	L = Bend	2C = 2 Compartment
	3 = 75 mm	3 = 75 mm	B = Internal	S = Square	T = Tee	3C = 3 Compartment
	4 = 100 mm	4 = 100 mm	C = External		X = Crossover	
	6 = 150 mm	6 = 150 mm				
	9 = 225 mm	9 = 225 mm				



lengths, lids and couplers





Selection chart (p. 4-5)
Order information (p. 6)
Standards and quality assessment (p. 11)
Dimensions and technical information (p. 12-17)

		— — — — — — — — — — — — — — — — — — —			
Pack	Cat. Nos.	Trunking lengths – 2 m	Pack	Cat. Nos.	Lids – 2 m
		Manufactured to BS EN 50085-2-1 Each length is supplied with one coupler and required TORX ^{®1} fixings Lids sold separately (see opposite) Trunking manufactured with captive bushes for faster assembly For more order information details (p. 6) Single compartment	1 1 1 1	WSTIP2LID WSTIP3LID WSTIP4LID WSTIP6LID WSTIP9LID	Spare lids Lids supplied with required TORX®1 fixings 50 mm wide 75 mm wide 100 mm wide 150 mm wide 225 mm wide
		Also available in multi-compartment options (see p. 6) Width Depth (mm) Cmm)			
1	WSTIP22	50 50			Accessories
1 1 1 1 1 1 1 1	WSTIP32 WSTIP33 WSTIP42 WSTIP43 WSTIP44 WSTIP62 WSTIP63 WSTIP66 WSTIP92 WSTIP92	75 50 75 75 75 100 50 100 75 100 100 150 50 150 75 150 150 225 50 225 50 225 75	1	WSTIP Z C	Trunking couplers Couplers supplied with required TORX®1 fixings, earth links and cover to achieve IP55 rating Couplers ordered separately are also supplied with the relevant fixings and earth links
1 1 1	WSTIP94 WSTIP96 WSTIP99	225 100 225 150 225 225			

NOTE : all couplers supplied with relevant earth links

Key: Z = trunking size code

Replace Z with the relevant code (see p. 6)

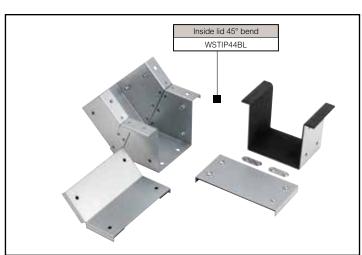
^{1 :} TORX® is a registered trademark of Acument Intellectual Properties LLC



fittings







Selection chart (p. 4-5) Order information (p. 6) Standards and quality assessment (p. 11) Dimensions and technical information (p. 12-17)

Pack	Cat. Nos.	Fittings
		90° bends
		All bends are supplied with lids, couplers and fixings
		Top lid 90° bends – gusset
1 1 1	WSTIP Z AGL WSTIP Z AGL2C WSTIP Z AGL3C	1 compartment 2 compartment 3 compartment
1 1 1	WSTIP Z ASL WSTIP Z ASL2C WSTIP Z ASL3C	Top lid 90° bends – square 1 compartment 2 compartment 3 compartment
		Inside lid 90° bends – gusset
1 1 1	WSTIP Z BGL WSTIP Z BGL2C WSTIP Z BGL3C	1 compartment 2 compartment 3 compartment
		Inside lid 90° bends – square
1 1 1	WSTIP Z BSL WSTIP Z BSL2C WSTIP Z BSL3C	1 compartment 2 compartment 3 compartment
		Outside lid 90° bends –
1 1 1	WSTIP Z CGL WSTIP Z CGL2C WSTIP Z CGL3C	gusset 1 compartment 2 compartment 3 compartment
		Outside lid 90° bends –
1 1 1	WSTIP Z CSL WSTIP Z CSL2C WSTIP Z CSL3C	square 1 compartment 2 compartment 3 compartment

	_
Key: Z = trunking size code	
Replace Z with the relevant code (see p. 6)	

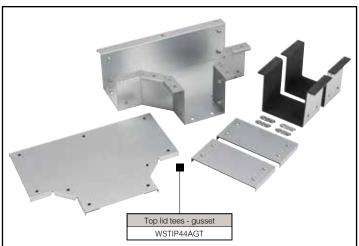
Pack	Cat. Nos.	Fittings (continued)
		45° bends
		All bends are supplied with lids, couplers and fixings
		Top lid 45° bends
1 1 1	WSTIP Z AL WSTIP Z AL2C WSTIP Z AL3C	1 compartment 2 compartment 3 compartment
		Inside lid 45° bends
1 1 1	WSTIP Z BL WSTIP Z BL2C WSTIP Z BL3C	1 compartment 2 compartment 3 compartment
		Outside lid 45° bends
1 1 1	WSTIP Z CL WSTIP Z CL2C WSTIP Z CL3C	1 compartment 2 compartment 3 compartment
1	WSTIP Z F	Flange
1	WSTIP Z E	End cap

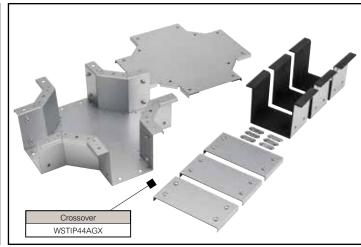
NOTE : 3 compartment is not available in 50 mm wide sizes



fittings (continued)







Selection chart (p. 4-5) Order information (p. 6) Standards and quality assessment (p. 11) Dimensions and technical information (p. 12-17)

Pack	Cat. Nos.	Fittings (continued)
		Tees
		All top lid, inside lid and outside lid tees are supplied with lids, couplers and fixings All 2 and 3 compartment fittings are supplied with preassembled dividers and crossovers Bridge flyovers reduce the cable capacity by 50% except on offset products which give full cable capacity Inside and outside lid tees – square, available to special order Contact us on +44 (0) 345 605 4333
		Top lid tees – gusset
1 1 1	WSTIP Z AGT WSTIP Z AGT2C K WSTIP Z AGT3C K	
		Inside lid tees – gusset
1 1 1	WSTIP Z BGT WSTIP Z BGT2C WSTIP Z BGT3C	1 compartment 2 compartment 3 compartment
		Outside lid tees – gusset
1 1 1	WSTIP Z CGT WSTIP Z CGT2C WSTIP Z CGT3C	1 compartment 2 compartment 3 compartment

Pack	Cat. Nos.	Fittings (continued)
		Crossovers
		All crossovers are supplied with lids, couplers and fixings All 2 and 3 compartment crossovers include a bridge flyover complete with fixing brackets and screws Bridge flyovers reduce the cable capacity by 50% except on offset products which give full cable capacity
1 1 1	WSTIP Z AGX WSTIP Z AGX2C WSTIP Z AGX3C	1 compartment 2 compartment 3 compartment
		Reducers
1	WSTIP Z Z R	Supplied with lids, lid fixings and coupler screws The larger trunking size uses standard coupler (not supplied) for joining to reducer (Cat. No. WSTIP Z C see p. 7)

Key:

Z = trunking size code

Replace Z with the relevant code, see p. 6

K = top lid tees – gusset

2 and 3 compartment AGT (top lid tees – gusset) must be suffixed with either A or B to denote the cable exit configuration on the tee branch i.e. Cat. No. WSTIP44AGT3CA

For more information on cable exit configurations, see p. 16



accessories and fasteners



PRODUCT IMAGES ARE ONLY ILLUSTRATIVE





Order information (p. 6) Standards and quality assessment (p. 11) Dimensions and technical information (p. 12-17)

Pack	Cat. Nos.	Accessories
1	MGR44H F	Stirrup hangers Hole for M10 rod It is suggested to order finish E (powder coated) and specify CPC (clear powder coating) 100 mm wide x 100 mm max. depth
1	MGR66H F	For use with IP55 trunking 50 mm width 150 mm wide x 150 mm max. depth For use with IP55 trunking 75 mm and 100 mm widths
1	MGR99H F	225 mm wide x 225 mm max. depth For use with IP55 trunking 150 mm width
1	MGR1212H F	225 mm wide x 225 mm max. depth For use with IP55 trunking 225 mm width
		Overhead hangers For use with IP55 trunking It is suggested to order finish E (powder coated) and specify CPC (clear powder coating)
10	MGR440H F	For use with IP55 trunking 50 mm width
10	MGR66OH F	For use with IP55 trunking 75 mm and 100 mm widths
1	T206	PVC edging strip For fitting on to top edge of divider 10 m strip

	Pack	Cat. Nos	Fasteners and tools
`	1	WSTIPFIX1	Spare fixing kits Supplied with coupler – 50 mm and 75 mm
}			- M5 x 10 mm tamperproof screws x 6 - M5 x 16 mm tamperproof screws x 4 - earth link x 1
	1	WSTIPFIX2	Supplied with coupler – 100 mm, 150 mm and 225 mm - M5 x 10 mm tamperproof screws x 12 - M5 x 16 mm tamperproof screws x 4 - earth link x 2
	1	WSTIPFIX3	Supplied with trunking lids - M5 x 12 mm tamperproof screws x 14
	1	TX25	Tools TORX®1 head screwdriver
	10	TX25BIT	TORX®1 head 25 bit

For finishes available for stirrup and overhead hangers PG (pre-galvanised)

G (hot dip galvanised after manufacture) E (powder coated)



standards and quality assessment

Distribution trunking classification

Legrand's steel distribution trunking was previously made to BS 4678 Part 1. This is now an obsolescent standard and has been replaced by the latest BS European standard BS EN 50085-2-1

Classification to BS EN 50085-1: 2005 and BS EN 50085-2-1: 2006

According to resistance to impact for installation and application: impact 5.0J

According to temperatures given in tables 1, 2 and 3: Clause 6.3

	Min.	Max.
Storage and transport	− 25°C	-
2. Installation	– 15°C	-
3. Application	_	+ 60°C

Clause 6.4 According to resistance to flame propagation: non-flame propagating

Clause 6.5 According to electrical continuity characteristic: CTS with electrical continuity (maximum linear impedance 1.0 milliohms per metre)

According to electrical insulating characteristic: Clause 6.6 CTS without electrical insulating characteristic

According to degree of protection provided by enclosure according to BS EN 60529 : 1991 : IP55 Clause 6.7

Clause 6.9 According to system access cover retention:

CTS access cover which can only be opened with a tool

According to electrically protective separation: Clause 6.10 CTS without internal protective partition

Clause 6.101 According to position when surface mounted:

CTS surface mounted on wall CTS surface mounted on ceiling

(CTS mounted away from the wall or ceiling using fixing

devices

Declare cover mounted upwards 2.0 metre hanger

centres)

Clause 6.103 According to the functions provided : Type 2 CTS (distribution)

Quality assessment and trade association memberships

Legrand offers a vast range of fully integrated cable management products to meet the demands of today's commercial and industrial installations. Designed and manufactured to the highest standards at our Scarborough and Consett sites

Quality and environmental assessment

Legrand Electric Limited holds ISO 9001: 2015 Quality Assessment Registrations from Bureau Veritas

The Salamandre range is manufactured at Legrand sites that are accredited to ISO 14001 : 2015 Environmental Management System





Trade association memberships

Legrand Electric Limited is a member of the following trade associations:

- BEAMA
- Galvanizers Association (GA)
 Energy Industries Council (EIC)
 First Point Assessment (FPAL)





Registered Reg no. 10042065



trunking size, capacity and weights

Selecting the size of trunking required

The cable trunking capacity guide shown below can be used for the initial size calculation

This table is based on the maximum number of cables of a given size that can be physically accommodated within the trunking

In an actual installation, however, consideration must be given to a number of other factors:

- 1. Where cables cross each other such as in a tee or crossover, extra space will be required
- 2. Depending upon the type of installation, future wiring needs could well require spare trunking capacity
- 3. Larger cables, in particular, do not lie neatly and flatly. Consideration must be given to the practicality of laying cable within a trunking compartment
- 4. The cable trunking capacity guide can be used for each compartment within multi-compartment trunking
- 5. A 50% reduction in capacity will apply at tees and crossovers unless offset fittings are used

Cable trunking capacity guide

For each size of cable, multiply the number to be installed by the common factor. Add together the results of these calculations for all cable sizes. The correct trunking size must have a capacity factor equal to or greater than this total Example:

24 x 16 mm² stranded @ factor 47.8 = 1147.220 x 2.5 mm² solid @ factor 11.9 = 238.0

Minimum trunking size required in this example = 75 x 50 (trunking capacity factor 1 555)

Cable sizes and factors

Size (mm²) (nom.) Solid 1.5 8.0 2.5 11.9 Stranded 1.5 8.6 2.5 12.6 4.0 16.6 6.0 21.2 10.0 35.3 16.0 47.8 25.0 73.9 35.0 93.3 50.0 128.7 70.0 167.4

Trunking sizes and capacity factors

Size (mm)	Trunking capacity factor
50 x 50	1037
75 x 50	1555
75 x 75	2371
100 x 50	2091
100 x 75	3189
100 x 100	4252
150 x 50	3 0 9 1
150 x 75	4742
150 x 100	6394
150 x 150	9697
225 x 50	4671
225 x 75	7114
225 x 100	9298
225 x 150	14652
225 x 225	21766

■ IP55 rated trunking weights

The approximate weights given are for CPC (clear powder coating) finish, in kilograms (nominal) and subject to material thickness tolerance

	Size (mm)														
Product	50 x 50	75 x 50	75 x 75	100 x 50	100 x 75	100 x 100	150 x 50	150 x 75	150 x 100	150 x 150	225 x 50	225 x 75	225 x 100	225 x 150	225 x 225
1 compartment trunking length per metre including coupler	2.04	2.24	2.76	3.46	2.99	3.46	3.02	3∙52	3.94	4.87	3.76	4.23	4.69	5·61	7.00
2 compartment trunking length per metre including coupler	2.58	2.78	3.52	3.99	3.75	4.43	3.55	4·27	4.92	6.29	4.29	4.98	5.66	7.03	9.09
3 compartment trunking length per metre including coupler	-	3.31	4.27	4.53	4.50	5.41	4.09	5.03	5.89	7.71	4.83	5.74	6.64	8·45	11·17
Trunking lids per metre	1.16	1.41	1.41	1.61	1.61	1.61	2.05	2.05	2.05	2.05	2.75	2.75	2.75	2.75	2.75
Top bends – 1 compartment	1.37	1.62	1.82	1.91	2.07	2.28	2.70	2.98	3.11	3.54	3.82	4.06	4.30	4.77	5.50
Top bends – 2 compartment	1.49	1.75	2.01	2.05	2.27	2.55	2.86	3.22	3.42	3.99	4.02	4.34	4.67	5.28	6.30
Top bends – 3 compartment	-	1.88	1.82	2.20	2.48	2.81	3.03	3.45	3.73	4.44	4.21	4.63	5.04	5.85	7·10
Top tees – 1 compartment	1.67	2.12	2.35	2.44	2.63	2.84	3.10	3.39	3.53	3.96	3.92	4.15	4.38	4.81	5.53
Top tees – 2 compartment	1.91	2.40	2.73	2.76	3.06	3.37	3.52	3.93	4.18	4.85	4.49	4.87	5.24	5.96	7·11
Top tees – 3 compartment	-	2.62	2.35	3.01	3.40	3.80	3.81	4.33	4.69	5.57	4.88	5.38	5.88	6.84	8.37
Crossovers – 1 compartment	2·10	2.38	2.63	2.72	2.93	3.17	3.44	3.73	3.87	4.32	4.37	4.60	4.81	5.22	5.90
Crossovers – 2 compartment	2.44	2.78	3·15	3·19	3.53	3.90	4.07	4.51	4.80	5.55	5.28	5.69	6.08	6.86	8.09
Crossovers – 3 compartment	-	3.09	3.70	3.54	4.01	4.51	4.50	5.09	5.53	6.57	5.85	6-44	7.01	8·13	9.88

All dimensions (mm) are nominal



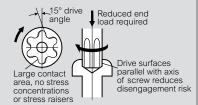
installation of components and drilling information with dimensions

■ Lid fixing details

Tamperproof screw fixings

Screws are M5 with efficient high torque TORX^{®1} recess and rounded end to prevent cable damage
Manufactured to BS 4183 and BS 3643 from low carbon mild steel, zinc plated and clear passivated. A special TORX^{®1} screwdriver is needed

(supplied separately p. 10)
Trunking lids are supplied separately with TORX®1 screws bagged separately



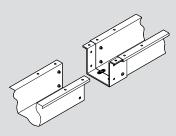
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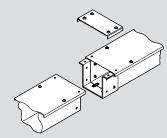
■ Coupling details

Length to length

Each trunking length is supplied with a coupler and the required number of fixing screws

To connect, simply slide the coupler on to one end of the trunking length, align the fixing holes and fix in place using the screws provided. Repeat for the second trunking length. When ready to fix the lids, ensure the cover strap supplied with the coupler is fixed over the lids Earth links are connected using the coupler fixings

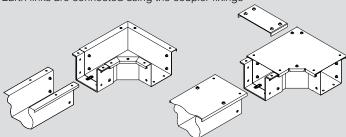




Fitting to length

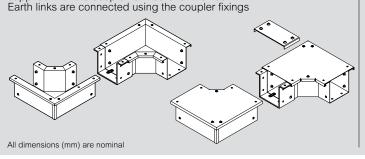
Standard IP55 fittings are supplied with required number of couplers and fixing screws (1 coupler per bend, 2 couplers per tee and 3 couplers per crossover). To connect, simply slide the coupler on to one open side of the fitting, align the fixing holes and fix in place using the screws provided. Repeat the process for fixing to the trunking length. When ready to fix the lids, ensure the cover strap supplied with the coupler is fixed over the lids

Earth links are connected using the coupler fixings



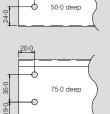
Fitting to fitting

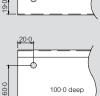
Standard IP55 fittings are supplied with required number of couplers and fixing screws (1 coupler per bend, 2 couplers per tee and 3 couplers per crossover). To connect, simply slide the coupler on to one open side of the fitting, align the fixing holes and fix in place using the screws provided. Repeat the process for fixing accessory to the uncoupled end. When ready to fix the lids, ensure the cover strap supplied with the coupler is fixed over the lids



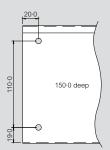
■ Hole positions for cut lengths

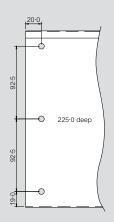
Drill clearance holes in cut length for M5 screws in positions shown below



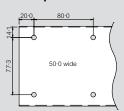


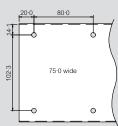


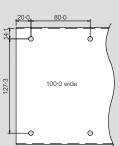




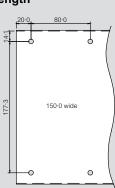
Hole positions for lids cut to length

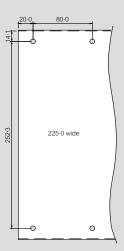












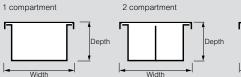


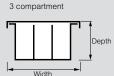
technical information

■ Trunking lengths

Each trunking length is supplied with one coupler and required $\mathsf{TORX}^{\otimes 1}$ fixings

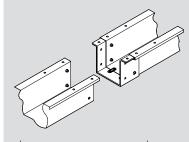
For trunking sizes and size codes (see p. 6)





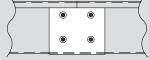
Trunking and fittings are supplied with equal compartments as standard. For unequal compartments, details must be supplied at time of order for this non-standard product

■ Trunking coupler

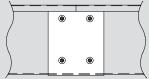




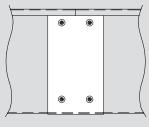
50 mm deep 4 sidewall screws, 2 base screws and 1 earth link per coupler



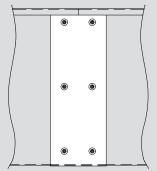
75 mm deep 8 sidewall screws, 2 base screws and 1 earth link per coupler



100 mm deep 8 sidewall screws, 4 base screws and 2 earth links per coupler



150 mm deep 8 sidewall screws, 4 base screws and 2 earth links per coupler



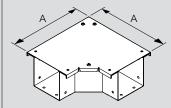
225 mm deep 12 sidewall screws, 6 base screws and 3 earth links per coupler

Supplied with required TORX®1 fixings

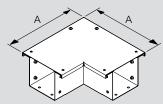
1 : TORX® is a registered trademark of Acument Intellectual Properties LLC

■ 90° bends)

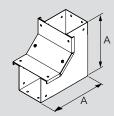
AGL top lid 90° bend – gusset



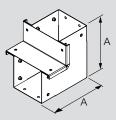
ASL top lid 90° bend – square



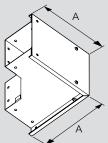
BGL inside lid 90° bend – gusset



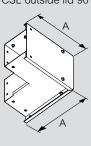
BSL inside lid 90° bend – square



CGL outside lid 90° bend – gusset



CSL outside lid 90° bend – square



Width and depth refer to trunking sizes Dimensions are identical for single and multi-compartment

	A (dim. mm)								
Depth (mm)	AGL	ASL	BGL	BSL	CGL	CSL			
50 x 50	166	166	165	165	165	166			
75 x 50	188	190	165	165	165	166			
75 x 75	188	190	190	190	190	191			
100 x 50	216	215	165	165	165	166			
100 x 75	216	215	190	190	190	191			
100 x 100	216	215	215	215	215	216			
150 x 50	266	265	165	165	165	166			
150 x 75	266	265	190	190	190	191			
150 x 100	266	265	215	215	215	216			
150 x 150	266	265	265	265	265	266			
225 x 50	341	340	340	165	165	166			
225 x 75	341	340	265	190	190	191			
225 x 100	341	340	290	215	215	216			
225 x 150	341	340	340	265	265	266			
225 x 225	341	340	340	340	340	341			

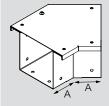
All dimensions (mm) are nominal

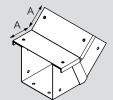


technical information

■ 45° bends

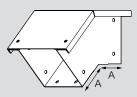
AL top lid 45° bend





BL inside lid 45° bend

CL outside lid 45° bend



Depth (mm)

50 x 50

75 x 50

75 x 75

100 x 50

100 x 75

100 x 100

150 x 50

150 x 75

150 x 100

150 x 150

225 x 50

225 x 75

225 x 100

225 x 150

225 x 225

A (dim. mm)

AL / BL / CL

112

112

112

112

112

112

112

112

112

112

112

112

112

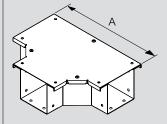
112

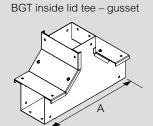
112

Dimensions are identical for single and multi-compartment

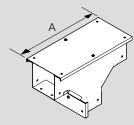
■ Tees

AGT top lid tee – gusset



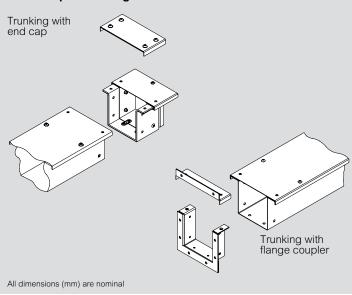


CGT outside lid tee – gusset

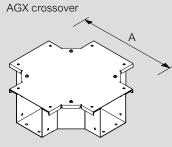


	A (dim. mm)							
Depth (mm)	AGT	BGT	CGT					
50 x 50	282	283	283					
75 x 50	307	283	283					
75 x 75	307	308	308					
100 x 50	332	283	283					
100 x 75	332	308	308					
100 x 100	332	333	333					
150 x 50	382	283	283					
150 x 75	382	308	308					
150 x 100	382	333	333					
150 x 150	382	383	383					
225 x 50	457	283	283					
225 x 75	457	308	308					
225 x 100	457	333	333					
225 x 150	457	383	383					
225 x 225	457	458	458					

■ End caps and flanges



■ Crossovers



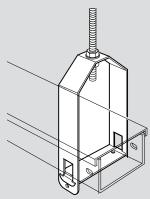
Dimensions are identical for single and multi-compartment

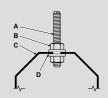
	A (dim. mm)
Depth (mm)	AGX
50 x 50	282
75 x 50	307
75 x 75	307
100 x 50	332
100 x 75	332
100 x 100	332
150 x 50	382
150 x 75	266
150 x 100	266
150 x 150	266
225 x 50	341
225 x 75	341
225 x 100	341
225 x 150	341
225 x 225	341



technical information

■ Stirrup hangers

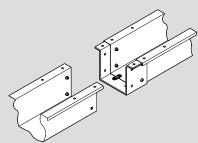




- A M10 threaded rod
- B M10 nut
- C Hanger
- D Form A flat washers

■ Trunking coupler

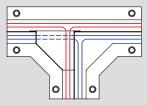
Coupler supplied with required fixings and cover strap



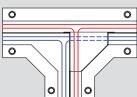
■ Multi-compartment tees

Approximately 50% of cable capacity is lost when using multi-compartment tees

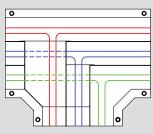
Examples of cable exit configurations:



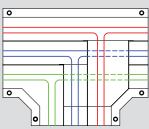
2 compartment type A



2 compartment type B



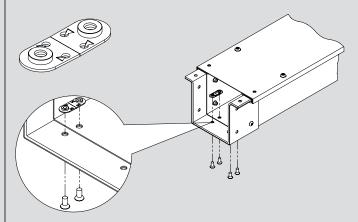
3 compartment type A



3 compartment type B

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■ Earth link



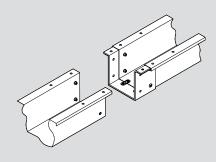
All couplers are supplied with required number of earth links and ${\sf TORX}^{\otimes 1}$ fixing screws

An M5 screw and nut are needed for fixing the earth link

■ Earth bonding

Cable trunking and ducting systems are designed to carry single insulated cables, and such systems must therefore provide the secondary protection required by the Wiring Regulations. This means trunking and ducting systems

must be earth bonded together, and then connected to a suitable earth point. Salamandre trunking is designed to provide such earth bonding, provided that the system is fully assembled with all manufacturer's original components, including fixings, and that all fixings are fully tightened. This is achieved by a combination of serrations under the head of the fixing screws and the internal barbs on the fixing bars



■ Electromagnetic Compatibility (EMC)

Cable trunking and ducting systems are considered passive under normal conditions in respect of electromagnetic influences. The installation of current carrying cables may cause emissions and these cables may also be influenced by electromagnetic signals from elsewhere, but the degree of influence will depend on the nature of the installation and the apparatus connected to the system Specific information relating to the details of cable separation required according to the type of signal, and further information on the subject of EMC, is provided in the relevant Standards and Regulations However as a basic principle, if power and signal cables are run in separate compartments of a metal trunking system, then the metal segregation will significantly reduce the possibility of one circuit having undesirable effect influence upon another

■ Supporting cable trunking systems

The coupler between all types of cable trunking lengths is to provide electrical and mechanical connection between the lengths; it does not provide a load bearing connection between lengths. Consequently each length must be fully supported so that there is no significant bending force applied to the coupler

Each individual length of trunking is strong enough to carry the maximum number of cables that can be physically fitted into the trunking whilst still being able to correctly fit the cover without applying force. All supports must therefore be designed to carry each length individually without relying on the coupler

All dimensions (mm) are nominal

Protection classifications

Protection against solid bodies and liquids: Index of protection - IP xx

1 st	1st digit: Additional letter IP XX (ABCD): protection against						2 nd digit: protection against liquids						
	protection against solid bodies			direct contact resulting from the access to hazardous		IP	tests						
IP	tests		IP	rrent-carrying tests	parts	0		No protection					
0	_ Ø 50 mm	No protection		Ø 50 mm	The back of the	1		Protected against vertically-falling drops of water (condensation)					
1		Protected against solid bodies larger than 50 mm	Α	1 d	hand remains remote from dangerous parts	2	15°H	Protected against drops of water falling at up to 15° from the vertical					
2	Ø 12.5 mm	Protected against solid bodies larger than 12.5 mm	В	12 mm	The dangerous parts can not be touched when introducing a finger	3		Protected against drops of rain water at up to 60° from the vertical					
					The dangerous parts can not	4		Protected against projections of water from all directions					
3	Ø 2.5 mm	Protected against solid bodies larger than 2.5 mm	С	1	be touched when introducing a tool (eg a screwdriver)	5		Protected against jets of water from all directions					
4	<u>Ø 1 mm</u>	Protected against solid bodies larger than 1 mm				6		Protected against jets of water of similar force to heavy seas					
5		Protected against dust (no harmful deposit)	D			D		D		The dangerous parts cannot be touched when introducing a wire	7	15 cm	Protected against the effects of immersion
6		Completely protected against dust				8	E	Protected against prolonged effects of immersion under pressure					

Protection against mechanical impact : Index of protection - IK

According to standards IEC 62262 and BS EN 62262

IK	Tests	Impact energy (in Joules)
IK 00		0
IK 01	0.2 kg 75 mm	0.15
IK 02	0.2 kg 100 mm	0.2
IK 03	0.2 kg	0.35
IK 04	0.2 kg 250 mm	0.5
IK 05	0.2 kg 350 mm	0.7
IK 06	0.5 kg 200 mm	1
IK 07	0.5 kg 400 mm	2
IK 08	1.7 kg 295 mm	5
IK 09	5 kg 200 mm	10
IK 10	5 kg 400 mm	20

(1) A product previously classed as IP xx-7 can be assumed to fulfill the conditions of an IP xx - IK 08 $\,$

This table can be used to ascertain the resistance of a product to an impact given in Joules from the IK code (graduated from 00 to 10). It can also be used to ascertain the correspondence with the old IP code 3rd digit and the corresponding external "Ag" conditions.

The contents of the Protection Classifications charts are for guidance only. If you have any doubt as to the interpretation of the information contained therein, please refer either to the standard itself or contact Legrand.

Health and Safety at Work, etc. Act. 1974

Statement to Purchasers and Prospective Purchasers

- 1. Section 6 of this Act provides that manufacturers, designers, importers or suppliers of articles for use at work have a duty to ensure so far as is reasonably practical, that the article will be safe and without risk to health when properly used. An article is not regarded as being 'properly used' if it is used without regard to any relevant information or advice relating to its use made available by the manufacturer, designer, importer or supplier.
- 2. With regard to these provisions the following is given as a guide to the information which is readily available to you. This information relates to those products detailed in our catalogue(s) or associated literature or may be obtained by specific request to the Company.
- 3. All products should be installed and maintained in accordance with good engineering practice and relevant British or

other applicable standards, regulations for the installation of equipment by the Institute of Electrical Engineers or any other applicable Codes of Practice.

Health and Safety at Work Act

The Electricity at Work Regulations, 1989

- All installations and maintenance should be carried out within the provision of the above Act and by persons so qualified as defined in the Act.
- 2. Information and advice on the suitability of our products can be obtained from Legrand Electric Limited on specific request.

Conditions of salePlease consult our current price list

For information concerning wiring device standards outside the UK contact :

BSI

Customer Services

09:00 to 17:00 - Monday to Friday

Tel: +44 (0) 20 8996 9001 Fax: +44 (0) 20 8996 7001 Email: cservices@bsi-global.com



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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





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

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