

CABLE MANAGEMENTS

Cable Trays | Cable Ladders | Cable Trunkings | Floor Trunkings



INTRODUCTION

AXEL is a well-renowned brand of steel cable management products in the industry. AXEL cable management products are designed & manufactured with the latest technology backed by continuous research and development and it enables us to deliver a quality product to the world market.

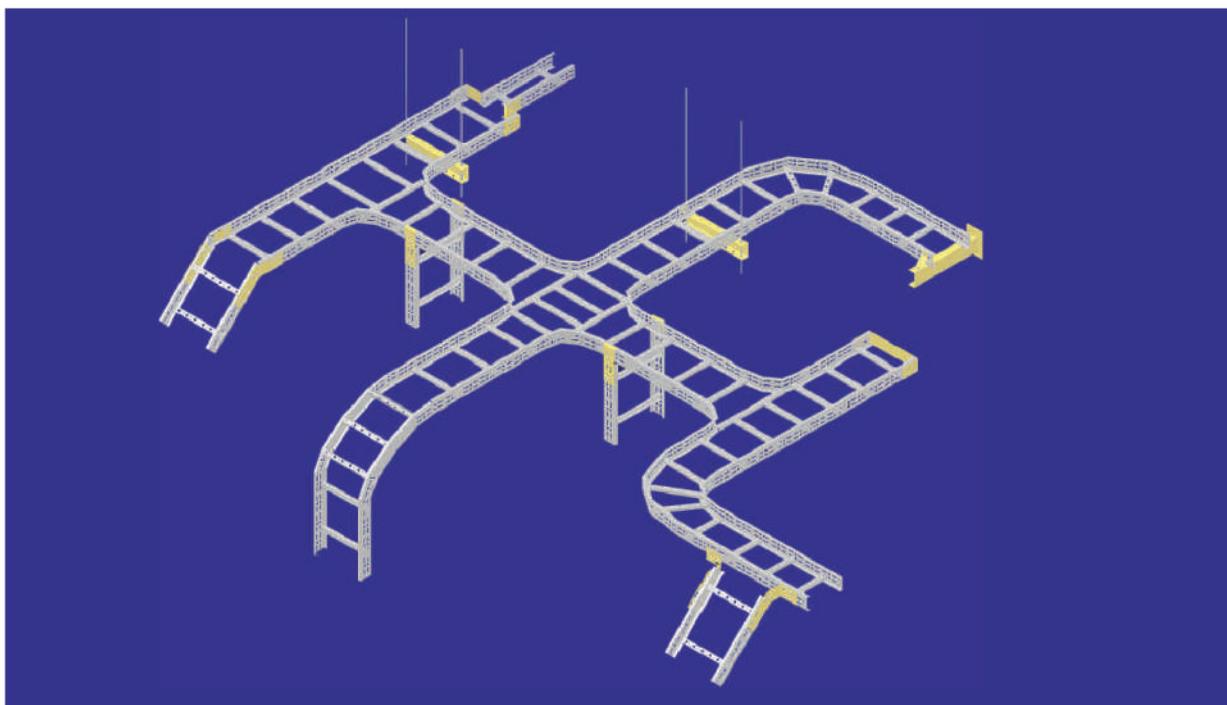
AXEL's product range includes,

- 01. Cable Trays & Accessories**
- 02. Cable Ladders & Accessories**
- 03. Cable Trunkings & Accessories**
- 04. Floor Trunkings & Accessories**

AXEL Cable Management products are manufactured according to international standards and tested at a UKAS accredited Laboratory for its performance. AXEL cable management products include a vast range of sizes and different types of materials & finishes to match different type of site requirements.

AXEL is a technologically advanced, independently tested, high quality and user-friendly cable management system to suit any application in the industry.

AXEL products have an embossed AXEL logo and/or QR code sticker on all its items, including accessories, support systems, and covers. This will help to easily identify the product and protect customers from counterfeit products.

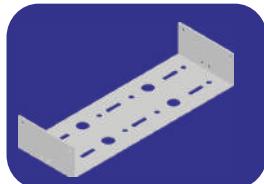
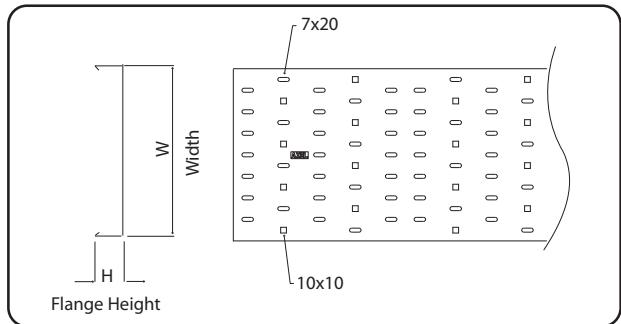
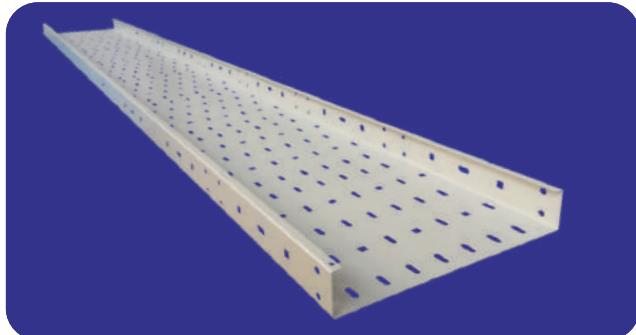


CABLE TRAYS - STD SERIES

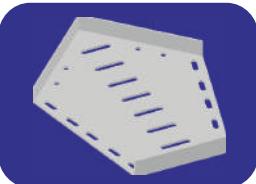
AXEL STD Series Cable Trays are manufactured to the highest standards, offering time-saving and adaptable designs, practical slot patterns, and versatile accessories to simplify site installations.

A vast range of STD Series Cable Trays and accessories help to match the exact requirements of the installation. The continuous perforation of the entire system, including accessories, supports to maintain proper airflow to the cables.

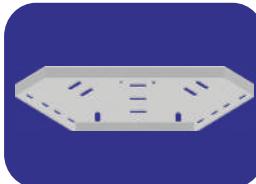
AXEL Cable Tray System Conforms to the BS EN 61532 - 2002 international standards.



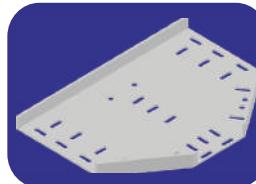
Coupler



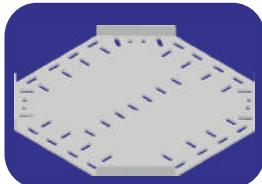
45° Flat Bend



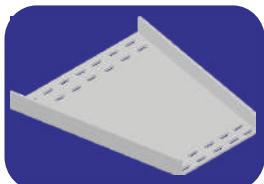
90° Flat Bend



Flat Equal Tee



Flat 4Way Equal Intersection



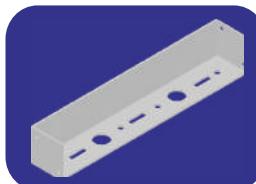
Reducer



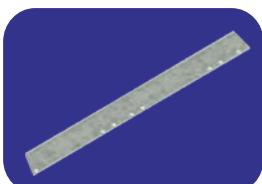
90° External Riser Bend



90° Internal Riser Bend



Stop End



Divide Fillet

Materials and Finishes

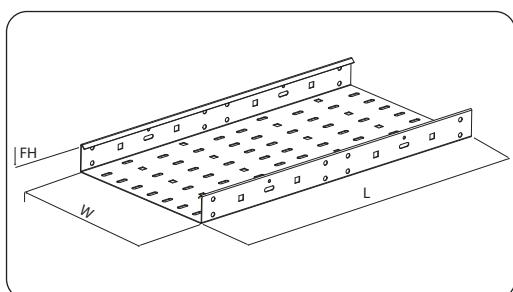
EG Epoxy polyester powder coated to RAL 7032 (Textured) as standard.

HDGA Epoxy polyester powder coated to RAL 9006 as standard.

Aluminum Alloy Unpainted or Painted.

Available sizes

Flange Height (FH) mm	25	50	75	50 E
Width (W) mm	100	150	225	300 450 600 750 900
Length (L) m	2.4			



Material Thickness

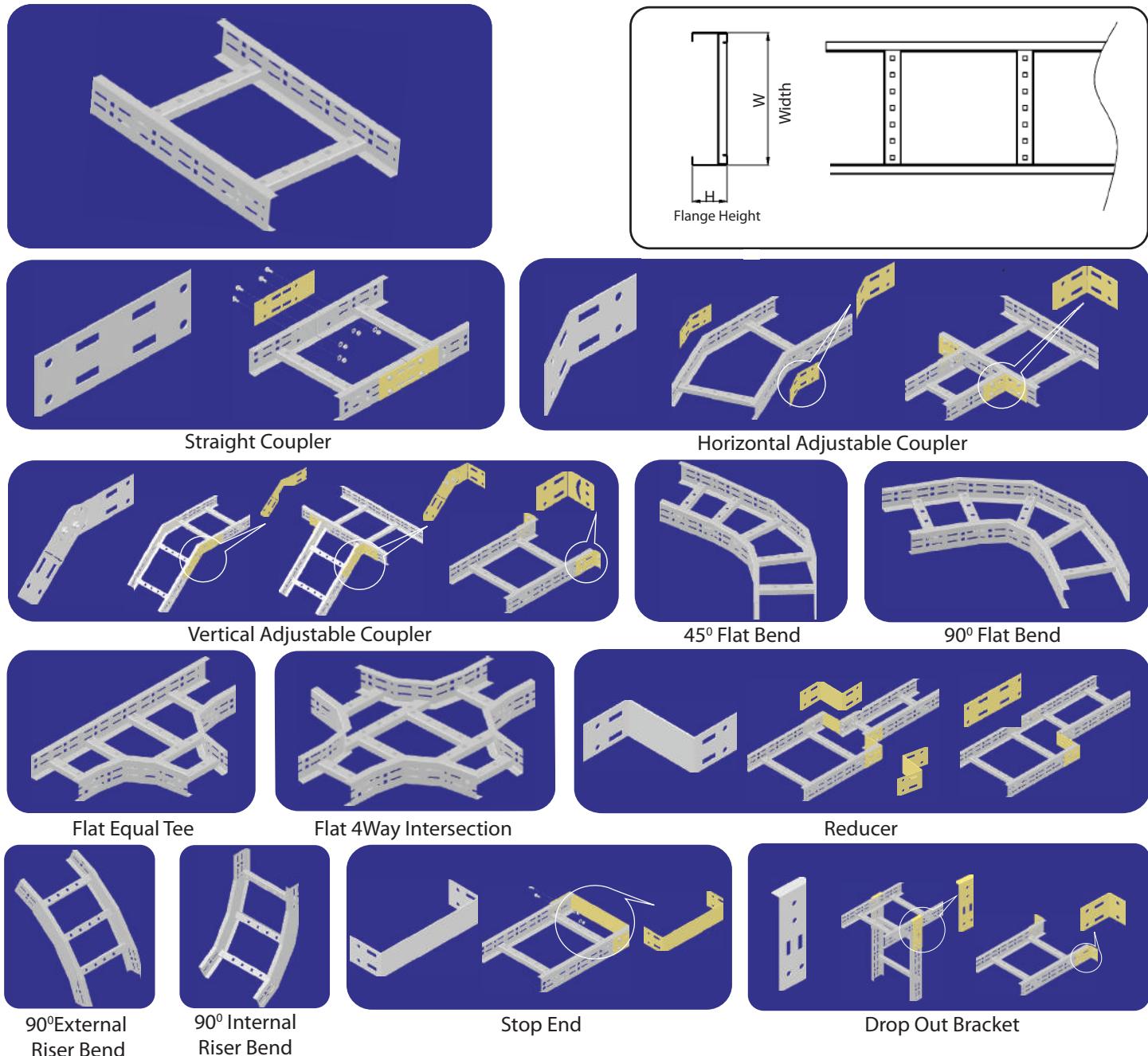
Flange Height (FH) mm	25			50				75			50 E			
Width (W) mm	100	225	450	100	225	450	750	100	300	450	100	225	450	750
	150	300	600	150	300	600	900	150	225	600	150	300	600	900
Thickness of Trays (mm)	1.0	1.2	1.5	1.0	1.2	1.5	2.0	1.2	1.5	2.0	0.8	1.0	1.2	1.5
Thickness of Accessories (mm)	1.5													

* Any other materials, finishes and sizes are available on request. Subject to MOQ

CABLE LADDERS

The AXEL cable ladder system represents a major technological advance in its design, providing faster and easier installation, greater cable fill capacity, total flexibility based on shallow channel profiles and the rungs for cable fixing options, a unique coupler system, and a comprehensive range of accessories for flexible mounting and installation.

AXEL Cable Ladder System Conforms to the BS EN 61537 - 2002 international standards.



Materials and Finishes

EG Epoxy polyester powder coated to RAL 7032 (Textured) as standard.

HDGA Epoxy polyester powder coated to RAL 9006 as standard.

Aluminum Alloy Unpainted or Painted.

Available sizes

Flange Height (FH) mm	75					
Width (W) mm	150	300	450	600	750	900
Length (L) m	2.4					

Material Thickness

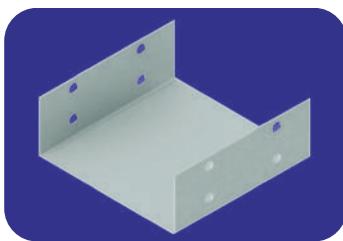
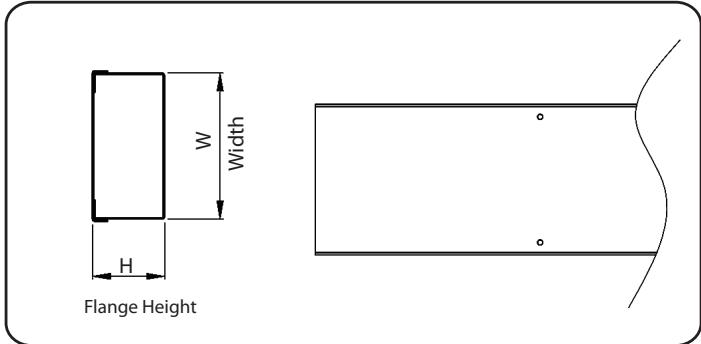
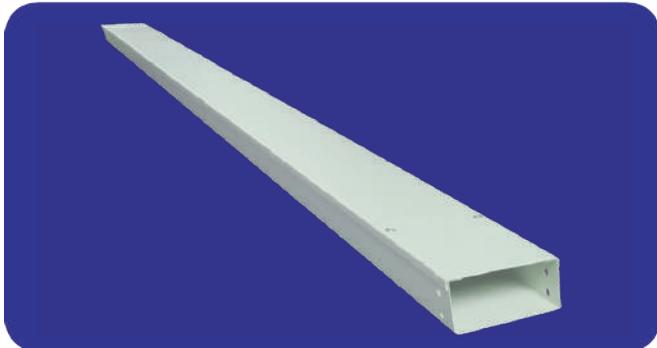
Flange Height (FH) mm	75					
Width (W) mm	150	300	450	600	750	900
Thickness of Ladders (mm)	1.5	1.5	2.0	2.0	2.0	2.0
Thickness of Accessories (mm)	1.5	1.5	1.5 or 2.0	2.0	2.0	2.0

* Any other materials, finishes and sizes are available on request. Subject to MOQ

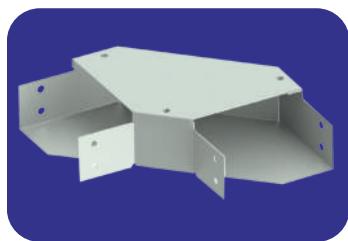
CABLE TRUNKINGS

Cable Trunkings and accessories are available in a wide variety and are designed to accommodate the demands of many cable installations.

AXEL Cable Trunking System conforms to BS EN 61532 - 2002 international standards.



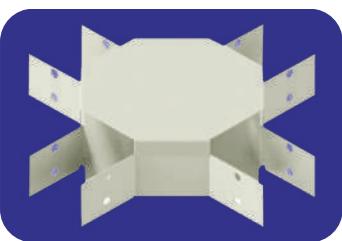
Coupler



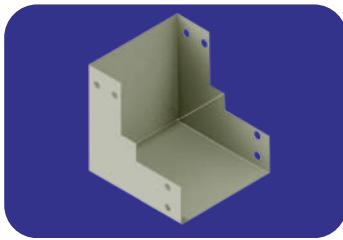
Flat Angle



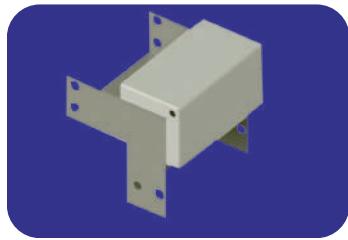
Flat Tee



Flat 4 way Intersection



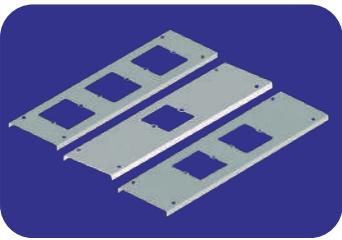
External Angle



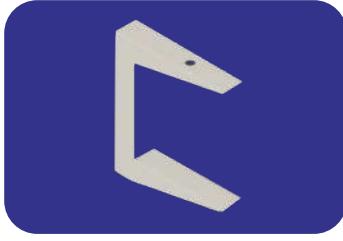
Internal Angle



Stop End



Socket Lids



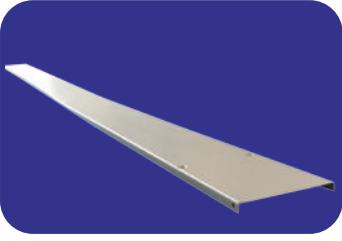
Cable Trunking Hanger Support



Cable Trunking Base



Compartment Cable Trunking Base



Cable Trunking LID

Materials and Finishes

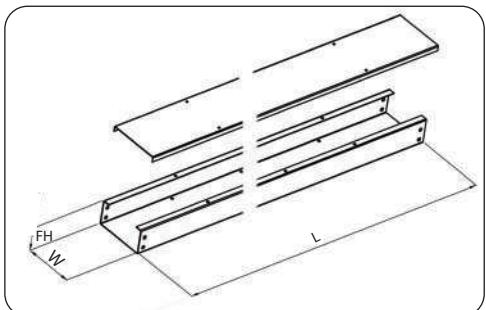
EG Epoxy polyester powder coated to RAL 7032 (Textured) as standard.

HDGA Epoxy polyester powder coated to RAL 9006 as standard.

Aluminum Alloy Unpainted or Painted.

Available sizes

Flange Height (FH) mm	50			100
Width (W) mm	50	75	100	100
Length (L) m	2.4			



Material Thickness

Flange Height (FH) mm	50			100	50 E			100 E
Width (W) mm	50	75	100	100	50	75	100	100
Thickness of Trunkings (mm)	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6
Thickness of Accessories (mm)	1.0			1.0				

* Any other materials, finishes and sizes are available on request. Subject to MOQ

FLOOR TRUNKINGS

AXEL offers a greater choice for floor distribution systems, suited for different applications.

Under Floor Trunking System

This range offers in-screed systems available with steel trunkings, which meets the most demanding power, telecommunication and data cable management requirements.

Flush Floor Trunking System

This system offers the benefit of easy access for cable installation or re-routing. The removable top load bearing panel is designed to lie flush with the floor surface, within the screed.

Raised Floor Trunking System

A comprehensive range of service outlet boxes, junction boxes, trunking and accessories for use in raised or 'cavity' floor installations.



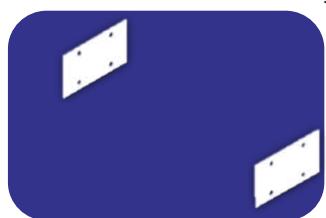
Under Floor Trunking



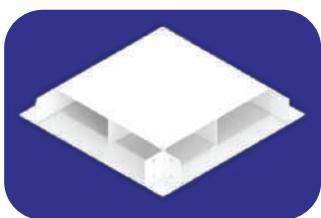
Flush Floor Trunking



Raised Floor Trunking



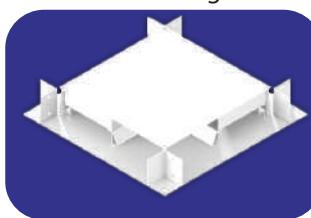
Coupler



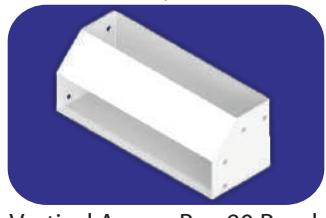
Junction Box 90 Bend



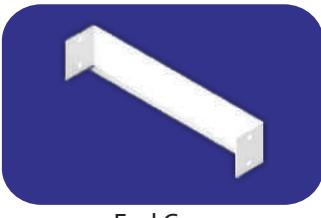
Junction box - Tee



Junction box - Cross



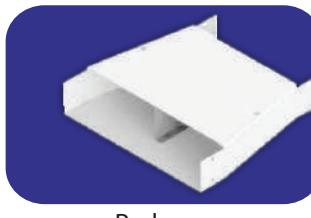
Vertical Access Box 90 Bend



End Cap

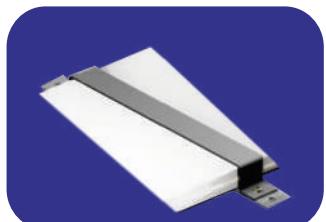


Outlet Floor Box UFT/FFT



Reducer

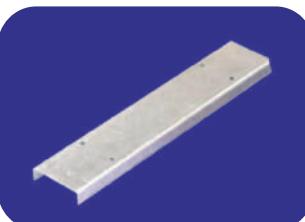
Mounting Accessories



Clamping Bracket



Fixing Bracket



Support Bracket
fixed Height



Support Bracket
Adjustable Height

Materials and Finishes

Al/Zn Unpainted or Painted.

EG Epoxy polyester powder coated to RAL 7032 (Textured) as standard.

HDGA Epoxy polyester powder coated to RAL 9006 as standard.

Stainless steel.

Aluminum Alloy Unpainted or Painted.

Available sizes

	Under Floor Trunking				Flush Floor Trunking				Raised Floor Trunking			
Flange Height (FH) mm	25 38				25 65				38			
Width (W) mm	1 comp	50	75	100	150	100	150	75	100	150	225	
	2 comp	150	225	300	375	450	100	150	225	300	400	150
	3 comp	150	225	300	375	450	150	225	300	400	375	450
	4 comp	375	450									375 450
Length (L) m	2.4											

Material Thickness

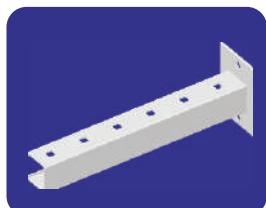
Trunking Base 1.0mm - 1.5mm	Trunking Lid 1.0mm - 2.0mm	Accessories 1.0mm - 2.0mm
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* Any other materials, finishes and sizes are available on request. Subject to MOQ

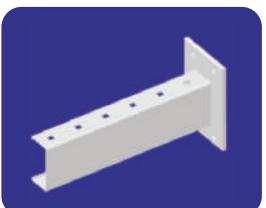
SUPPORT SYSTEM

The AXEL Support system is manufactured to the BS 6949 standard, including a range of supports and accessories to comply with AXEL Cable Trays and Ladders.

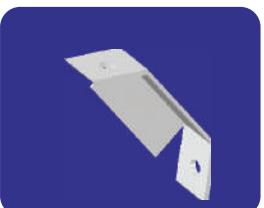
Cantilever Support and Accessories



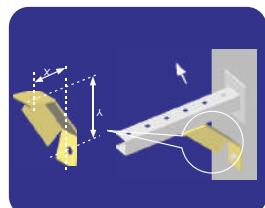
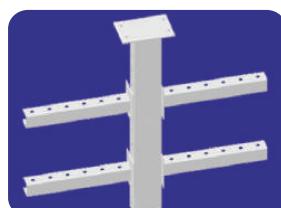
Cantilever Support
35x40mm
cross section for
General Duty
Applications



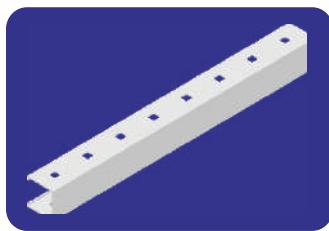
Cantilever Support
35x80mm
cross section for
Heavy Duty
Applications



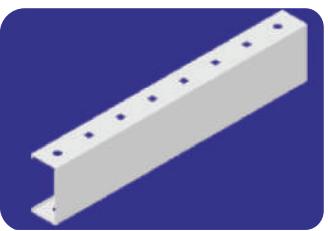
Cantilever Arm Prop



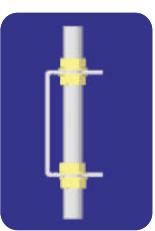
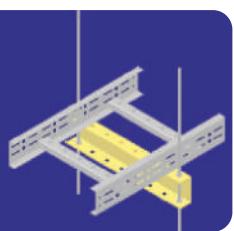
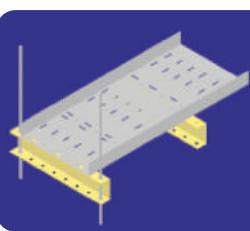
Hanger Support and Accessories



Hanger Support
35x40mm
cross section for
General Duty
Applications

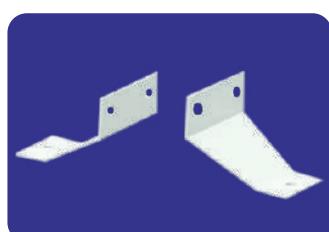


Hanger Support
35x80mm
cross section for
Heavy Duty
Applications



Hanger supports are hanged by M10 threaded rod. The hanger support has an extra width of 40mm rather than a cable tray or ladder with a 10mm hole to take M10 threaded rod.

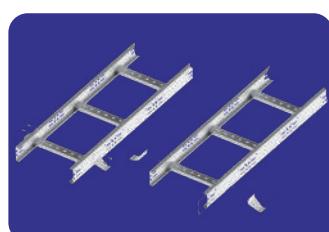
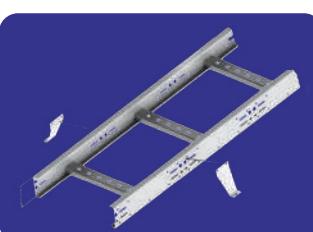
Holes on the cantilever support & hanger support can be used to bolt cable trays & ladders on to it. In case of holes on cantilever support or hanger support is not coincide with holes on cable ladder rung, ladder fixing brackets can be used. Holes on the cantilever support & hanger support can be used to fix data cable pipes, fiber optics cable pipes, compressed air pipes, water pipes, air conditioner pipes, gas pipes, lamps, signs, etc.



Cable Ladder Fixing Bracket



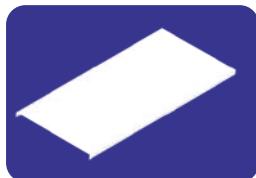
Cable Ladder Elevated
Fixing Bracket



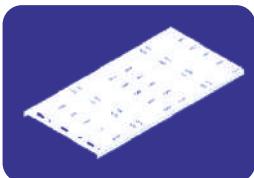
COVERS

AXEL offers a wide variety of Cable Trays & Ladder Covers to provide protection for the cables run on the Cable Tray or Ladder from sunlight, environmental elements, dirt, debris and falling objects etc. The range includes straight covers and accessory covers in different types to ensure the Continuity of the system.

Straight Covers



Plain Cover



Ventilated Cover



Canopy Type Cover



Elevated Cover Bracket



Stacked Covers

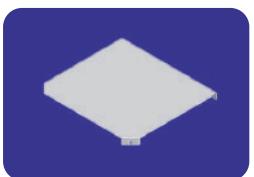
Accessory Covers



45 Flat Bend Cover



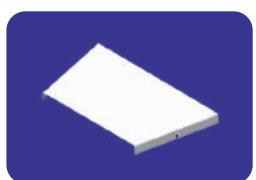
90 Flat Bend Cover



Flat Equal Tee Cover



4 Way Equal
Intersection Cover



Reducer Cover



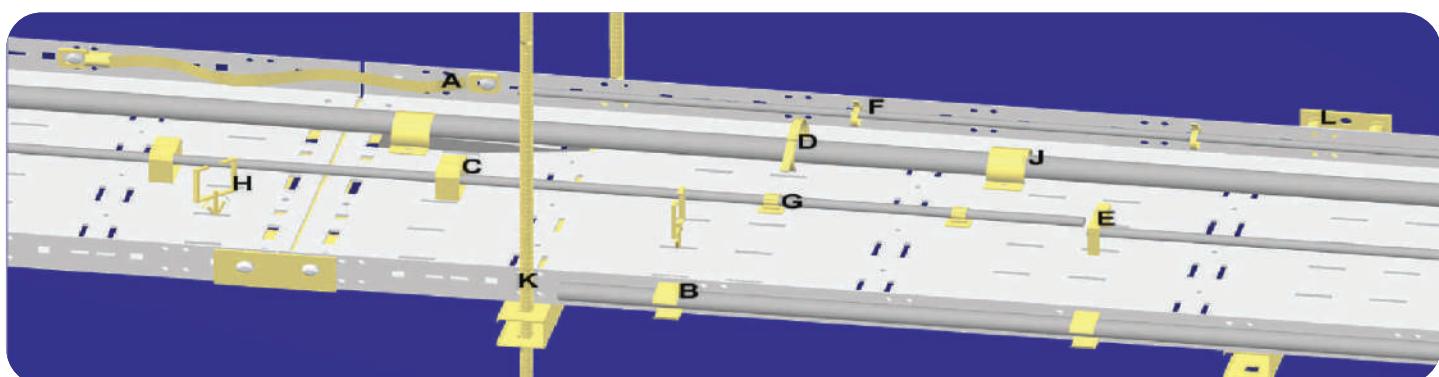
Internal 90
Riser Bend Cover



External 90
Riser Bend cover

AXEL Cable Tray or Ladder covers are available in different materials and finished to match with the cable tray and ladder system.

GENERAL ACCESSORIES



A - Earth Bonding
Strap



B - Conduit Clamps
- PVC



C - Cable Retainer



D - Cable Tray Fixing
Ties



E - Cable Tie Mounts



F - Cable Ties - SS



G - Cable Clamps



H - Wire Saddle



J - Cable Clamps
- Steel



K - Threader Rods



L - Anchor Bolts

TECHNICAL SPECIFICATIONS

1. Independent Laboratory Tests

AXEL Cable Trays and Ladders are tested at UKAS accredited laboratory in the UK

1. Salt spray test

2. Safe work load test

  Test Report Number 9425-1 Issue 1 Date of Issue: 29/10/2018 Reason for Re-issue: N/A Customer Name and Address: AP LANKA (PVT) LTD No 163/2A, Navas Road, Colombo - 05, Sri Lanka Customer Purchase Order No: Pro-Forma		Galt Mat Testing 600 hours AXEL Cable Tray Limited circulation only Page 1 of 7 Description of Test Samples: 1 nos. Cable Tray Identity/Serial Numbers: Identified as '1' for testing purposes Test(s) Performed in the following order unless otherwise specified: In Accordance With: Salt Mist Testing UKAS ASTM B117-16 Report Summary: The sample content was subjected to the test detailed above, the particulars and methodology of which are contained in the test report. On 10/08/2018 the chamber was opened for a period of 1 hour for sample checks and checking of the spray assembly. It was agreed with the customer via email that the test duration would be extended by 1 hour to compensate for this. Apart from the duration noted above the test completed correctly. Some discolouration was noted on 29/08/2018 after 8 days of salt exposure and further discolouration was noted the following day (30/08/2018), particularly around cut-out sections on the cable tray. The customer requested that the test samples were disposed of on conclusion of the test. Distribution: 1. PARC Ltd File 2. AP LANKA (PVT) LTD Sample Disposal: Sample/s disposed of at the instruction of the customer Approved by: Sam Wark, Senior Test Engineer  Digitally signed by Sam Wark on 29/10/2018 10:27	
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  Test Report Number 9425-1 Issue 1 Date of Issue: 29/10/2018 Reason for Re-issue: N/A Customer Name and Address: AP LANKA (PVT) LTD No 163/2A, Navas Road, Colombo - 05, Sri Lanka Customer Purchase Order No: Pro-Forma		Salt Mat Testing 600 hours AXEL Cable Ladder Limited circulation only Page 1 of 7 Description of Test Samples: 1 no. Cable Ladder Identity/Serial Numbers: Identified as '2' for testing purposes Test(s) Performed in the following order unless otherwise specified: In Accordance With: Salt Mist Testing UKAS ASTM B117-16 Report Summary: The sample content was subjected to the test detailed above, the particulars and methodology of which are contained in this test report. On 10/08/2018 the chamber was opened for a period of 1 hour for sample checks and checking of the spray assembly. It was agreed with the customer via email that the test duration would be extended by 1 hour to compensate for this. Apart from the deviation noted above the test completed correctly. Some discolouration was noted on 29/08/2018 after 8 days of salt exposure and further discolouration was noted the following day (30/08/2018), particularly around screw heads on the cable ladder. The customer requested that the test samples were disposed of on conclusion of the test. Distribution: 1. PARC Ltd File 2. AP LANKA (PVT) LTD Sample Disposal: Sample/s disposed of at the instruction of the customer Approved by: Sam Wark, Senior Test Engineer  Digitally signed by Sam Wark on 29/10/2018 10:27	
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  Test Report Number 9680 - Issue 1 Date of Issue: 07/02/2019 Reason for Re-issue: N/A Customer Name and Address: AP LANKA (PVT) LTD No 163/2A, Navas Road, Colombo - 05, Sri Lanka Customer Purchase Order No: Pro-Forma		Salt Mat Testing 600 hours AXEL Cable Tray - EG Powder Coated Limited circulation only Page 1 of 7 Description of Test Sample: None. Identified as test sample 1 for test purposes Test(s) Performed in the following order unless otherwise specified: In Accordance With: Salt Mist Testing UKAS ASTM B117-16 Report Summary: The sample content was subjected to the test detailed above, the particulars and methodology of which are contained in this test report. The testing completed correctly. On completion of testing the test sample was disposed of at the customer's request. Distribution: 1. PARC Ltd File 2. AP LANKA (PVT) LTD Sample Disposal: Sample/s disposed of at the instruction of the customer Approved by: Sam Wark, Senior Test Engineer  Digitally signed by Sam Wark on 07/02/2019 10:27	
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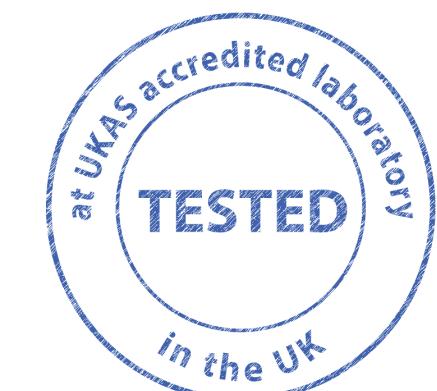
Salt Spray Test (Corrosion Resistance Test) 600hrs In accordance with ASTMB 117-16 Standards Cable Tray HDGA

Salt Spray Test (Corrosion Resistance Test) 600hrs In accordance with ASTMB 117-16 Standards Cable Ladder HDGA

Salt Spray Test (Corrosion Resistance Test) 200hrs In accordance with ASTMB 117-16 Standards Cable Tray EG

  Test Report Number 9425-2A Issue 1 Date of Issue: 26/02/2019 Reason for Re-issue: N/A Customer Name and Address: AP LANKA (PVT) LTD No 163/2A, Navas Road, Colombo - 05, Sri Lanka Customer Purchase Order No: Pro-Forma		Safe Working Load (SWL) Testing AXEL Cable Tray 300mmx300mmx2400mm, Steel thickness 1.5mm Sample 1 Test Performed in the following order unless otherwise specified: In Accordance With: Safe Working Load (SWL) Testing In accordance with customer email dated 04/07/18 and 21/01/2019, broadly in accordance IEC 61357:2006 Report Summary: The sample content was subjected to the test detailed above, the particulars and methodology of which are contained in this test report. Load test deflections recorded during testing are listed below: Sample 1 Cable Tray 120Kg Load applied Deflection at point A = 0.24mm Deflection at point B = 1.49mm 100Kg Load applied Deflection at point A = 0.31mm Deflection at point B = 3.24mm Distribution: 1. PARC Ltd File 2. AP LANKA (PVT) LTD Sample Disposal: Sample/s disposed of at the instruction of the customer Approved by: Nick Fishwick, Senior Project Engineer  Digitally signed by Nick Fishwick on 26/02/2019 09:31	
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  Test Report Number 9425-2B Issue 1 Date of Issue: 26/02/2019 Reason for Re-issue: N/A Customer Name and Address: AP LANKA (PVT) LTD No 163/2A, Navas Road, Colombo - 05, Sri Lanka Customer Purchase Order No: Pro-Forma		Safe Working Load (SWL) Testing AXEL Cable Ladder 300mmx375mmx2400mm, Steel thickness 1.5mm Limited circulation only Page 1 of 8 Description of Test Samples: AXEL Cable Ladder 300mmx375mmx2400mm, Steel thickness 1.5mm Identity/Serial Numbers: Sample 2 Test Performed in the following order unless otherwise specified: In Accordance With: Safe Working Load (SWL) Testing In accordance with customer email dated 04/07/18 and 21/01/2019, broadly in accordance IEC 61357:2006 Report Summary: The sample content was subjected to the test detailed above, the particulars and methodology of which are contained in this test report. The load test deflections recorded during testing are listed below: Sample 2 Cable Ladder 120Kg Load applied Deflection at point A = 0.36mm Deflection at point B = 0.54mm 300Kg Load applied Deflection at point A = 1.06mm Deflection at point B = 1.782mm 450Kg Load applied Deflection at point A = 1.41mm Deflection at point B = 2.37mm 704Kg Load applied Deflection at point A = 1.44mm Deflection at point B = 8.67mm Distribution: 1. PARC Ltd File 2. AP LANKA (PVT) LTD Sample Disposal: Sample/s disposed of at the instruction of the customer Approved by: Nick Fishwick, Senior Project Engineer  Digitally signed by Nick Fishwick on 26/02/2019 09:31	
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Safe Work Load (SWL) Test In accordance with IEC 61357:2006 Standards Cable Tray

Safe Work Load (SWL) Test In accordance with IEC 61357:2006 Standards Cable Ladder

TECHNICAL SPECIFICATIONS

2. Conform to BS EN ISO 61537 Standard

AXEL cable tray & ladder system, components and accessories are designed and manufactured conform with the BS EN ISO 61537:2002 (Cable tray systems and cable ladder systems for cable management)

Reference Standards

The following is a list of the standards relating to cable management products which refer to the design & manufacture of the AXEL cable tray & ladder system.

BS 6946:1988	Specification for metal channel cable support systems for electrical installations.
BS EN 50085-1:1999	Cable trunking and cable ducting systems for electrical installations. General requirements (formerly BS 4678 Part 1)
BS EN 61537:2002	Cable tray systems & cable ladder systems for cable management.
IEC 61537:2001	Cable tray systems & cable ladder systems for cable management.
NEMA VE 1-1998 Metal	Cable Tray Systems (also CSA International C22.2 No 126.1-98).
NEMA VE 2-2000	Cable Tray Installation Guidelines.

3. Electromagnetic Compatibility (EMC)

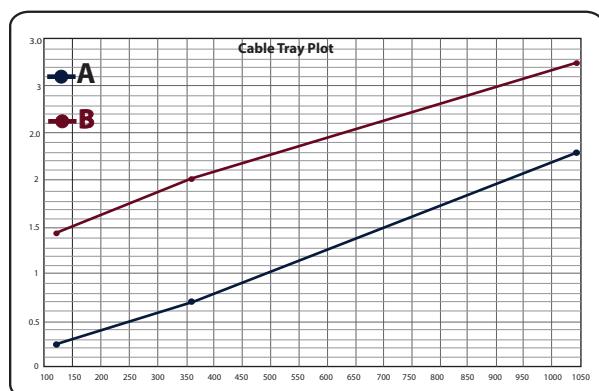
In general, using AXEL cable tray & ladder system can be considered to be passive in respect of electromagnetic influences, emission and immunity. When AXEL cable ladder is installed as a part of a wiring installation, the installation may emit or may be influenced by electromagnetic signals. The degree of influence will depend on the nature of the installation within its operating environment and the electrical equipment connected by the wiring. As a minimum precaution to minimize the occurrence of electromagnetic influences, Power and data/signal cables should be run on separate cable routings or separated by means of AXEL dividing fillets.

4. Electrical Continuity Characteristics

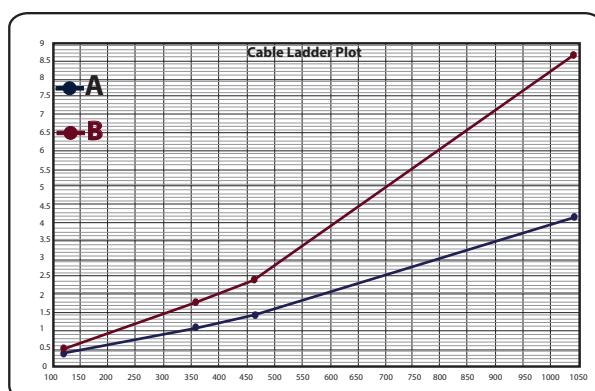
In tests conducted to verify the electrical continuity characteristics of the AXEL cable tray & ladder system, it has been established that the standard AXEL coupling system which provides adequate electrical continuity, ensuring equipotential bonding and connection to earth.

The AXEL cable ladder system has been manufactured for electrical continuity to BS EN 61537:2002. Earth continuity bonding straps of cross sectional area 16mm² are available for use with AXEL cable ladder where a non-conductive surface, finish i.e. epoxy coated etc, has been specified or where the installation requires an additional means of bonding.

5. Load Deflection



Cable Tray



Cable Ladder

6. Material Specification

Product	Materials & Finishes	Material Thickness
Cable Trays - X series	EG or HDGA sheet metal and painted	1.0mm -1.5mm
Cable Tray - STD series	EG or HDGA sheet metal and painted	1.0mm -1.5mm
Cable Ladders	EG or HDGA sheet metal and painted	1.5mm - 2.0mm
Cable Trunkings	EG or HDGA sheet metal and painted	0.6mm - 0.8mm
Floor Trunkings	Al/Zn or HDGA sheet metal and unpainted or painted	Base 1.0mm -1.5mm, cover 1.0mm - 2.0mm
Support System	EG or HDGA sheet metal and painted	1.5mm or 2.0mm
Covers	EG or HDGA sheet metal and painted	1.0mm -1.2mm

7. Paint Specifications

Color - RAL 9006 or RAL 7032 or any other color on request

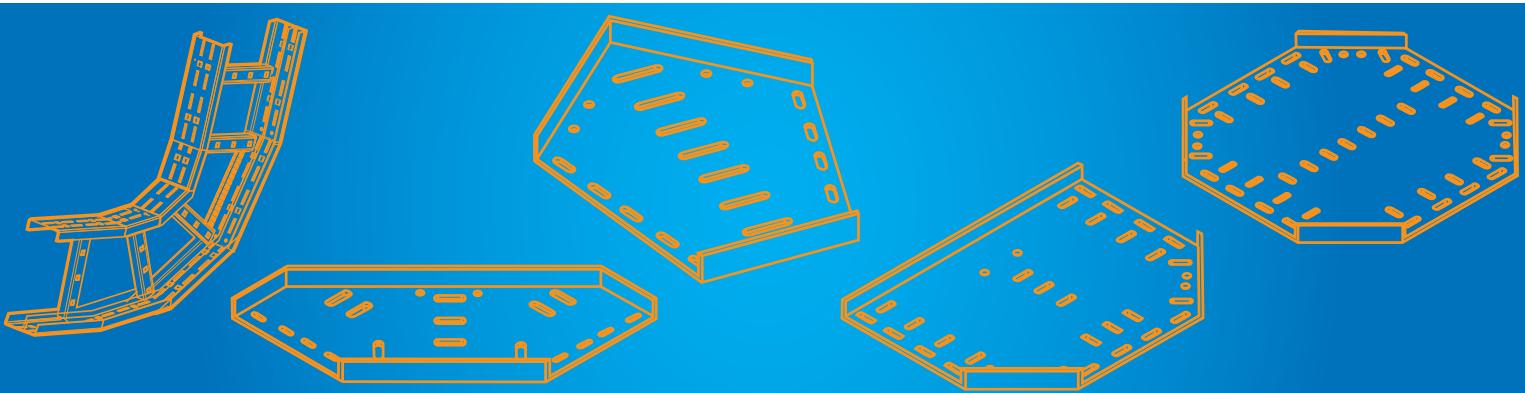
Type - Epoxy polyester powder

Gloss Level - Semi Gloss 50-70%

Coating Thickness - 60-80µm , Stoved at 180°C

Per-Treatment - High pressure spray of water and phosphating chemicals for de-greasing, de-rusting and phosphating.

Per - heating & curing - Electrical IR (Infra Red) heaters.



www.cablemanagements.com
Cable Management Systems



Cable Trays | Cable Ladders | Cable Trunkings | Floor Trunkings
Corporate office - 163/26, Nawala Road, Colombo-05, Sri Lanka.

email: sales@cablemanagements.com

Sole Distributor in Sri Lanka



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