



ENHANCED SPEEDWAY SW4 DETAILS

THRIVING IN
EXTREME
ENVIRONMENTS



EXTREME CABLE MANAGEMENT

VANTRUNK SPEEDWAY

THE ENHANCED SPEEDWAY EXTREME CABLE LADDER SYSTEM

THE SPEEDWAY CABLE LADDER SYSTEM REPRESENTS A MAJOR ADVANCE IN CABLE LADDER DESIGN, PROVIDING FASTER & EASIER INSTALLATION, GREATER CABLE FILL CAPACITY AND TOTAL FLEXIBILITY.

SPEEDLOK

Quick Assembly
Cable Ladder



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Solutions



Rapid
Installation
Systems



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Steel



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extreme
temperatures
(-50° to +50°C)

INTRO

At Vantrunk our commitment to continual improvement has lead us to further enhance our Speedway SW4 Cable Ladder. This supplement provides a handy guide for the newly updated products and the associated information changes.

This supplement should be used to reference these products until the launch of the new Vantrunk Product Guide in 2014.

UPDATED PRODUCTS

| Supplement Page | Product Guide Page | Product |
|-----------------|--------------------|------------------------------|
| 6 | 35 | Speedway SW4 Cable Ladder |
| 7 | 65 | sw4 Straight Coupler |
| 8 | 75 | External Flange clamp |
| 10 | 76 | Adaptable Fixing Bracket |
| 11 | 78 | Speedway Hold Down Bracket |
| 12 | 79 | Angle Securing Bracket |
| 13 | 82 | Structural Connector Bracket |

HOW TO ORDER

CODE SYSTEM EXPLAINED

The information given on these pages should be used as a guide when ordering Speedway Cable Ladder, Fittings and Accessories. For more detailed information and examples refer to the relevant page within the catalogue.

| System Type | Ladder Type | Width | Finish & Material |
|-------------|-------------|-------|-------------------|
| eg. SW4 | SL3 | 300 | GY |

| System Type | Coupler Type | Finish & Material |
|-------------|--------------|-------------------|
| eg. SW4 | CS | GA |

| System Type | Cover Type | Ladder Type | Width | Finish & Material |
|-------------|------------|-------------|-------|-------------------|
| eg. SW4 | CC | SL3 | 300 | GX |

Finish and Materials (🔑)

GY

HOT DIPPED GALVANIZED VANTRUNK EXTREME STEEL

GA

HOT DIPPED GALVANIZED VANTRUNK MILD STEEL

GK

HOT DIPPED GALVANIZED VANTRUNK SILICON RICH STRUCTURAL STEEL

GX

DEEP GALVANIZED VANTRUNK SILICON RICH STRUCTURAL STEEL

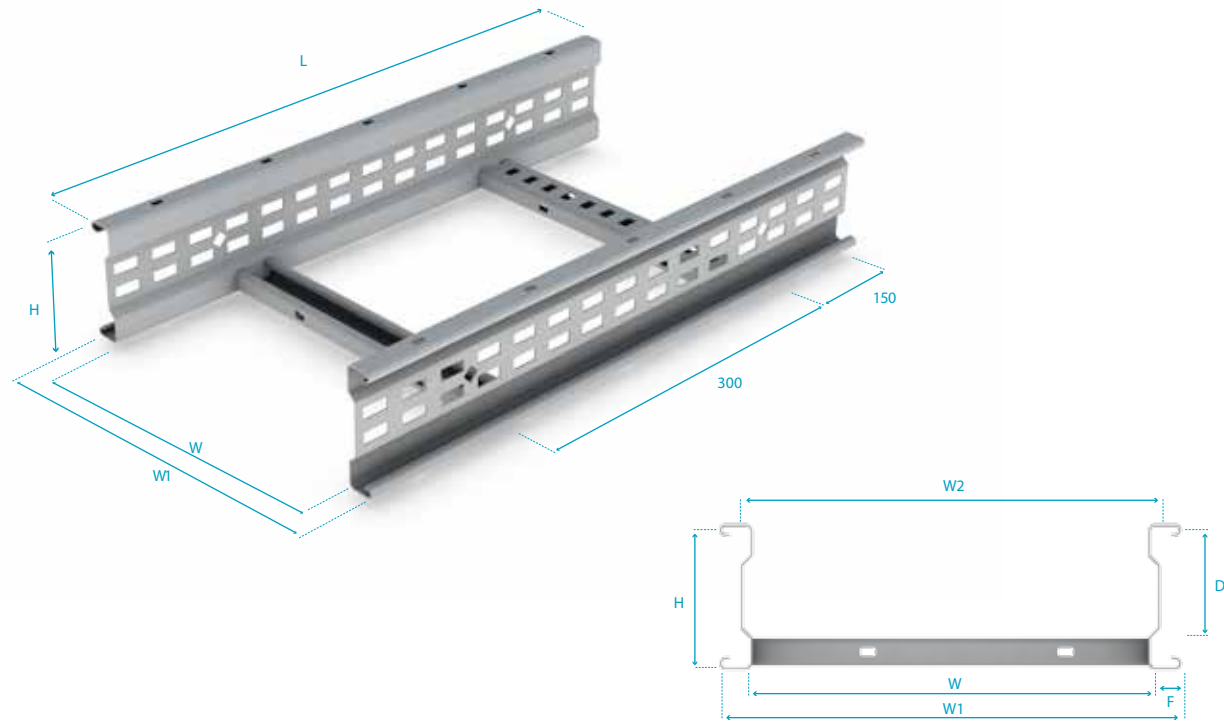
SS

MARINE GRADE STAINLESS STEEL

Speedway SW4 Cable Ladder

Speedway 4 (SW4) Medium Duty Cable Ladder is manufactured in 3.0m lengths as standard with 6.0m lengths to order. The cable ladder is available in standard widths of 150mm, 300mm, 450mm, 600mm, 750mm and 900mm, although other widths up to 1050mm are available to order. Rung spacing is 300mm as standard.

Ref.SW4



| Part Number | No. of Rungs | Dimensions (mm) | | | | Weight (kg) |
|---------------|--------------|-----------------|-----|------|-----|-------------|
| | | W | W1 | L | H | |
| SW4/SL3/150/O | 10 | 150 | 200 | 3000 | 110 | 13.93 |
| SW4/SL3/300/O | | 300 | 350 | | | 15.55 |
| SW4/SL3/450/O | | 450 | 500 | | | 17.17 |
| SW4/SL3/600/O | | 600 | 650 | | | 18.79 |
| SW4/SL3/750/O | | 750 | 800 | | | 23.12 |
| SW4/SL3/900/O | | 900 | 950 | | | 25.28 |

| | | |
|------------------------|----|-----------------|
| Height | H | 110mm |
| Loading Depth | D | 85mm |
| Ladder Width | W | 100mm to 1050mm |
| Maximum Internal Width | W2 | W + 14mm |
| Overall Width | W1 | W + 50mm |
| Flange Width | F | 25mm |

O= Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).



SW4 Straight Coupler

Ref.SW4/CS



Part Number
SW4/CS/O



Showing assembly detail onto ladder. Supplied with 4 fixings per coupler

O= Select a Finish & Material



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External Flange Clamp

Ref.EFC

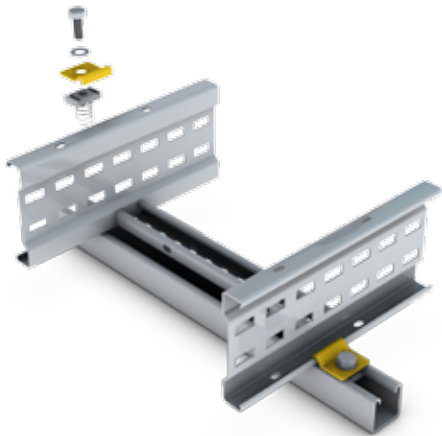
The External Flange Clamp (EFC) forms a simple but effective means of connecting Speedway Cable Ladder and Fittings to the supporting structure.

Designed for use with either channel (BS 6946 strut type) or structural steelwork, the external flange clamp has an M10 clearance hole.

Forming a secure clamping attachment onto the bottom flange of the Speedway profile, the external flange clamp can be used with all Speedway SW4, SW5, & SW6 cable ladder and fittings.

The External Flange Clamp is suitable for securing horizontal runs of Speedway Cable Ladder and Fittings in the horizontal plane.

External Flange Clamps are not suitable for supporting Speedway Cable Ladder installed as part of a vertical run.



The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table below for details of the fixing bolts.

| Part Number | Thread Length | Description |
|-------------|---------------|------------------------|
| OM10x25 | 25 | M10 x 25 Hex Head Bolt |
| OM10x30 | 30 | M10 x 30 Hex Head Bolt |
| OM10x35 | 35 | M10 x 35 Hex Head Bolt |
| OM10x40 | 40 | M10 x 40 Hex Head Bolt |

Part Number
SW/EFC/O

Finishes & Materials:
GA SS GX GK

Supplied with:
MOUNTING FIXINGS
NOT INCLUDED

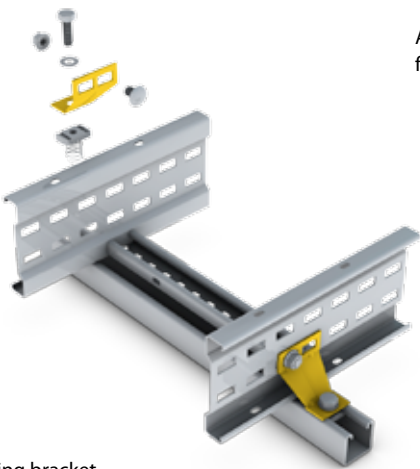
O= Select a Finish & Material

The following table gives the recommended fixing hole centres and general dimensions when using External Flange Clamps.

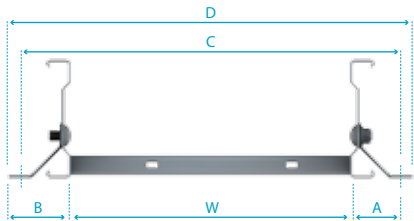
| Ladder Type | Dimensions (mm) | | | |
|--------------|-----------------|----|------|-------|
| | A | B | C | D |
| Speedway SW4 | 44.5 | 55 | W+89 | W+110 |
| Speedway SW5 | | | | |
| Speedway SW6 | | | | |

W = Ladder Width

Adaptable Fixing Bracket Ref.AFB



Adaptable fixing bracket used to secure Speedway cable ladder to channel



Adaptable fixing bracket located externally on cable ladder

| Ladder Type | Dimensions (mm) | | | |
|--------------|-----------------|------|-------|-------|
| | A | B | C | D |
| Speedway SW4 | 53.5 | 64.5 | W+102 | W+129 |
| Speedway SW5 | | | | |
| Speedway SW6 | | | | |

W = Ladder Width

| Part Number | Thread Length | Description |
|-------------|---------------|------------------------|
| OM10x25 | 25 | M10 x 25 Hex Head Bolt |
| OM10x30 | 30 | M10 x 30 Hex Head Bolt |
| OM10x35 | 35 | M10 x 35 Hex Head Bolt |
| OM10x40 | 40 | M10 x 40 Hex Head Bolt |

Part Number
SW/AFB/O

Finishes & Materials:
GA SS GX GK

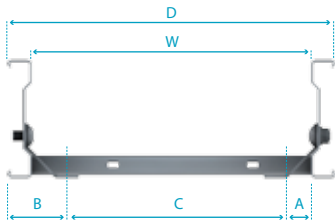
Supplied with:
MOUNTING FIXINGS
NOT INCLUDED

O= Select a Finish & Material

Adaptable fixing bracket can be fitted internally to save space



Adaptable fixing bracket used to secure Speedway cable ladder to structural steelwork



Adaptable fixing bracket located internally on cable ladder

| Ladder Type | Dimensions (mm) | | | |
|--------------|-----------------|----|--------|------|
| | A | B | C | D |
| Speedway SW4 | 39.5 | 65 | W / 79 | W+50 |
| Speedway SW5 | | | | |
| Speedway SW6 | | | | |

These tables give the recommended fixing hole centres and general dimensions when using adaptable fixing brackets.

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table (left) for details of the fixing bolts.

Speedway Hold Down Bracket

Ref.HDB

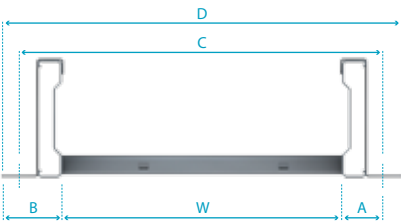
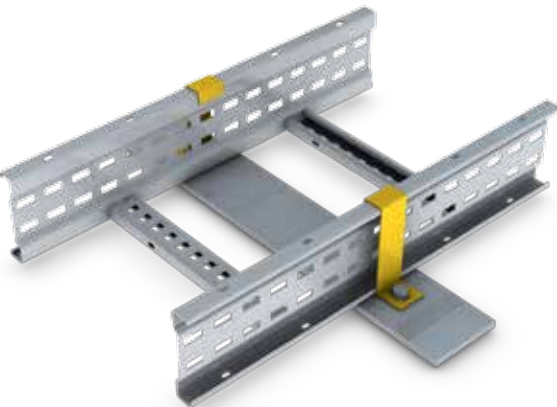
The Speedway Hold Down Bracket (HDB) is a simple but effective means of securing Speedway Cable Ladder and Fittings to the supporting structure. The Hold Down Bracket has a single M10 clearance slot which allows for easy adjustment to suit predrilled fixing holes in the supporting structure. The Hold Down Bracket is equally suited for installation on channel (BS 6946 strut type) or steelwork.

Fixings not supplied.

Hold Down Brackets are not suitable for supporting Speedway Cable Ladder installed as part of a vertical run.



25mm x 11.5mm slot



Speedway hold down bracket fitted onto Speedway cable ladder

| Ladder Type | Dimensions (mm) | | | |
|--------------|-----------------|----|------|-------|
| | A | B | C | D |
| Speedway SW4 | 45 | 65 | W+90 | W+130 |
| Speedway SW5 | | | | |
| Speedway SW6 | | | | |

| Part Number | W = Ladder Width |
|-------------|------------------|
| SW△/HDB/○ | |

Finishes & Materials:

GA SS GX GK

△ = Select a Ladder Type
○ = Select a Finish & Material

Supplied with:

x0

MOUNTING FIXINGS NOT INCLUDED

| Part Number | Thread Length | Description |
|-------------|---------------|------------------------|
| OM10x25 | 25 | M10 x 25 Hex Head Bolt |
| OM10x30 | 30 | M10 x 30 Hex Head Bolt |
| OM10x35 | 35 | M10 x 35 Hex Head Bolt |
| OM10x40 | 40 | M10 x 40 Hex Head Bolt |

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table above for details of the fixing bolts.

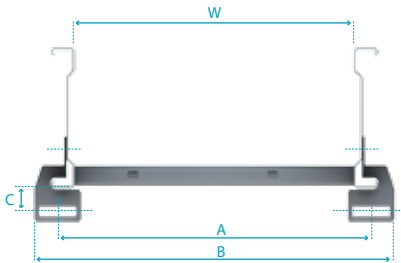
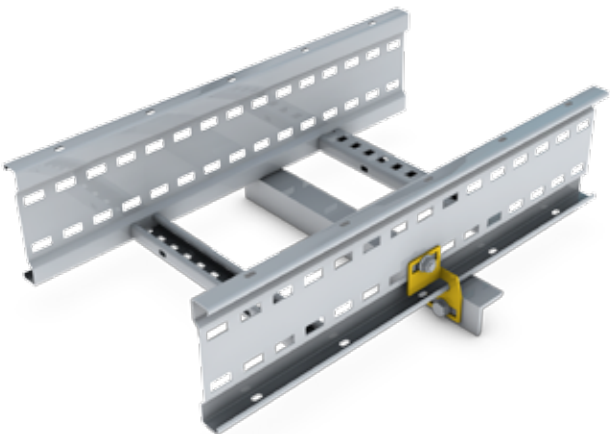
Angle Securing Bracket

Ref.ASB

The Speedway Angle Securing Bracket (ASB) is designed to connect Speedway SW4, SW5, & SW6 Cable Ladder to supporting structural angles. The 40mm x 11.5mm slots in both faces of the Angle Securing Bracket make installation quick & easy (M10 fixing recommended). The Angle Securing Bracket is supplied with one ladder fixing bracket as standard.



Supplied with one ladder fixing.



Speedway angle securing bracket fitted onto Speedway cable ladder

| Ladder Type | Dimensions (mm) | | |
|--------------|-----------------|------|----|
| | A | B | C |
| Speedway SW4 | W+36 | W+86 | 24 |
| Speedway SW5 | | | |
| Speedway SW6 | | | |

| Part Number | W = Ladder Width |
|-------------|------------------|
| SW/ASB/○ | |

Finishes & Materials:

GA SS GX GK

○ = Select a Finish & Material

Supplied with:

x1

MOUNTING FIXINGS NOT INCLUDED

| Part Number | Thread Length | Description |
|-------------|---------------|------------------------|
| OM10x25 | 25 | M10 x 25 Hex Head Bolt |
| OM10x30 | 30 | M10 x 30 Hex Head Bolt |
| OM10x35 | 35 | M10 x 25 Hex Head Bolt |
| OM10x40 | 40 | M10 x 30 Hex Head Bolt |

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table above for details of the fixing bolts.

Structural Connector Bracket

Ref.ASB

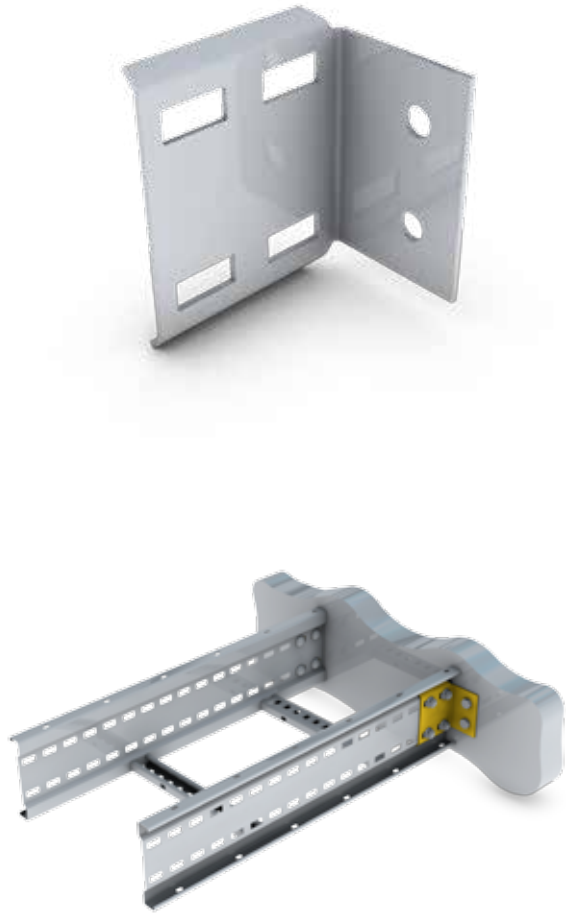
As an alternative to using a vertical adjustable coupler, the Speedway Structural Connector Bracket (SCB) is specifically designed for connecting Speedway Cable Ladder runs to walls and floors.

The Structural Connector Bracket has two 11mm diameter (M10 clearance) fixing holes and is supplied complete with all necessary ladder fixing sets.

Supplied with ladder fixing sets only



Speedway structural connecting bracket securing horizontal cable ladder to vertical channel support



Speedway structural connector bracket securing a horizontal cable ladder to a wall

| Ladder Type | Dimensions (mm) | | | | |
|--------------|-----------------|----|------|-------|----|
| | A | B | C | D | E |
| Speedway SW4 | | | | | |
| Speedway SW5 | 47 | 67 | W+94 | W+134 | 30 |
| Speedway SW6 | | | | | |

Part Number
SW△/SCB/○

W = Ladder Width

Finishes & Materials:

Supplied with:
 x4
MOUNTING FIXINGS NOT INCLUDED

△ = Select a Ladder Type
○ = Select a Finish & Material

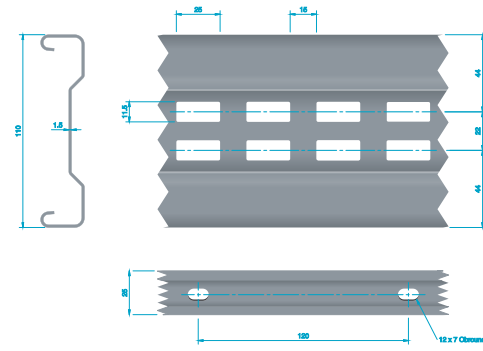
SPEEDWAY
TECHNICAL DATA

1. GENERAL INFORMATION

1.1 Slot Patterns

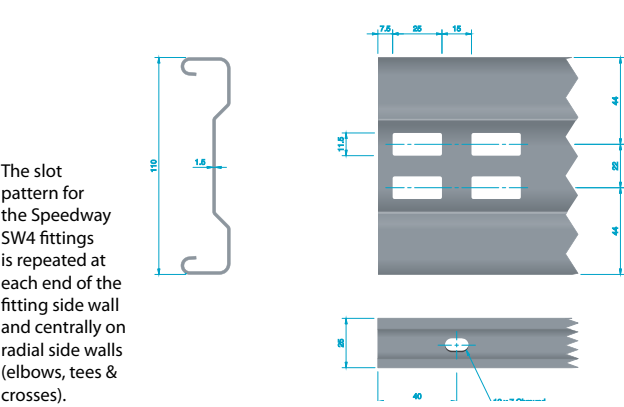
Details of the slot patterns for the Speedway cable ladder system are given in the following diagrams. These slot patterns are common for each Speedway cable ladder type, irrespective of material gauge.

Speedway SW4 Straight Ladder



T = Side Wall Gauge (See section 1.2 for details).

Speedway SW4 Fittings



1.2 Cross Sectional Area

| Speedway SW4 Ladder | CSA mm2 |
|---------------------|---------|
| SW4/SL3/150/# | 13780 |
| SW4/SL3/300/# | 26740 |
| SW4/SL3/450/# | 39700 |
| SW4/SL3/600/# | 52660 |
| SW4/SL3/750/# | 65620 |
| SW4/SL3/900/# | 78580 |

Speedway cable ladder has the following cross/sectional area (CSA)

Add Finish & Material

The longitudinal side members shall form the main structural elements of the cable ladder system and shall be longitudinally ribbed for enhanced stiffness and rigidity.

- The profile of the side members shall remain constant for the straight cable ladder and the cable ladder fittings.
- The profile of the side members shall present a smooth surface to allow for easier cable pulling and to minimise the opportunities for damage to the cable insulation.
- The longitudinal side members shall have a height of:
 - 110mm and a flange width of 25mm
- The longitudinal side member shall have a wall thickness of:
 - 1.5mm*
 - or required side wall thickness – see 1.2 for details.

1.3 SW4 Specification

The following is a typical specification for a cable ladder system which embodies the key features of the Speedway SW4 Cable Ladder system.

- The cable ladder system shall be based on two longitudinal outward facing side members with returned edge flanges to improve safety during handling, installation and cable pulling activities.

- 6

The side members of the straight cable ladder shall be fully slotted to minimise weight. The slot pattern in the side members shall allow for cutting of the straight cable ladder at any point along the length without the need to drill the side member when connecting to adjacent straight cable ladder and cable ladder fittings using the standard means of coupling.
- 7

The two longitudinal side members shall be connected by individual transverse members (rungs) which shall be welded at low level to the inside face of the side members to give a loading depth of:

• 85mm
- 8

The transverse members shall be evenly spaced at 300mm centres along the length of the straight cable ladder. The transverse members for horizontal bends (flat elbows) shall be located at either 0° or 7.5° and multiples there of around the fitting subject to a maximum spacing of 465mm between adjacent transverse members when measured as a linear distance along the outside face of the horizontal bend. The transverse members for horizontal intersection fittings (tees and crosses) shall be evenly spaced at intervals not exceeding 465mm. The transverse members for vertical bends (inside and outside risers) shall be evenly spaced at intervals not exceeding 300mm centres.
- 9

The transverse members shall be of channel profile with a width of 41mm and a height of 21mm. The transverse members shall have a continuous open slot to suit the mounting of cable restraint devices (cleats, etc.) and other equipment using standard channel nuts and fixings. The base of the transverse members shall have slots of size 18mm x 11mm at 25mm centres to suit the use of cable ties and banding.
- 10

The transverse members shall have a wall thickness of:

Hot Dip Galvanised Finish;

1.5mm* for widths up to and including 600mm, and a wall thickness of 2.0mm* for widths above 600mm

Stainless Steel;

1.5mm*

Deep Galvanised Finish;

1.5mm*

* or required rung wall thickness – see 1.2 for details.
- 11

The transverse members for straight cable ladder shall be orientated with the continuous slot facing alternately upwards and downwards. The transverse members for cable ladder fittings shall be orientated with the continuous slot facing upwards to allow for the securing of cable restraint devices (cleats, etc.) at every rung position.
- 12

The width of the straight cable ladder and the cable ladder fittings shall be measured relative to the inside faces of the side members. The widths of the straight cable ladder and cable ladder fittings shall be 150mm, 300mm, 450mm, 600mm, 750mm & 900mm.
- 13

The straight cable ladder shall have a length of 3000mm or 6000mm as specified.
- 14

The cable ladder fittings shall have fixed angles of 90°, 60°, 45° and 30°.
- 15

Radial cable ladder fittings shall have a radius of 300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm. The radius of the fitting shall be measured relative to the inside face on the radial side wall.
- 16

The cable ladder system shall be manufactured using:

For Mild Steel – Hot Dip Galvanized Finish; mild steel of grade D11 to BS EN 10111 and shall be hot dip galvanized after manufacture to BS EN ISO 1461.

For stainless steel: stainless steel grade 1.4404 (316 marine grade) to BS EN 10088.

For Silicon/rich Steel – Deep Galvanized Finish; silicon/rich steel (generally complying to grade S355 to BS EN 10025) and shall be deep galvanized after manufacture to twice the coating thickness specified by BS EN ISO 1461.
- 17

The couplers shall be profiled to match the profile of the cable ladder. The couplers shall be secured using M10 square/shouldered bolts with rounded heads. The bolts shall be secured with M10 serrated flanged nuts as standard. The couplers shall have a slot pattern which prevents slip between adjacent straight ladder lengths (including cut lengths of straight cable ladder) and between cable ladder fittings. The couplers shall have a slot pattern which allows for easy connection to cut lengths of straight cable ladder without the need for on / site drilling.

2. LOADING INFORMATION

2.1 Load-Deflection Tables

When correctly mounted and secured, cable ladder can be considered to be a ‘continuous beam’. This implies that the cable ladder run is regularly supported and that the cable ladders at the extremities of the run are firmly anchored. The following tables are used to calculate the safe working load and have been verified by testing in accordance to BS EN 61537 .The load bearing capacity of a cable ladder is limited by the lesser of the maximum allowable stress induced in the side members and rungs or the maximum deflection acceptable in the same members. The maximum allowable stress is usually limited by the materials lower yield stress; this gives a safety factor of 1.7 against the ultimate tensile strength.

Maximum deflection, (in the absence of a particular customer need) is not allowed to exceed 1/360th of the distance between supports (span) longitudinally or 1/200th of the rung length (cable ladder width) transversely. Although unusual, there may be occasions when it is difficult or indeed impossible to anchor the cable ladder securely in position. Under these circumstances the ladder is ‘simply supported’ and its load bearing ability is substantially reduced. As a rough guide maximum loads should be limited to two thirds of those shown in the loading tables and increased deflection values should be accepted for each span.

The data given in the tables is for Vantrunk cable ladder installed as a continuous beam and allows for the weight of the ladder itself. The safe working load values represent a uniformly distributed load and a factor of 1.7 as recommended in the cable ladder European standard. This information is given for guidance only and larger safety factors can be used depending on the installation.

The Speedway Cable Ladder system, components and accessories have been tested to BS EN ISO 61537.

Further details can be provided by our Design Team.

Loading Data - Vantrunk Extreme Steel Hot Dip Galvnaized Finish

| Ladder Type | Width w mm | Span & Safe Working Load kg/m | | | | | | | | |
|---------------|---------------|-------------------------------|------|-----|------|-----|------|----|------|----|
| | | 2m | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| SW4/SL/150/GY | 150 | 769 | 491 | 339 | 248 | 189 | - | - | - | - |
| SW4/SL/300/GY | 300 | 769 | 490 | 339 | 247 | 188 | - | - | - | - |
| SW4/SL/450/GY | 450 | 768 | 489 | 338 | 247 | 188 | - | - | - | - |
| SW4/SL/600/GY | 600 | 542 | 489 | 338 | 246 | 246 | - | - | - | - |
| SW4/SL/750/GY | 750 | 428 | 428 | 336 | 245 | 186 | - | - | - | - |
| SW4/SL/900/GY | 900 | 294 | 294 | 294 | 244 | 185 | - | - | - | - |

Loading Data - 1.4404 Stainless Steel (316 Marine Grade)

| Ladder Type | Width w mm | Span & Safe Working Load kg/m | | | | | | | | |
|---------------|---------------|-------------------------------|------|-----|------|-----|------|----|------|----|
| | | 2m | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| SW4/SL/150/SS | 150 | 671 | 428 | 296 | 216 | 164 | - | - | - | - |
| SW4/SL/300/SS | 300 | 670 | 427 | 295 | 216 | 164 | - | - | - | - |
| SW4/SL/450/SS | 450 | 670 | 427 | 295 | 215 | 163 | - | - | - | - |
| SW4/SL/600/SS | 600 | 513 | 426 | 294 | 215 | 215 | - | - | - | - |
| SW4/SL/750/SS | 750 | 326 | 326 | 294 | 214 | 162 | - | - | - | - |
| SW4/SL/900/SS | 900 | 224 | 224 | 224 | 213 | 162 | - | - | - | - |

Loading Data - Silicon-rich Steel Deep Galvanized Finish

| Ladder Type | Width w mm | Span & Safe Working Load kg/m | | | | | | | | |
|---------------|---------------|-------------------------------|------|-----|------|-----|------|----|------|----|
| | | 2m | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| SW4/SL/150/GX | 150 | 966 | 616 | 426 | 312 | 238 | - | - | - | - |
| SW4/SL/300/GX | 300 | 965 | 616 | 426 | 311 | 237 | - | - | - | - |
| SW4/SL/450/GX | 450 | 941 | 615 | 425 | 311 | 237 | - | - | - | - |
| SW4/SL/600/GX | 600 | 526 | 526 | 425 | 310 | 310 | - | - | - | - |
| SW4/SL/750/GX | 750 | 334 | 334 | 334 | 310 | 235 | - | - | - | - |
| SW4/SL/900/GX | 900 | 229 | 229 | 229 | 229 | 229 | - | - | - | - |

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