

## C-Rail Festoon track systems

### Cable & Hose carrying systems

#### Application

C-Rail festoon track systems are the ideal solution for carrying cables supplying power to many types of moving machinery using either flat or round cables, typical uses include power feeds to hoists, factory cranes and pendant control systems. They can also be used to carry hoses for air, water, etc. A complete range of standard fittings is available for these systems along with a comprehensive selection of trolleys with carrying capacities up to 40kg / trolley. Standard track and components are manufactured from zinc plated steel and are suitable for the majority of industrial applications, where extra protection is required most components can be supplied with a polyester / epoxy coating and for extreme applications Stainless Steel track and components are also available. C-Rail festoon systems are also available for Ex rated Hazardous areas classified in Group 1 & 2 (Gas) & Group 21 & 22 (Dust) – details of these systems are shown later on in this section.

**System Calculations** (see drawing opposite)

#### System (Track size) selection

System 2331 – max cable stack = 58mm x 20mm, max trolley load = 20kg

System 2500 – max cable stack = 115mm x 50mm, max trolley load = 40kg

#### Cable Length

For correct installation the cable should never be pulled tight, we therefore recommend a 20% surplus be added to the overall track length, the calculation for cable length is shown below :

**Total cable length = (overall track length x 1.2 ) + required tail lengths.**

<i>Example</i>	Overall track length =15m
	Tail at Hoist end = 0.50m
	Tail at Feed end = 3m
	<b>Total cable length = (15 x 1.2) + 0.5 + 3 = 21.5m</b>

#### Number of Trolleys

The number of trolleys required in the system is determined by the cable loop depth, so using the information above we can calculate the number of trolleys

Required as follows :

**No. of trolleys = [(overall track length x 1.2 ) / (2 x Loop depth)] - 1**

<i>Example</i>	Overall track length =15m
	Loop depth = 0.75m
	No. of Trolleys = [(15 x 1.2) / (2 x 0.75)] - 1 = 11
	In addition you require 1 x Tow Trolley & 1 X End Anchor

#### Trolley selection

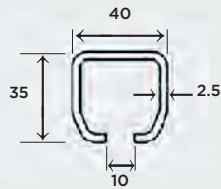
The correct trolleys should be selected by referring to the maximum cable stack, and maximum cable weight information shown on the trolley information on the following pages, maximum recommended cable stacks are calculated to ensure that trolley bodies will come together before the loops of cable clash or foul each other.

# System 2500 C-Rail Festoon System

## 40 x 35mm C-Rail Cable & Hose carrying system

### Track Profile

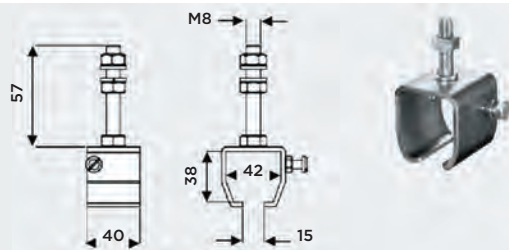
Part Code	Standard Length	Weight kg/m	Finish
2500-1	3 metres	2.22	Galv. Steel



Standard Profile Length = 3 Metres

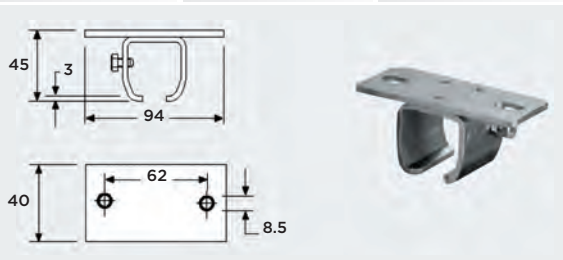
### Single Stud Support

Part Code	Finish	For use with
2500-4-R	Zinc Plated Steel	Galv. Steel Track
2500-4-R-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



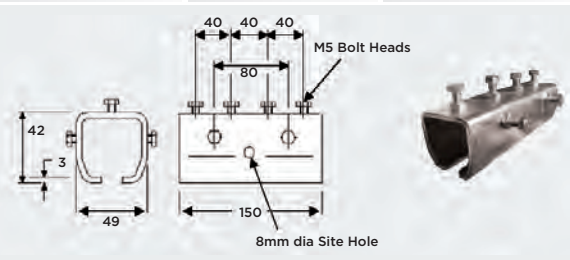
### Ceiling Support

Part Code	Finish	For use with
2500-4	Zinc Plated Steel	Galv. Steel Track
2500-4-A-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



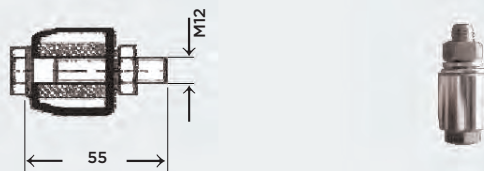
### Track Joint

Part Code	Finish	For use with
2500-3	Zinc Plated Steel	Galv. Steel Track
2500-3-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



### End Stop

Part Code	Finish	For use with
2502-2	Zinc Plated Steel	Galv. Steel Track
2502-2-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



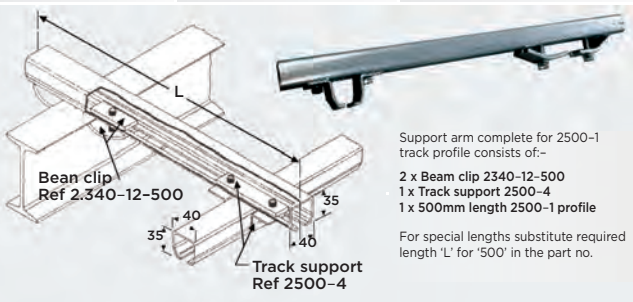
### Towing Arm

Part Code	Finish
5.6/400	Zinc plated steel & aluminium RAL9006 polyester



### Support Arm

Part Code	Finish	For use with
CM-3-500	Zinc Plated Steel	Galv./Stainless Steel Track



### Beam Clip

Part Code	Finish	For use with
2340-12-500	Zinc Plated Steel	Galv. Steel Track
2340-12-500-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



# System 2500

## 40 x 35mm C-Rail Cable & Hose carrying system

Cable Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-5-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500 Trolley**  
Max cable stack = 90 x 30mm  
Max cable weight = 40kg

Tow Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500 Trolley**  
Max cable stack = 90 x 30mm  
Max cable weight = 40kg

Cable End Anchor				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-2-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

**2500 End Anchor**  
Max cable stack = 90 x 30mm  
Max cable weight = 40kg

Cable Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-150-5-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500-150 Trolley**  
Max cable stack = 65 x 25mm  
Max cable weight = 40kg

Tow Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-150-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500-150 Trolley**  
Max cable stack = 65x25mm  
Max cable weight = 40kg

Cable End Anchor				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-2-150-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

**2500-150 End Anchor**  
Max cable stack = 65 x 25mm  
Max cable weight = 40kg

# System 2500

## 40 x 35mm C-Rail Cable & Hose carrying system

### Cable Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-250-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-5-250-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500-250 Trolley**  
Max cable stack = 115 x 50mm  
Max cable weight = 40kg

### Tow Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

**2500-250 Tow**  
Max cable stack = 115 x 50mm  
Max cable weight = 40kg

### Cable End Anchor

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-250-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-250-2-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

**2500 End Anchor**  
Max cable stack = 90 x 30mm  
Max cable weight = 40kg

### Cable Clamp

Part Code	Max Cable Width
B-58	58mm
B-65	65mm
B-90	90mm
B-117	117mm

Other sizes available on request

### Welded Beam Fixing Clamp

Part Code	Finish	Use with
2600-120	Galv. Steel	2500 Arms

Support bracket for welding to customers beam - to be used with length of section 2500 c-track for supporting 2331 or 2500 track system