



ABN 43 008 701 335

# SECTION 4

## Cable Ladder Stainless Steel and Aluminium

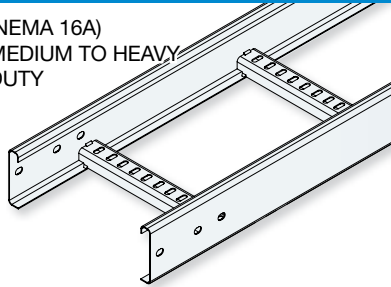
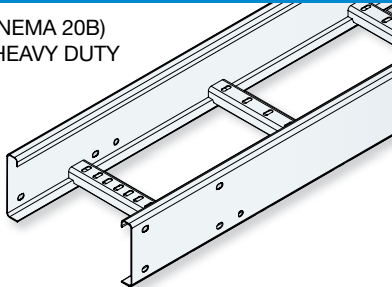
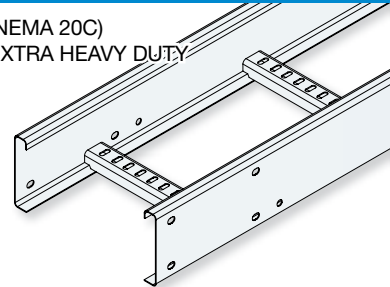
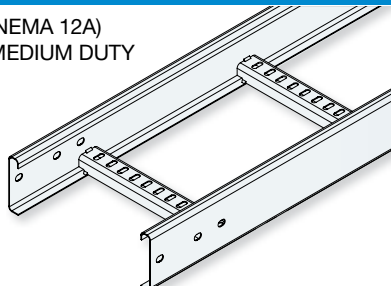
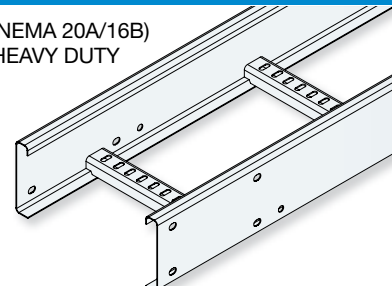
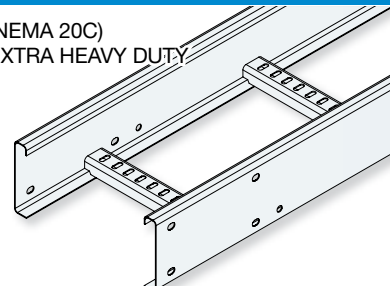
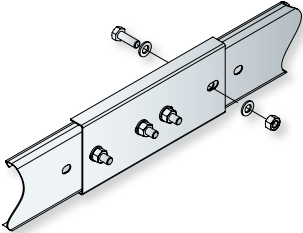
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Quality Endorsed Company ISO9001 Lic No 13146

EDITION 2

## SECTION 4: Cable Ladder Stainless Steel & Aluminium

<p><b>Stainless Steel Type 3/50</b></p> <p>(NEMA 16A) MEDIUM TO HEAVY DUTY</p>  <p>&gt; 4:3</p>	<p><b>Stainless Steel Type 4/70L</b></p> <p>(NEMA 20B) HEAVY DUTY</p>  <p>&gt; 4:4</p>	<p><b>Stainless Steel Type 5/112</b></p> <p>(NEMA 20C) EXTRA HEAVY DUTY</p>  <p>&gt; 4:5</p>
<p><b>Aluminium Type 3/50</b></p> <p>(NEMA 12A) MEDIUM DUTY</p>  <p>&gt; 4:7</p>	<p><b>Aluminium Type 4/70</b></p> <p>(NEMA 20A/16B) HEAVY DUTY</p>  <p>&gt; 4:8</p>	<p><b>Aluminium Type 5/112</b></p> <p>(NEMA 20C) EXTRA HEAVY DUTY</p>  <p>&gt; 4:9</p>
<p><b>Ladder Splice Plates</b></p>  <p>&gt; 3:18</p>		

CABLE LADDER  
Stainless Steel

# Cable Ladder Stainless Steel

## General Description

The Kounis Metal Industries Stainless Steel Cable Ladder Systems were developed for use in commercial, industrial & mining applications where the surrounding environment calls for a higher level of protection against corrosion.

Its superior support strength and open ventilation allows for effortless installation of electrical cables and or pipe work.

The finished product is constructed from 316 Grade Stainless Steel side rail sections and rungs welded at 300 mm continuous spacings. Surface treatment is post production pickling and passivation with the focus of ensuring all weld joints are clean to achieve a maximum life span from the installation.

This product range comprises of three system types to cover a wide range of requirements; **Type 3/50** Medium to Heavy Duty 100mm Side (NEMA 16A), **Type 4/70L** Heavy Duty 130 mm Side and **Type 5/112** Extra Heavy Duty 146 mm Side (NEMA 20C). All of which offer the following standard features:

- 6 m lengths
- Self-splicing Bend, Riser, Tee & Cross Fittings.
- Rail in or rail out option
- Earthing holes at point of connection on straight lengths as well as fittings
- Channel type rung offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- Hold Down Clamps assemblies with nylon isolation pads and bushes are available for dissimilar materials.
- A full range of flat and peak covers are available for straight lengths and fittings

Engineer certification to withstand certain cyclonic conditions (only available for Type 4/70 & 5/112, minimum installation requirements apply).

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard. All other listed radius options are made to firm order.

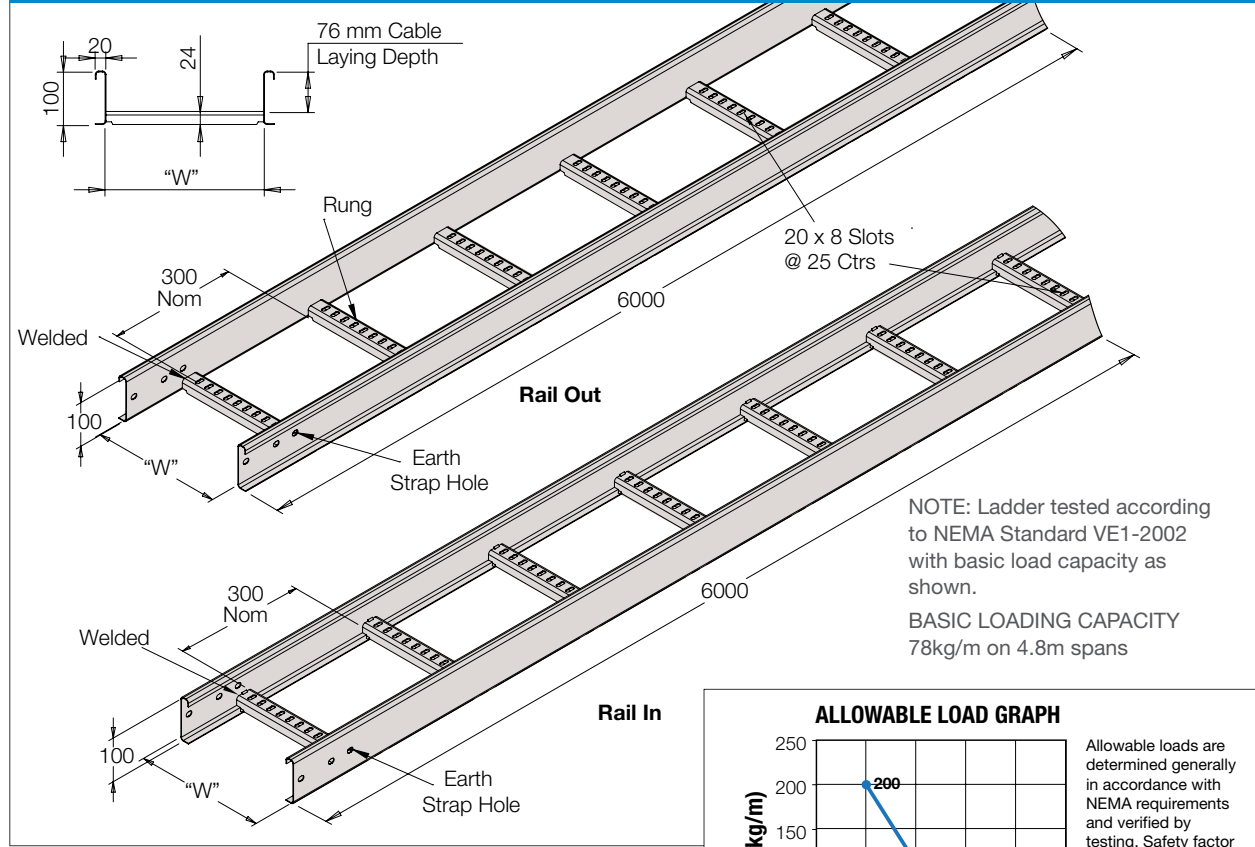
Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

Tested to NEMA VE1-2002 Standards. Full engineering details are available on request.

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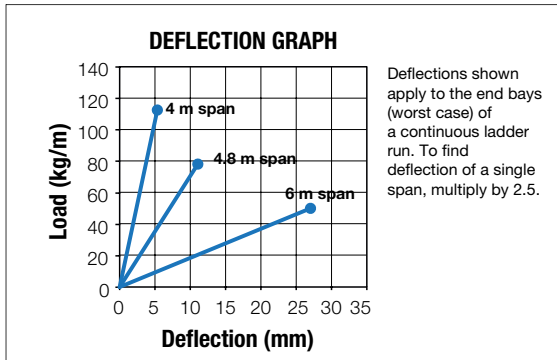
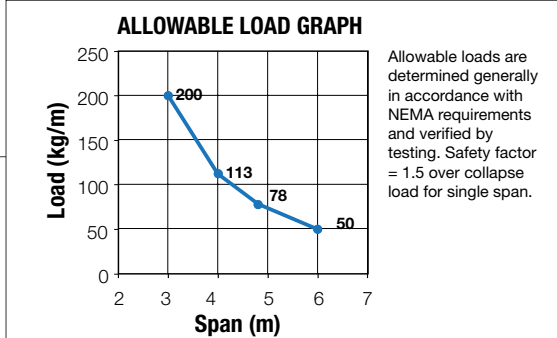
# Cable Ladder Medium To Heavy Duty Type 3/50 16A 1.6 mm Stainless Steel 316 Grade

## Cable Ladder Type 3/50 Stainless Steel



### Specification

<b>Class Designation:</b>	Cable ladder-medium to heavy duty type 3/50.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	76 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm & 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>3C</b> 3C = 3/50 100 mm High Side 1.6 mm Gauge	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>S</b> 316 Grade Stainless Steel	<b>K</b> K = Includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.			ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts			

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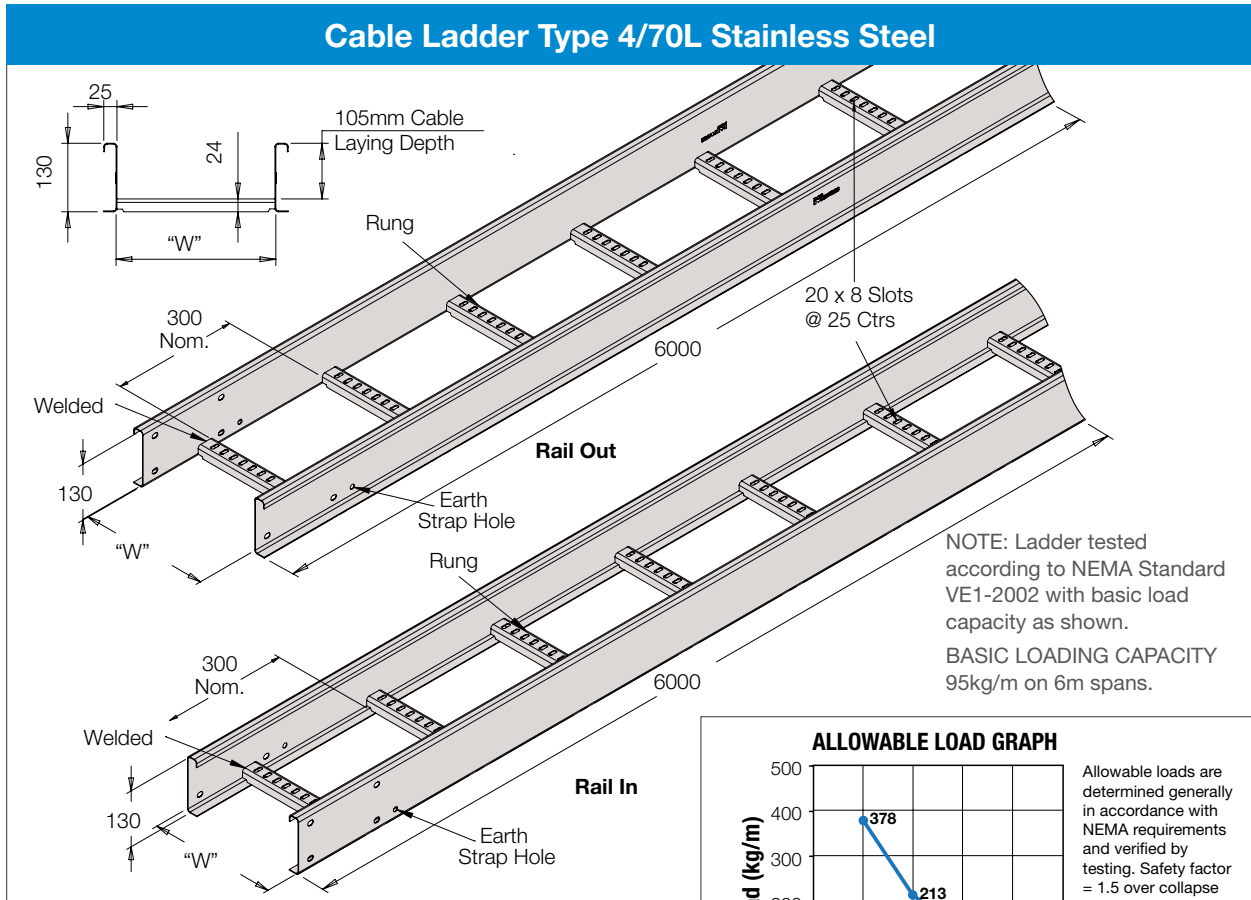
CABLE LADDER  
Stainless Steel  
Medium to Heavy Duty  
Type 3/50 Cable Ladder

# Cable Ladder Heavy Duty Type 4/70L 20B

## 1.6 mm Stainless Steel 316 Grade

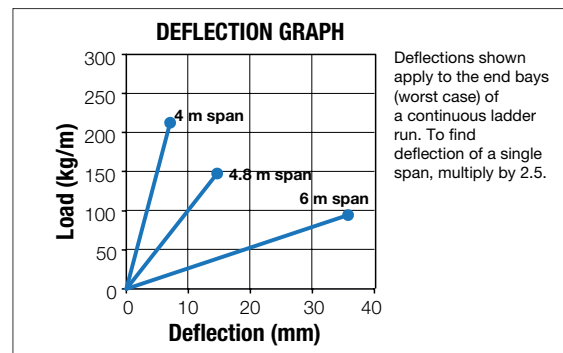
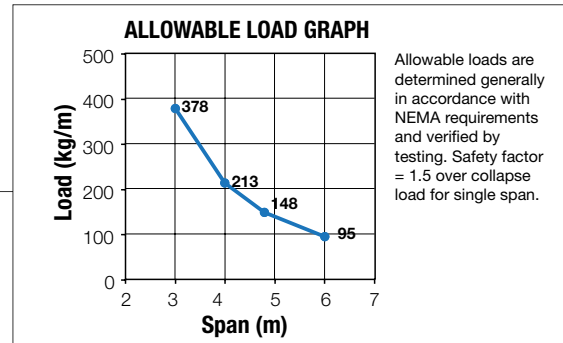
CABLE LADDER  
Stainless Steel

Heavy Duty Type 4/70L  
Cable Ladder



### Specification

<b>Class Designation:</b>	Cable ladder heavy duty type 4/70L.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	105 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses & reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



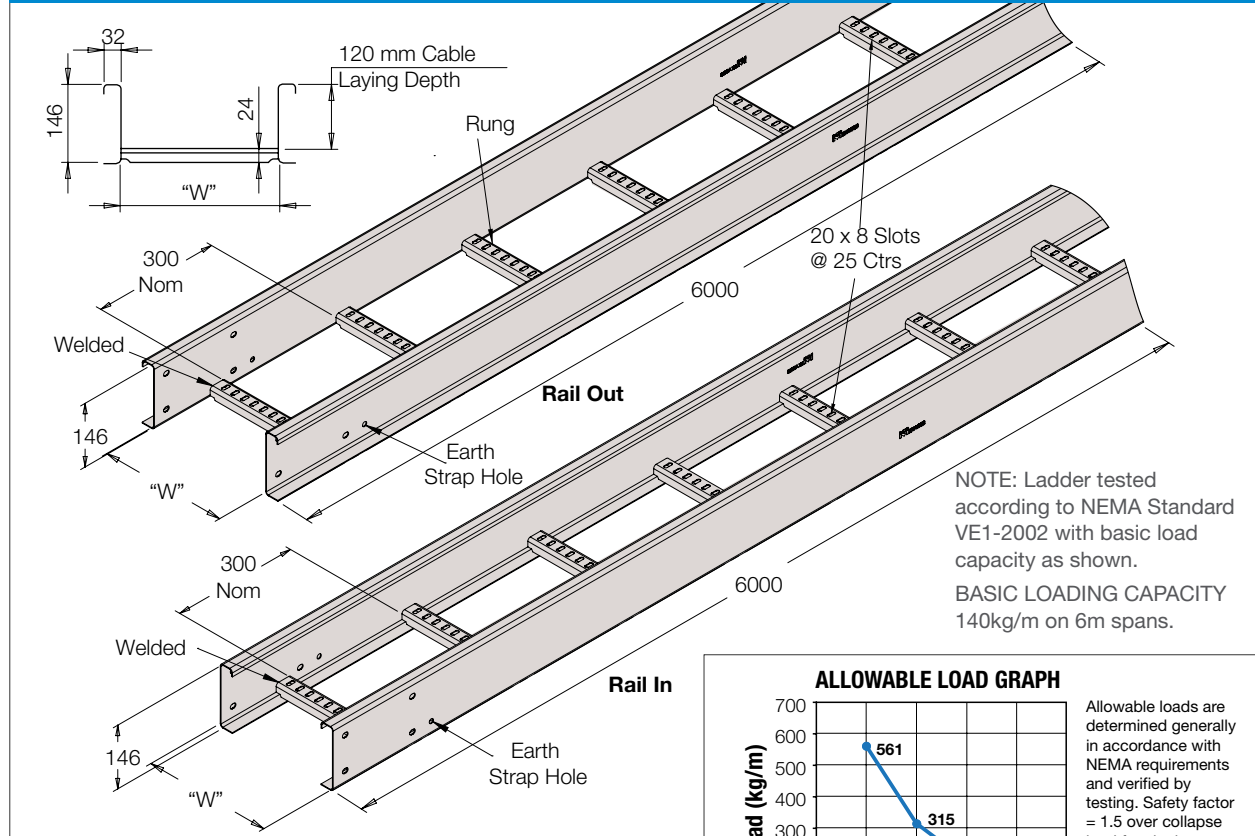
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>4CL</b>	<b>L</b>	<b>15</b>	<b>S</b>	<b>K</b>	<b>RI or RO</b>	
4CL = 4/70L 130 mm High Side 1.6mm Gauge	L = Straight 6 metre Length	15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	316 Grade Stainless Steel	K = Includes all required Splice plates with Bolts and nuts	RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.						
ORDERING EXAMPLE SHOWN: 4/70L Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts						

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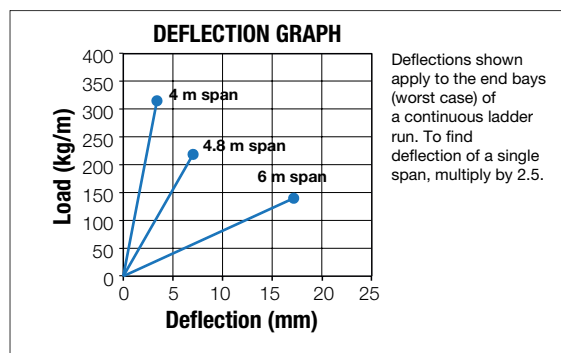
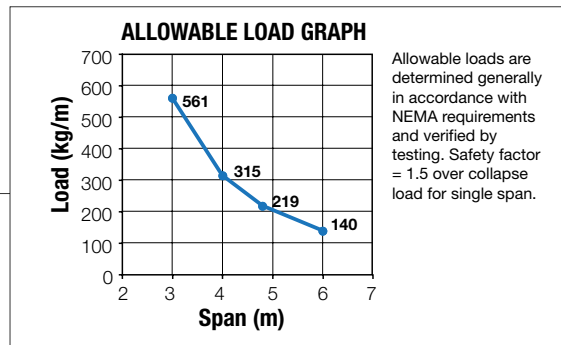
# Cable Ladder Extra Heavy Duty Type 5/112 20C 2.0 mm Stainless Steel 316 Grade

## Cable Ladder Type 5/112 Stainless Steel



### Specification

<b>Class Designation:</b>	Cable ladder extra heavy duty type 5/112.
<b>Material:</b>	316 stainless steel sheet.
<b>Finish:</b>	Natural.
<b>Rung Spacing:</b>	300 mm spacings with slotted rung standard.
<b>Inside Depth:</b>	120 mm cable laying depth.
<b>Stock Length:</b>	6000 mm standard, joining together by full strength splice plates.
<b>Stock Widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard. Other widths available by request.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>5C</b> 5C = 5/112 146 mm High Side 2.0 mm Gauge	<b>L</b> = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>S</b> 316 Grade Stainless Steel	<b>K</b> K = Includes all required Splice plates with Bolts and nuts	<b>RO</b> RI = Rail In RO = Rail Out (See Rail In note)	Standard Supply is Mill Finish
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 5/112 Cable Ladder 150 mm wide x 6 metre 316 Stainless Steel c/w Splice Plates Bolts and Nuts.				

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## Cable Ladder Aluminium

### General Description

The Kounis Group Aluminium Cable Ladder Systems are developed for use in commercial, industrial & mining applications.

Its superior support strength and open ventilation allows for effortless installation of electrical cables and or pipe work.

The finished product is constructed from Grade 6106 – T6 Extruded Aluminium Alloy side rail sections has rungs welded at 300 mm continuous spacings. Ladders have a post production treatment with the focus on ensuring all weld joints are clean to achieve a maximum life span from the installation.

This product range comprises three system types to cover a wide range of requirements; **Type 3/50** Medium Duty 90 mm Side (NEMA 12A), **Type 4/70** Heavy Duty 130 mm Side (NEMA 16B and NEMA 20A) and **Type 5/112** Extra Heavy Duty 155 mm Side (NEMA 20C). All of which offer the following standard features:

- 6 m length
- Self-splicing Bend, Riser, Tee & Cross Fittings
- Earthing holes at point of connection on straight lengths as well as fittings
- Channel type rungs offering superior strength
- 25 mm rung tie off centres to allow maximum tie off options
- Use of stainless steel fixings required
- A full range of flat and peak covers are available for straight lengths and fittings

All fitting radius measurements are to the internal side rail, stock standard radius varies depending on cable ladder system type and branch standard.

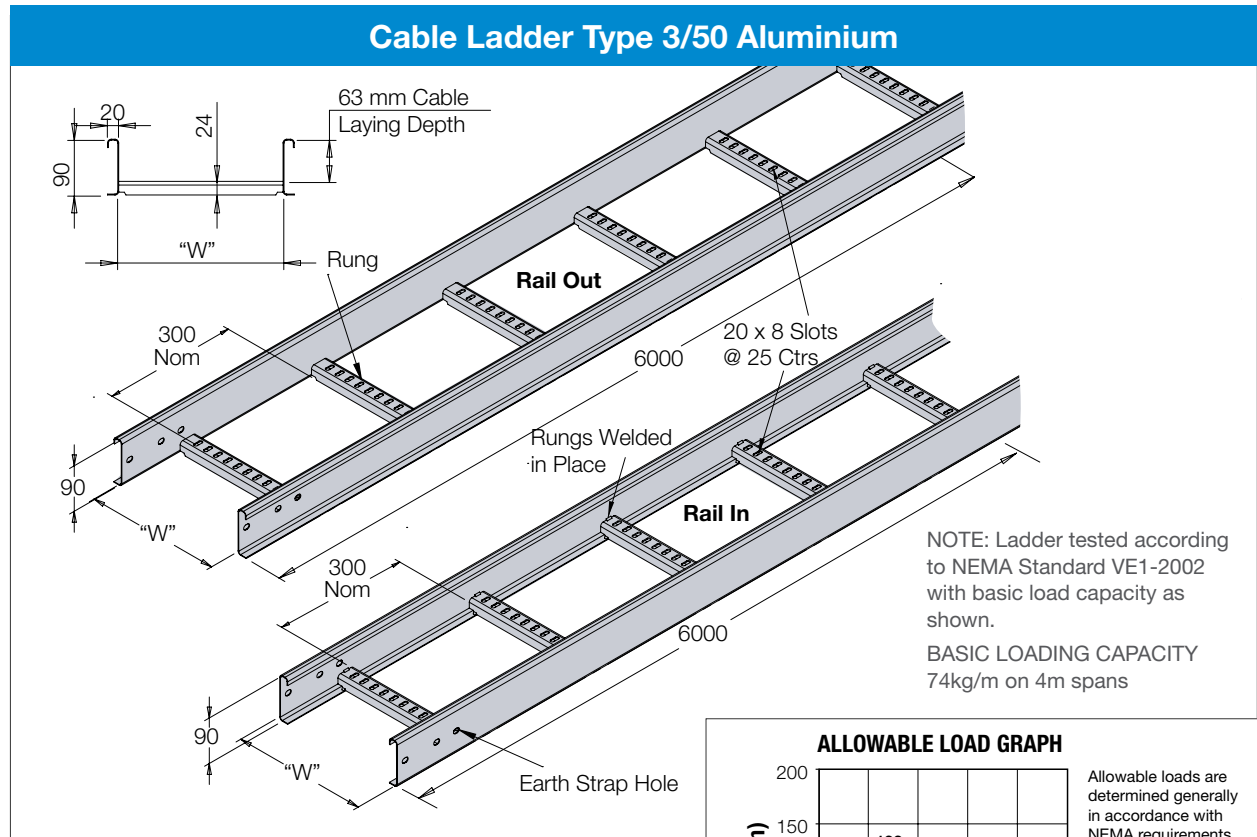
All other listed radius options are made to firm order.

Load capacities and deflection graphs are published by type and can be found on the straight length page for the associated cable ladder system.

Tested to NEMA VE1-2002 Standards, Full engineering details are available on request.

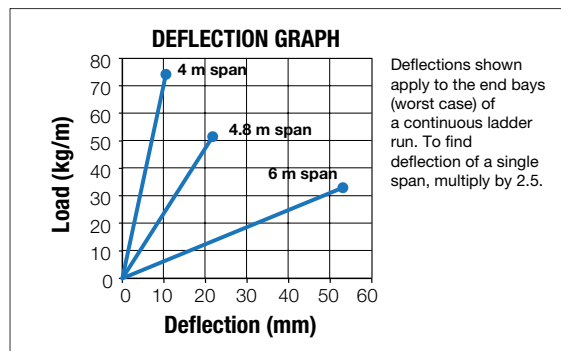
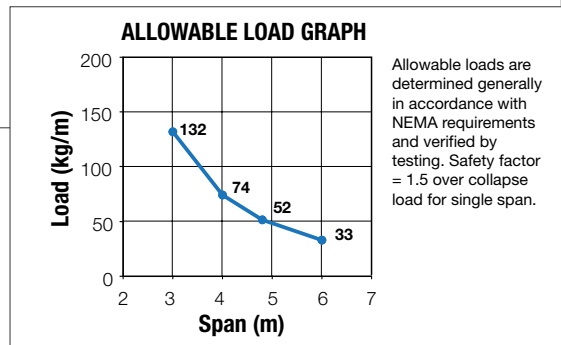
# Cable Ladder Medium Duty Type 3/50 12A

## Grade 6106 – T6 Aluminium



### Specification

<b>Class designation:</b>	Cable ladder medium duty type 3/50.
<b>Material:</b>	6106-T6 Marine Grade Aluminium Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	63 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>3C</b> 3C = 3/50 90mm High Side Extrusion	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>A</b> A = 6106-T6 Aluminium	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = Rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre Aluminium c/w Splice Plates Bolts and Nuts				

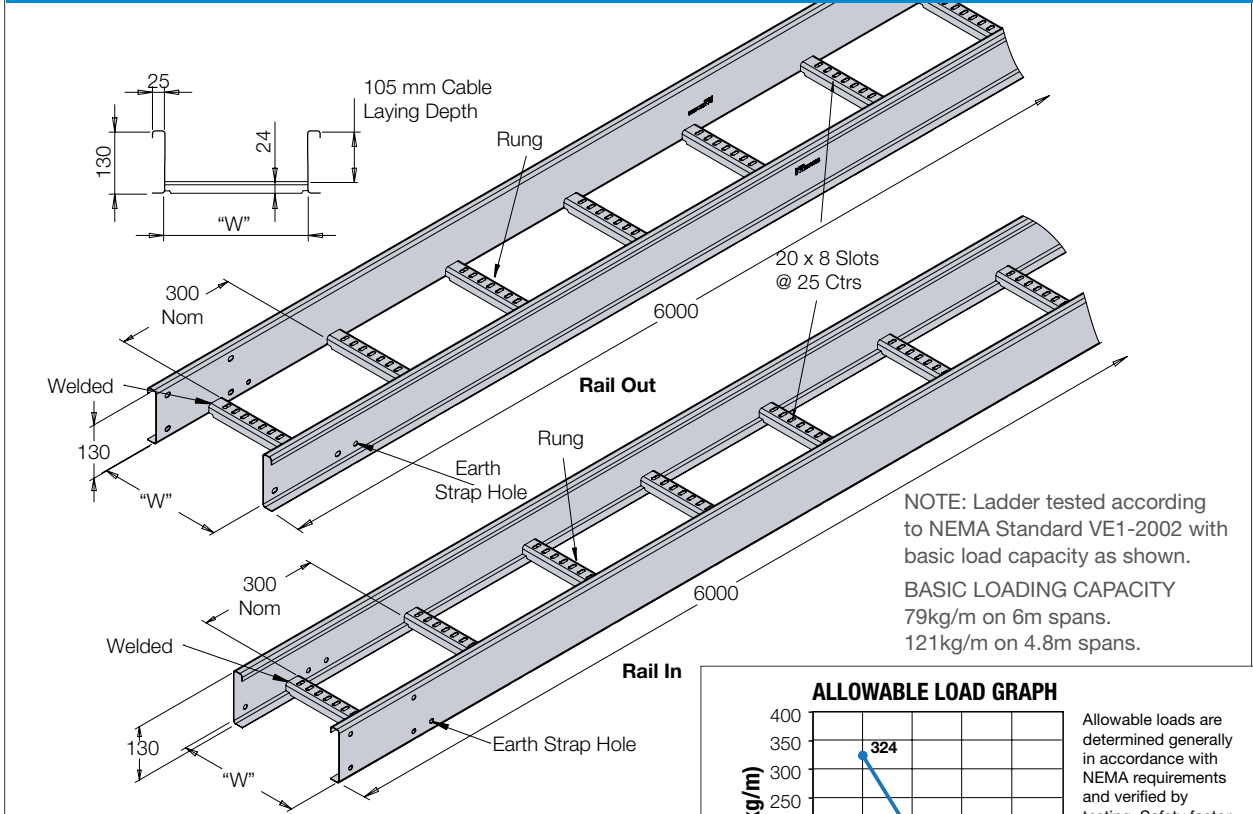
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# Cable Ladder Heavy Duty Type 4/70 20A/16B Grade 6106 – T6 Aluminium

CABLE LADDER Aluminium  
Heavy Duty Type 4/70  
6106 – T6 Cable Ladder

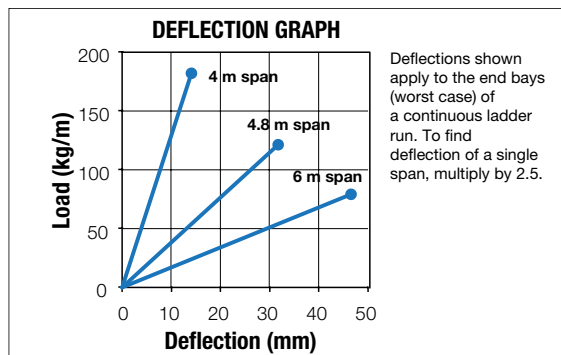
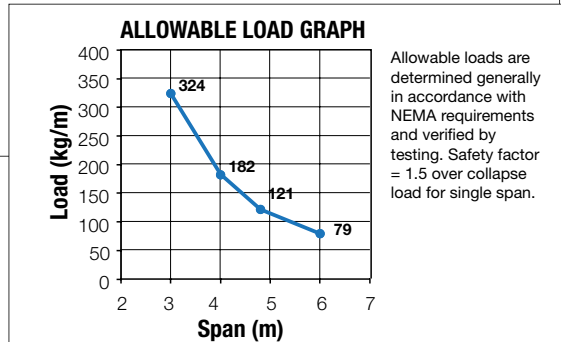
## Cable Ladder Type 4/70 Aluminium



NOTE: Ladder tested according to NEMA Standard VE1-2002 with basic load capacity as shown.  
BASIC LOADING CAPACITY  
79kg/m on 6m spans.  
121kg/m on 4.8m spans.

### Specification

<b>Class designation:</b>	Cable ladder heavy duty type 4/70.
<b>Material:</b>	6106-T6 Marine Grade Aluminum Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	105 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in. 450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



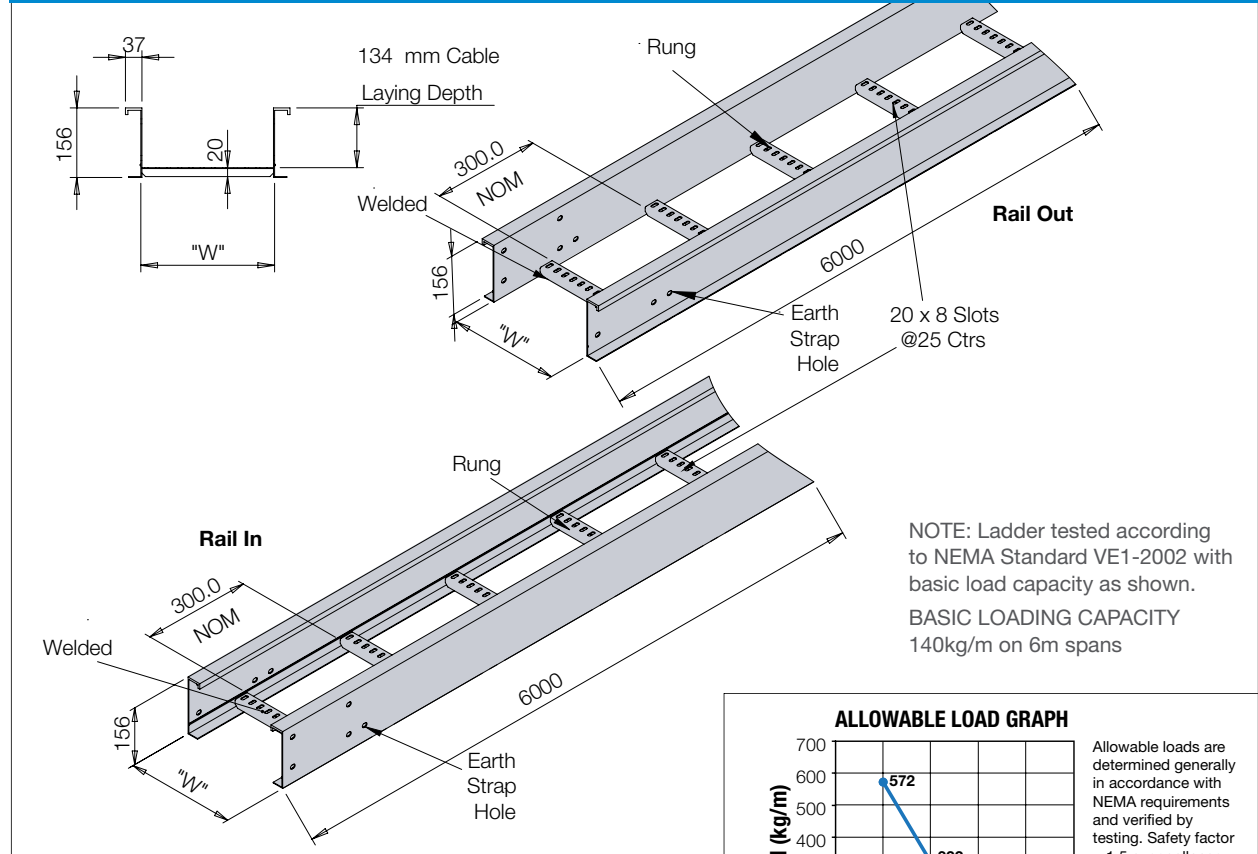
### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>4C</b> 4C = 4/70 130 mm High Side Extrusion	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>A</b> A = 6106-T6 Aluminium	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO = rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.		ORDERING EXAMPLE SHOWN: 3/50 Cable Ladder 150 mm wide x 6 metre Aluminium c/w Splice Plates Bolts and Nuts				

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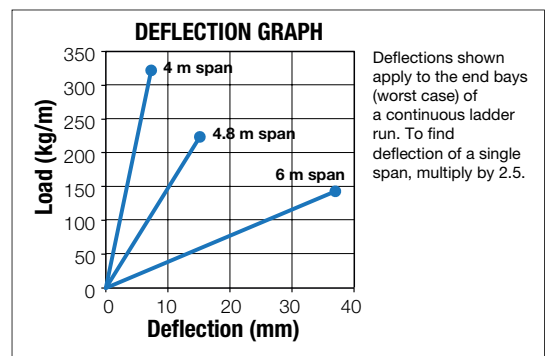
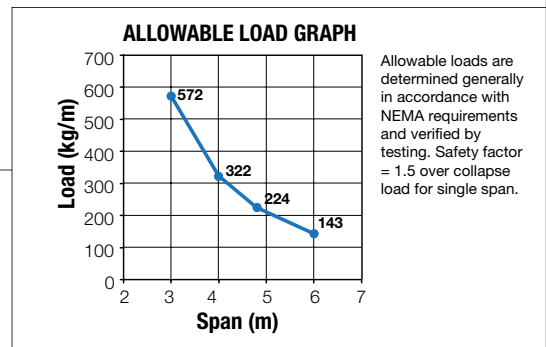
# Cable Ladder Extra Heavy Duty Type 5/112 20C Grade 6106 – T6 Aluminium

## Cable Ladder Type 5/112 Aluminium



### Specification

<b>Class designation:</b>	Cable ladder extra heavy duty type 5/112.
<b>Material:</b>	6106-T6 Marine Grade Aluminum Alloy Grade 316 Stainless Steel fastenings
<b>Finish:</b>	Standard Mill Finish
<b>Rung spacing:</b>	300 mm spacings with slotted rungs standard.
<b>Inside depth:</b>	130 mm cable laying depth.
<b>Stock length:</b>	6000 mm standard, joining together by full strength splice plates
<b>Stock widths:</b>	150 mm, 300 mm, 450 mm and 600 mm standard.
<b>Fittings:</b>	A full range of fittings are available e.g bends, risers, tees, crosses and reducers.
<b>Radius:</b>	300 mm radius standard for rail in.450 mm radius standard for rail out. Other radii available by request.
<b>Accessories:</b>	Flat or peak covers available for ladders and fittings. Barrier strips. Hold down clamps.



### When Ordering

Range	Type	Wide	Material	Fastenings	Rail Direction	Finish
<b>5C</b> 5C = 5/112 156mm High Side Extrusion	<b>L</b> L = Straight 6 metre Length	<b>15</b> 15 = 150 mm 30 = 300 mm 45 = 450 mm 60 = 600 mm 75 = 750 mm 90 = 900 mm	<b>A</b> A = 6106-T6 Aluminium	<b>K</b> K = includes all required Splice plates with Bolts and nuts	<b>RI or RO</b> RI = Rail In RO= Rail Out (See Rail In note)	Standard supply is Mill Finish Aluminium
NOTE: Rail In Ladder (RI) is a Kounis standard and will not show in a supply code. All Rail Out ladder will have a RO suffix shown in all supply codes.						
Ordering example shown 5/112 Cable Ladder 150mm wide x 6 metre Aluminium Rail In c/w Splice Plates Bolts & Nuts						

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## Notes

CABLE LADDER  
(Stainless & Aluminium)