



Struts

Strut Channel Industrial Grade

americanlite®

We light your world™





Struts

Strut Channel Industrial Grade

Materials

Channels made from high-quality carbon steel are continuously roll formed to precise dimensions. By cold working the steel mechanical properties are increased, allowing lightweight structures to carry the required load. Corrosion resistance of carbon steel varies widely with coating and alloy

Finish

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot dip mill galvanized. These coils are then slit to size and fabricated by roll forming, shearing, punching, or forming to produce our pre-galvanized strut products.

Quality assurance

Our quality assurance program has been developed and implemented for compliance with GB/T19001-2016 IDT ISO9001:2015. Our standard strut made of steel complies with ASTM A653, 33,000 min yield standard. Coating @ 275g = 17um, the highest in the industry, also complies with ASTM A653.

Applications:

Electrical

- Lighting Fixture Supports
- Raceway Systems
- Trapeze Hangers
- Pipe and Conduit Supports
- Cable Tray Supports
- Beam Adjustments

Industrial

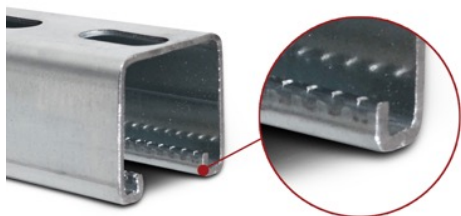
- Racks and Shelving
- Partitions
- Production Line Supports
- Trolley Systems
- Wall Framing

Mechanical

- Piping Racks
- Tunnel Pipe Stanchions
- Concrete Inserts
- Beam Attachments
- Pipe Risers



Strut Channel Industrial Grade Pre Galvanized Steel Zinc 275g



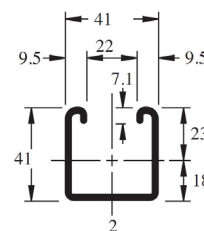
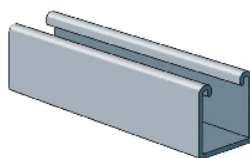
Strut with serrated edges

Americanlite® Industrial Grade Strut System provides a complete solution for electrical, mechanical and industrial supports with an unlimited variety of applications in the construction industry.

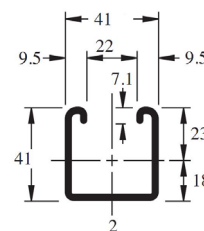
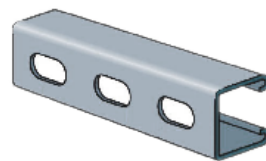
Our standard Strut made of Steel complies with ASTM A653, 33,000 min yield standard. Coating @ 275g = 17um, the highest in the industry, also complies with ASTM A653.

We produce strut channel to a wide range of specifications, including variable heights, thicknesses, coatings, holes, slots, serrated edges, and more.

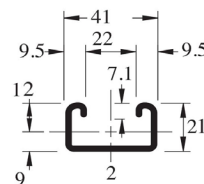
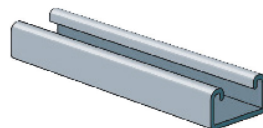
AL603000	Specs
Size	41 x 21 x 2.0mm x 10'
Holes	Solid (no holes)
Serrated edges	Yes
Surface	Zinc 275g/M ²
Material	Q195 Standard Pre Galvanized
Weight	4.3 KGS / PC



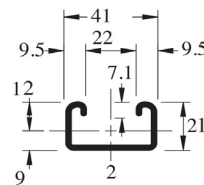
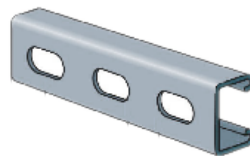
AL603001	Specs
Size	41 x 21 x 2.0mm x 10'
Oval Holes	Hole size 14.3mm x 28.6mm Slots on 2" center, Space 22.2mm
Serrated edges	Yes
Surface	Zinc 275g/M ²
Material	Q195 Standard Pre Galvanized
Weight	4.1 KGS / PC



AL603002	Specs
Size	41 x 41 x 2.0mm x 10'
Holes	Solid (no holes)
Serrated edges	Yes
Surface	Zinc 275g/M ²
Material	Q195 Standard Pre Galvanized
Weight	5.9 KGS / PC



AL603003	Specs
Size	41 x 41 x 2.0mm x 10'
Oval Holes	Hole size 14.3mm x 28.6mm Slots on 2" center, Space 22.2mm
Serrated edges	Yes
Surface	Zinc 275g/M ²
Material	Q195 Standard Pre Galvanized
Weight	5.7 KGS / PC



Note

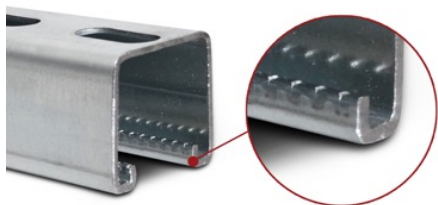
Indoor storage only do not place product outdoors, it may get damaged by humidity and will rust.

If by any situation humidity is present inside plastic cover and Strut, remove the plastic immediately to allow the strut to dry. Recommended storage temperature: -15°C ~ 35°C

Packing information

Model	Pieces per Bundle	Dimensions (cm)	CBM (Bundle)	Gross Weight (KG)
AL603000 / AL603001	50	14x23x305	0.0073	220 / 202
AL603002 / AL603003	50	23x23x305	0.0073	296 / 316

Strut Channel Industrial Grade Galvanized Carbon Steel ZAM 275g



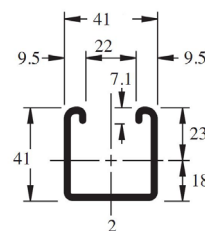
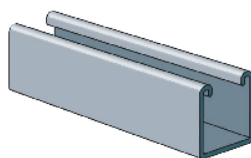
Strut with serrated edges

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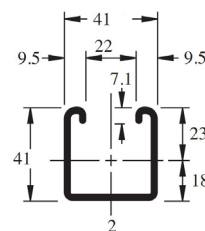
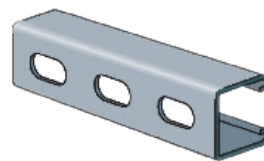
Our standard Strut made of Steel complies with ASTM A653, 33,000 min yield standard. ZAM Coating (Zinc+Aluminum+Magnesium) @ 275g = 17um, the highest in the industry, specially designed for humid ambients. Complies with ASTM A653.

We produce strut channel to a wide range of specifications, including variable heights, thicknesses, coatings, holes, slots, serrated edges, and more.

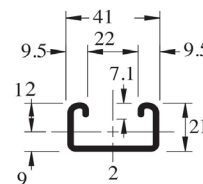
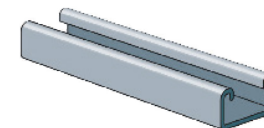
AL603004	Specs
Size	41 x 21 x 2.0mm x 10'
Holes	Solid (no holes)
Serrated edges	Yes
Surface	ZAM 275g/M ²
Material	Q195 Standard Galvanized Carbon Steel
Weight	4.3 KGS / PC



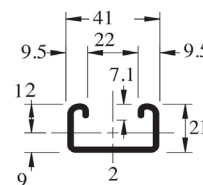
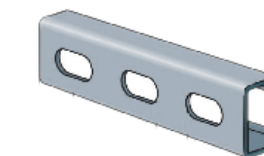
AL603005	Specs
Size	41 x 21 x 2.0mm x 10'
Oval Holes	Hole size 14.3mm x 28.6mm Slots on 2" center, Space 22.2mm
Serrated edges	Yes
Surface	ZAM 275g/M ²
Material	Q195 Standard Galvanized Carbon Steel
Weight	4.1 KGS / PC



AL603006	Specs
Size	41 x 41 x 2.0mm x 10'
Holes	Solid (no holes)
Serrated edges	Yes
Surface	ZAM 275g/M ²
Material	Q195 Standard Galvanized Carbon Steel
Weight	5.9 KGS / PC



AL603007	Specs
Size	41 x 41 x 2.0mm x 10'
Oval Holes	Hole size 14.3mm x 28.6mm Slots on 2" center, Space 22.2mm
Serrated edges	Yes
Surface	ZAM 275g/M ²
Material	Q195 Standard Galvanized Carbon Steel
Weight	5.7 KGS / PC



Note

Indoor storage only do not place product outdoors, it may get damaged by humidity and will rust.

If by any situation humidity is present inside plastic cover and Strut, remove the plastic immediately to allow the strut to dry.

Recommended storage temperature: -15°C ~ 35°C

Packing information

Model	Pieces per Bundle	Dimensions (cm)	CBM (Bundle)	Gross Weight (KG)
AL603004 / AL603005	50	14x23x305	0.0073	220 / 202
AL603006 / AL603007	50	23x23x305	0.0073	296 / 316

Universal Strut Clamps



Features:

For use with EMT/IMC/Rigid Conduit

Material:

Steel

Finish:

Electro-galvanized

Applications:

Use to support stationary pipe and tubing lines from strut channel

Ordering information

Model	Size	Conduit Size (mm)	Thickness (mm)	Bolt Size
AL603050	1/2"	17.93 - 21.34	1.5 (±3%)	1/4"-20 x 1-1/4"
AL603051	3/4"	23.42 - 26.67		
AL603052	1"	29.54 - 33.40		
AL603053	1 1/4"	38.35 - 42.16	1.9 (±3%)	5/16"-18 x 1-1/2"
AL603054	1 1/2"	44.20 - 48.26		
AL603055	2"	55.80 - 60.33		
AL603056	2 1/2"	73.03	2.5 (±3%)	3/8" - 16 x 1 1/2"
AL603057	3"	88.90		
AL603058	4"	114.3		
AL603080	6"	168.28	3.0 (±3%)	

Notes

- Clamps are packed with one Bolt and one Hex Nut
- 6" Strut Clamp is only for Rigid.

Packing information

Model	Pieces per master	Box Dimensions (cm)	CBM (Master)	Gross Weight (KG)
1/2"	300	26.5x24x15.5	0.0098	15.5
3/4"	300	26.5x24x15.5	0.0098	17
1"	250	26.5x24x15.5	0.0098	16.9
1 1/4"	200	26.5x24x15.5	0.0098	18.6
1 1/2"	150	26.5x24x15.5	0.0098	16.8
2"	150	26.5x24x15.5	0.0098	18.5
2 1/2"	100	26.5x24x15.5	0.0098	17
3"	100	26.5x24x15.5	0.0098	20
4"	50	26.5x24x15.5	0.0098	14.8
6"	50	26.5x24x15.5	0.0098	20

Long Spring Nuts



Features:

For use with 1 5/8" Strut Channel (A1200 to A1800)

Material:

Steel

Finish:

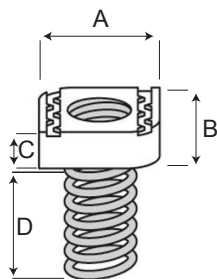
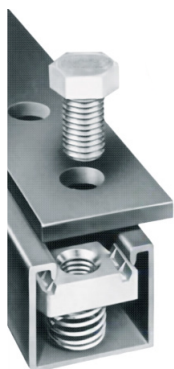
Zinc Plated

Applications:

Manufactures for slip resistant support of components in strut system

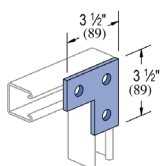
Ordering information

Model	Thread Size (in)	Length A (mm)	Width B (mm)	Thickness C (mm)	Spring Length D (mm)
AL603059	1/4" - 20	34.5	19	6	38 - 40
AL603060	3/8" - 16	34.5	19	9	38 - 40
AL603061	1/2" - 13	34.5	19	9	38 - 40

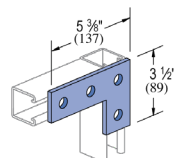


Packing information

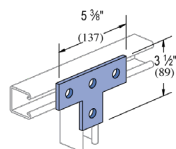
Model	Pieces per master	Box Dimensions (cm)	CBM (Master)	Gross Weight (KG)
1/4"	400	37.5x 22.5 x 20.5	0.0172	11.7
3/8"	400	37.5x 22.5 x 20.5	0.0172	14.9
1/2"	400	37.5x 22.5 x 20.5	0.0172	14.9



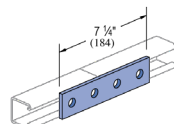
AL603062
3 Hole Flat Angle Plate
 Zinc Plated
 Size: 3 1/2" x 3 1/2" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



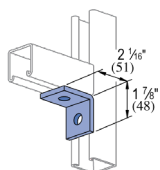
AL603063
4 Hole Flat Angle Plate
 Zinc Plated
 Size: 3 1/2" x 5 3/8" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



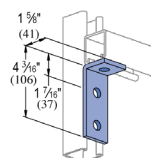
AL603064
3 Hole T- Plate
 Zinc Plated
 Size: 3 1/2" x 5 3/8" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



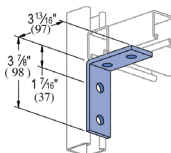
AL603065
4 Hole Splice Plate
 Zinc Plated
 Size: 7 1/4" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



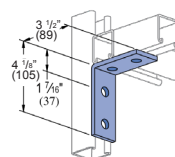
AL603066
2 Hole End Angle Plate
 Zinc Plated
 Size: 1 7/8" x 2 1/16" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



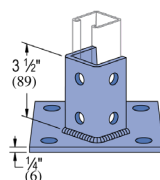
AL603067
3 Hole Corner Angle Plate
 Zinc Plated
 Size: 1 5/8" x 4 3/16" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



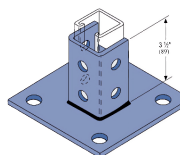
AL603068
4 Hole Flat Corner Angle Plate
 Zinc Plated
 Size: 3 13/16" x 3 7/8" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



AL603071
4 Hole Flat Corner Angle Plate
 Zinc Plated
 Size: 3 1/2" x 4 1/8" Thickness 6-6.5mm
 Hole size 14.02-14.53mm



AL603069
10 Hole Diagonal Post Base
 Zinc Plated
 Size: 6" x 6" x 3 1/2" Thickness 6-6.5mm



AL603070
10 Hole Square Post Base
 Zinc Plated
 Size: 6" x 6" x 3 1/2" Thickness 6-6.5mm

Packing information

Model	Pieces per master	Box Dimensions (cm)	CBM (Master)	Gross Weight (KG)
AL603062	50	18x18x15	0.0048	12.8
AL603063	50	18x18x15	0.0048	17.3
AL603064	50	18x18x15	0.0048	17.3
AL603065	50	18x18x15	0.0048	16.05
AL603066	100	18x18x15	0.0048	15.7
AL603067	50	18x18x15	0.0048	18.75
AL603068	50	18x18x15	0.0048	16.3
AL603071	50	18x18x15	0.0048	16.3
AL603069	10	26.5x24x19	0.0120	16.3
AL603070	10	26.5x24x19	0.0120	16.3

Corrosion

All metal surfaces are affected by corrosion. Depending on the physical properties of the metal and the environment to which it is exposed, chemical or electromechanical corrosion may occur.

Atmospheric Corrosion

Atmospheric corrosion occurs when metal is exposed to airborne liquids, solids or gases. Some sources of atmospheric corrosion are moisture, salt, dirt and sulphuric acid. This form of corrosion is typically more severe outdoors, especially near marine environments.

Chemical Corrosion

Chemical corrosion takes place when metal comes in direct contact with a corrosive solution. Some factors which affect the severity of chemical corrosion include: chemical concentration level, duration of contact, frequency of washing, and operating temperature.

Storage Corrosion

Wet storage stain (white rust) is caused by the entrapment of moisture between surfaces of closely packed and poorly ventilated material for an extended period. Wet storage stain is usually superficial, having no affect on the properties of the metal. Light staining normally disappears with weathering. Medium to heavy buildup should be removed in order to allow the formation of normal protective film. Proper handling and storage will help to assure stain-free material. If product arrives wet, it should be unpacked and dried before storage. Dry material should be stored in a well ventilated "low moisture" environment to avoid condensation formation. Outdoor storage is undesirable, and should be avoided whenever possible.

Galvanic Corrosion

Galvanic corrosion occurs when two or more dissimilar metals are in contact in the presence of an electrolyte (i.e.: moisture). An electrolytic cell is created and the metals form an anode or a cathode depending on their relative position on the Galvanic Series Table. The anodic material will be the one to corrode. Anodic or cathodic characteristics of two dissimilar metals will depend on the type of each material. For example: If zinc and steel are in contact, the zinc acts as the anode and will corrode; the steel acts as the cathode, and will be protected. If steel and copper are in contact, the steel is now the anode and will corrode.

Galvanic Series in Sea Water

Anodic End

↑ Magnesium
Magnesium Alloys
Zinc
Beryllium
Aluminum - Zinc Alloys (7000 series)
Aluminum - Magnesium Alloys (5000 series)
Aluminum (1000 series)
Aluminum - Magnesium Alloys (3000 series)
Aluminum - Magnesium - Silicon Alloys (6000 series)
Cadmium
Aluminum - Copper Alloys (2000 series)
Cast Iron, Wrought Iron, Mild Steel
Austenitic Nickel Cast Iron
Type 410 Stainless Steel (active)
Type 316 Stainless Steel (active)
Type 304 Stainless Steel (active)
Naval Brass, Yellow Brass, Red Brass
Tin
Copper
Lead-Tin Solders
Admiralty Brass, Aluminum Brass
Manganese Bronze
Silicon Bronze
Tin Bronze
Type 410 Stainless Steel (passive)
Nickel - Silver
Copper Nickel Alloys
Lead
Nickel - Aluminum Bronze
Silver Solder
Nickel 200
Silver
Type 316 Stainless Steel (passive)
Type 304 Stainless Steel (passive)
Incoloy 825
Hastelloy B
Titanium
Hastelloy C
Platinum
Graphite

Mode Anodic

Cathodic End

Metals in descending order of activity in the presence of an electrolyte

The rate at which galvanic corrosion occurs depends on several factors:

1. The relative position on the Galvanic Series Table - the further apart materials are in the Galvanic Series Table, the greater the potential for corrosion of the anodic material.
2. The amount and concentration of electrolyte present - an indoor, dry environment will have little or no galvanic corrosion compared to a wet atmosphere.
3. The relative size of the materials - a small amount of anodic material in contact with a large cathodic material will result in greater corrosion. Likewise, a large anode in contact with a small cathode will decrease the rate of attack.



Warranty

Americanlite® is pleased to provide a 1 year limited warranty covering the items in this catalogue. Americanlite® warrants that the items comply with Americanlite®'s published specifications and are free from defects in materials and workmanship.

All our equipment is CE, ETL or UL approved and manufactured with approved components. Americanlite® reserves the right to change or improve the design or components of any of its products due to parts availability or changes in standards, without assuming any obligation to modify any product previously manufactured and without notice. All equipment is tested and inspected before shipment.

This warranty is void if the product is operated outside of its normal operating conditions. The foregoing warranty does not apply to failures caused by acts of God or as a result of any abuse, misuse, abnormal use, or use in violation of any applicable standard, code or instructions for use in installations, including, but not limited to, those contained in the Standards for the International Electrotechnical Commission. Americanlite® reserves and has the right to examine failed fixtures to determine the cause of failure, excessive lumen depreciation and patterns of usage.