

Catalogue

UNISTRUT®

UNITRAY

A PART OF





Unistrut: More than you imagine

Unistrut has been the leading supplier of metal framing systems for 90 years. We specialise in Channel Framing, Cable Management and Prefabricated Framing, and our products and services are synonymous with engineering excellence and reliability worldwide.



Ninety years of innovation

Unistrut began developing and manufacturing products during the 1920s, producing the original Unistrut metal framing system. Our extensive product portfolio now includes a variety of cable management solutions and advanced metal framing systems.

Sharing our experience, knowledge and expertise

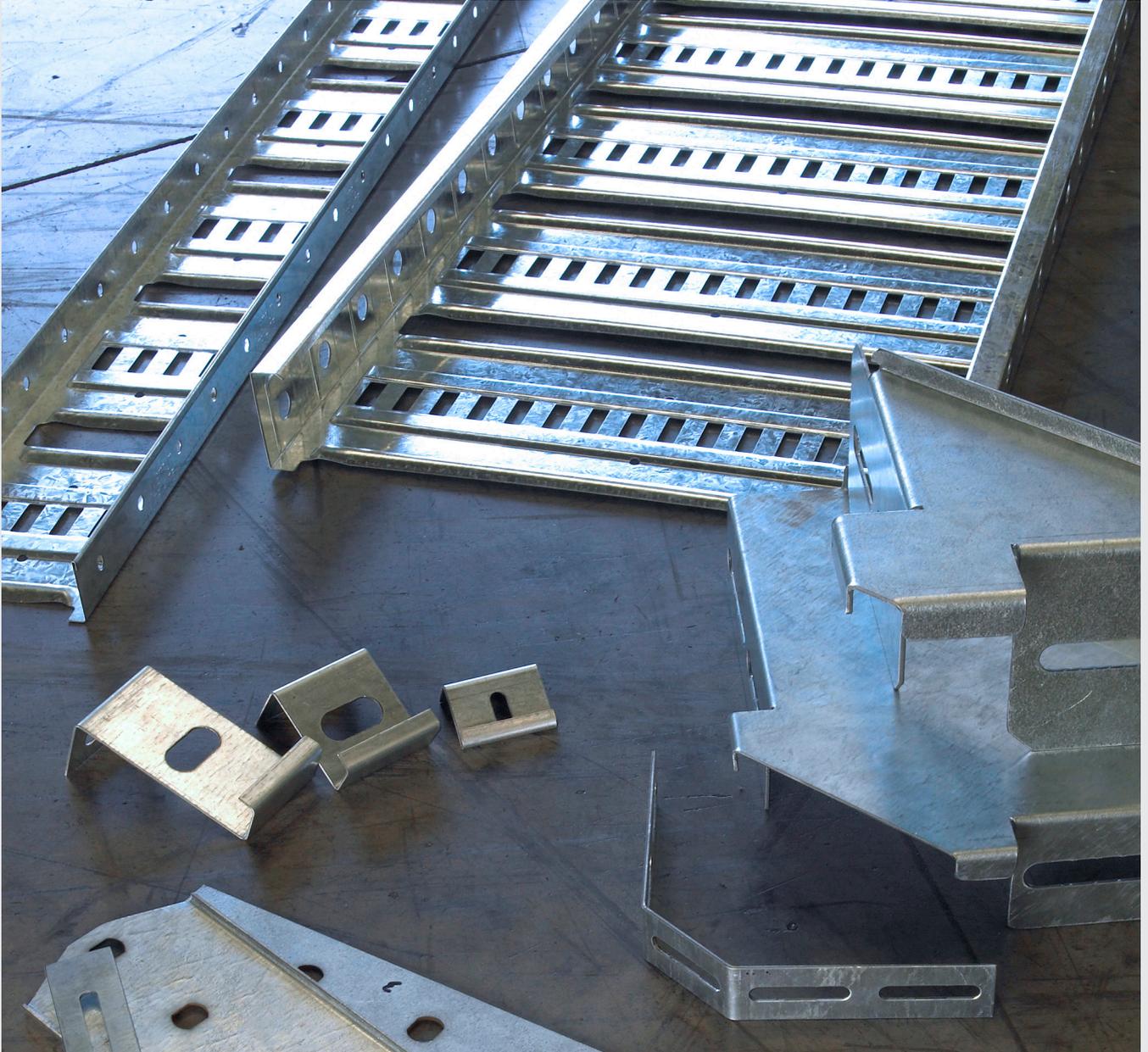
We continue to make investments in our people, products and services. Our ability to share our experience and knowledge with our customers is the key to our success in a wide range of industry sectors.

Part of the Atkore International family

Atkore is a major manufacturer and innovator with a unique focus on steel frame, pipe and electrical products. As part of the Atkore family we can draw on a variety of technologies, products and experience from Atkore companies throughout the world.



Unistrut Laddertray : Unitray



Our Unitray system offers the contractor the ability to site-manufacture all required junctions, thereby reducing installation cost over traditional cable trays and ladders.

Unitray also presents the most comprehensive range of accessories such as cost effective prefabricated reducers for speed of installation on site and a more appealing finish.

Unitray is used widely as an architectural cable support, and the comprehensive range of light, medium, and heavy duty products ensure that the Unistrut Unitray system is an aesthetically pleasing and cost effective cable support medium.

Unistrut has the widest distribution organization throughout both Australia and New Zealand, ensuring easy access to the Unitray range and the full range of complementary Unistrut support systems plus other cable support ranges.

Unitray by Unistrut without question offers a comprehensive and cost effective support medium with the famous unrivalled

**UNISTRUT QUALITY
GUARANTEE.**



Unistrut - Tables and Key

To assist you in navigating through this catalogue we have divided this catalogue into defined sections :

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Material Finish

Finish	Code
Galvabond	GB
Hot Dipped Galvanised	HG
Stainless Steel	SS
Zinc Plated	ZP
Aluminium	AL

Icon Key - Features



Time Saving



New!



Self Splice



Sold as Pair



Light Weight



Sold as individual

Galvabond (GB)

Base material is supplied ex the Steel Mill in pre-galvanised finish, in accordance with AS/NZS 1397, with a coating class of Z275.

The material is slit to width, punched and formed in to the Unitray profile.

Hot Dipped Galvanised (HG)

Coatings are applied generally in accordance with AS/NZS 4680. The thickness of the coating is dependent on the material thickness of the component being galvanised. It should be noted that due to the galvanising process, the thickness of the coating will vary over the surface and should be taken into account during component assembly. It may be necessary to remove excess build-up prior to use.

Stainless Steel (SS)

Corrosive resistant stainless steel with no additional surface treatment. This material option provides the best corrosion resistance available. Stainless steel is used primarily in marine environments or food processing facilities.

Zinc Plated (ZP)

Fasteners are electroplated generally in accordance with AS 1897.

Aluminium (AL)

Lightweight and corrosive resistant - ideal for marine industry

Other – Powder Coated (EPC)

When specific applications require other commercially available finishes, they can be supplied according to specification.

Special Materials and Coatings available upon request

UT1 Unitray

UNISTRUT presents the new Unitray range, with a versatile profile that adds strength and simplifies installation.

UT1 is available with 30mm side height, 3 metres in length and a variety of widths to meet all your application needs.



Light Weight



Sold as individual

Nominal Size (W)	Length	Part No.	
		GB	HDG
mm	mm		
100	3000	UT1-100G	UT1-100H
125	3000	UT1-125G	UT1-125H
175	3000	UT1-175G	UT1-175H
250	3000	UT1-250G	UT1-250H
325	3000	UT1-325G	UT1-325H

Basic load 20kgs/linear meter on 1.5m span

UT3 Unitray



UNISTRUT presents the new Unitray range, with a versatile profile that adds strength and simplifies installation.

UT3 is available in differing finishes with 50mm side height, 3 metres in length and a variety of widths to meet all your application needs.

NOTE : Normal size (W) is measured from inside of top return flanges.
Actual width W1 = W+22mm



Light Weight



Sold as individual

Nominal Size (W)	Actual Size (W1)	Length	Part No.			
			GB	HDG	AL *	SS *
mm	mm	mm				
150	172	3000	UT3-150G	UT3-150H	UT3-150AL	UT3-150SS
300	322	3000	UT3-300G	UT3-300H	UT3-300AL	UT3-300SS
450	472	3000	UT3-450G	UT3-450H	UT3-450AL	UT3-450SS
600	622	3000	UT3-600G	UT3-600H	UT3-600AL	UT3-600SS

NOTE : * Special order only - non-returnable

Basic load 125kgs/linear meter on 1.5m span

UT3 CABLETRAY

Deflections mm

	10mm	20mm	25mm	35mm
Span 1.5 meters				
Span 2.0 meters				
Span 2.4 meters				
Span 3.0 meters				

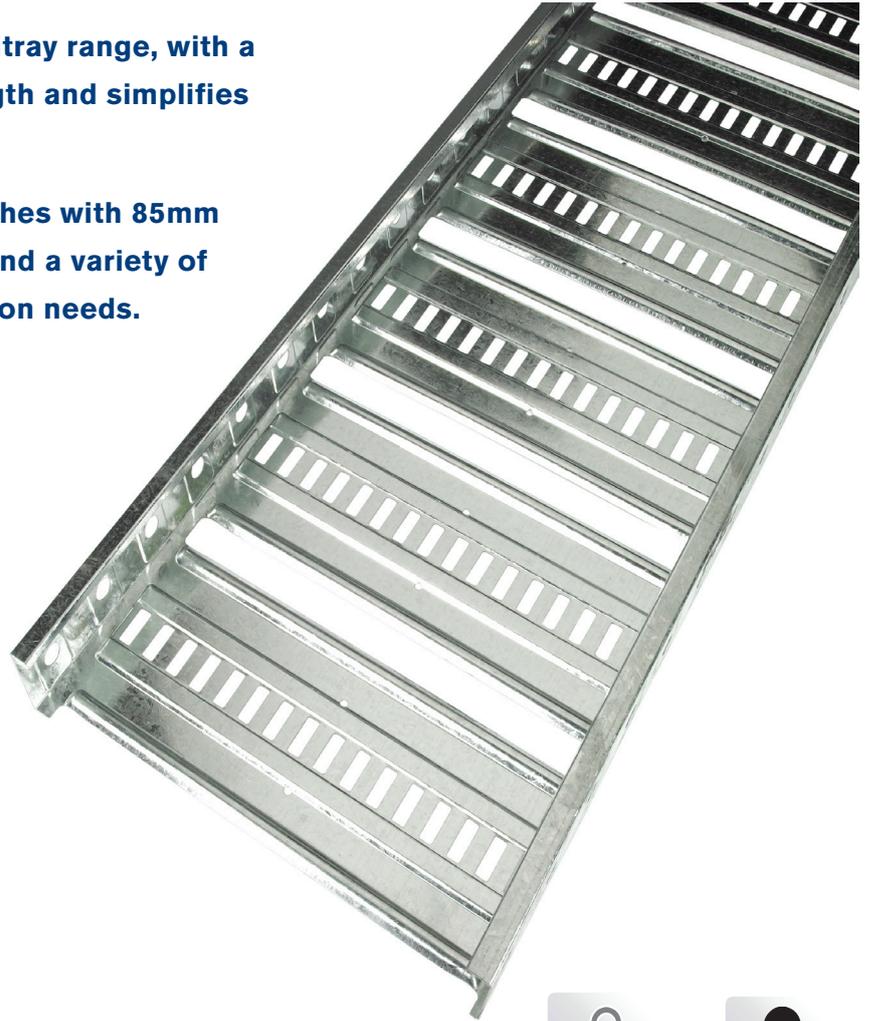
Allowable Load 125kg/m 75kg/m 50kg/m 35kg/m

NOTE : The deflections have been provided as a guide based on CONTINUOUS spans.

UT5 Unitray

UNISTRUT presents the new Unitray range, with a versatile profile that adds strength and simplifies installation.

UT5 is available in differing finishes with 85mm side height, 3 metres in length and a variety of widths to meet all your application needs.



NOTE : Normal size (W) is measured from inside of top return flanges.
Actual width W1 = W+22mm



Light Weight



Sold as individual

Nominal Size (W)	Actual Size (W1)	Length	Part No.			
			GB	HDG	AL *	SS *
mm	mm	mm				
150	172	3000	UT5-150G	UT5-150H	UT5-150AL	UT5-150SS
300	322	3000	UT5-300G	UT5-300H	UT5-300AL	UT5-300SS
450	472	3000	UT5-450G	UT5-450H	UT5-450AL	UT5-450SS
600	622	3000	UT5-600G	UT5-600H	UT5-600AL	UT5-600SS

NOTE : * Special order only - non-returnable **Basic load 75kgs/linear meter on 3.0m span**

UT5 CABLETRAY

Deflections mm



Allowable Load **220kg/m 130kg/m 100kg/m 75kg/m**

NOTE : The deflections have been provided as a guide based on CONTINUOUS spans.

UT1 - Unitray Fittings

UT1 - 30mm Tray Gusset



Type	Part No.		
	GB	HDG	EPC *
UT1	UT1AG-G	UT1AG-H	UT1AG-E

UT1 - 30mm Splice Plate



Type	Part No.		
	GB	HDG	EPC *
UT1	UT1SP-G	UT1SP-H	UT1SP-E

UT1 - 30mm Hold Down Bracket



Type	Part No.		
	GB	HDG	EPC *
UT1	UT1HDB-G	UT1HDB-H	UT1HDB-E

UT1 - 30mm Link Plate



Type	Part No.		
	GB	HDG	EPC *
UT1	UT1LP-G	UT1LP-H	UT1LP-H

UT1 - 30mm Radius Plate



Type	Part No.		
	GB	HDG	EPC *
UT1	UT1RP-G	UT1RP-H	UT1RP-E

1.2 metre length

Key

Code	Material
GB	Galvabond
HDG	Hot Dipped Galvanized
EPC *	Electro Powder Coated

NOTE : * Special order only - non-returnable

UT3 - Unistrut Fittings

UT3 - Tray Gusset



Type	Part No.			
	HDG	EPC *	AL *	SS *
UT3	UT3AG-H	UT3AG-E	UT3AG-AL	UT3AG-SS

UT3 - 50mm Splice Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT3	UT3SP-G	UT3SP-H	UT3SP-E	UT3SP-AL	UT3SP-SS

UT3 - 50mm Hold Down Bracket



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT3	UT3HDB-G	UT3HDB-H	UT3HDB-E	UT3HDB-AL	UT3HDB-SS

UT3 - 50mm Link Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT3	UT3LP-G	UT3LP-H	UT3LP-E	UT3LP-AL	UT3LP-SS

UT3 - 50mm Radius Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT3	UT3RP-G	UT3RP-H	UT3RP-E	UT3RP-AL	UT3RP-SS

3 metre length

Key

Code	Material
GB	Galvabond
HDG	Hot Dipped Galvanized
AL *	Aluminium
SS *	Stainless Steel
EPC *	Electro Powder Coated

NOTE : * Special order only - non-returnable

UT5 - Unitray Fittings

UT5 - 85mm Tray Gusset



Type	Part No.			
	HDG	EPC *	AL *	SS *
UT5	UT5AG-H	UT5AG-E	UT5AG-AL	UT5AG-SS

UT5 - 85mm Splice Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT5	UT5SP-G	UT5SP-H	UT5SP-E	UT5SP-AL	UT5SP-SS

UT5 - 85mm Hold Down Bracket



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT5	UT5HDB-G	UT5HDB-H	UT5HDB-E	UT5HDB-AL	UT5HDB-SS

UT5 - 85mm Link Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT5	UT5LP-G	UT5LP-H	UT5LP-E	UT5LP-AL	UT5LP-SS

UT5 - 85mm Radius Plate



Type	Part No.				
	GB	HDG	EPC *	AL *	SS *
UT5	UT5RP-G	UT5RP-H	UT5RP-E	UT5RP-AL	UT5RP-SS

3 metre length

Key

Code	Material
GB	Galvabond
HDG	Hot Dipped Galvanized
AL *	Aluminium
SS *	Stainless Steel
EPC *	Electro Powder Coated

NOTE : * Special order only - non-returnable

Accessories and Technical cutting fittings

Centre Hold Down Clamp



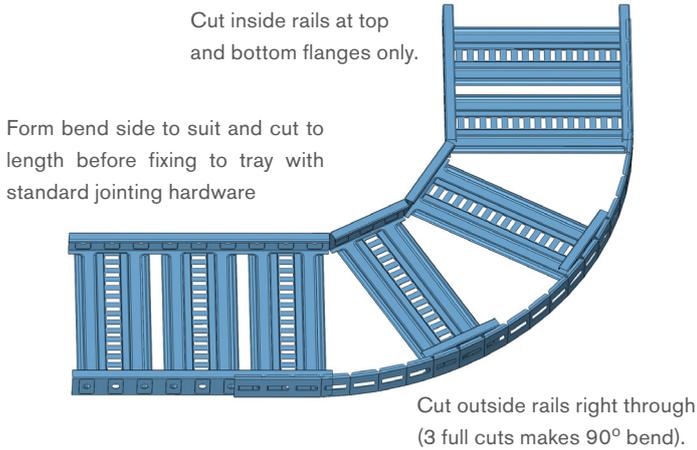
Type	Part No.
Universal	GB
Each	UTCHD

Nuts & Bolts

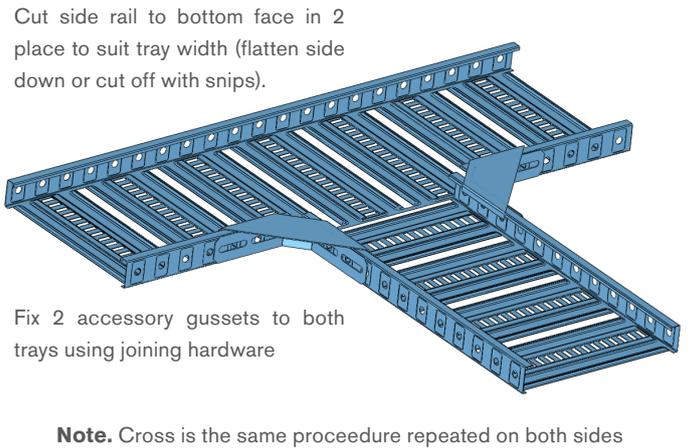


	Part No.	
	Bolt	Nut
Each	UTBZ	UTNZ

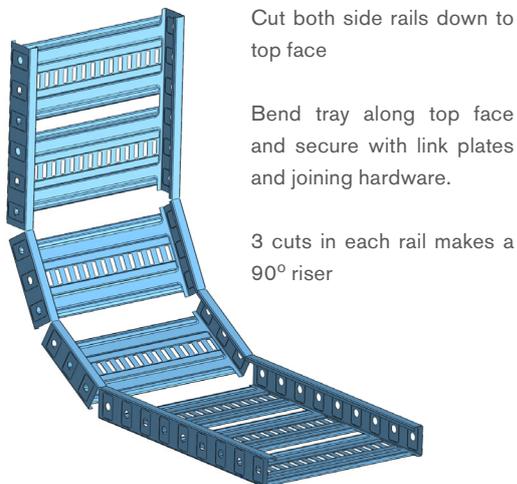
Flat Bend



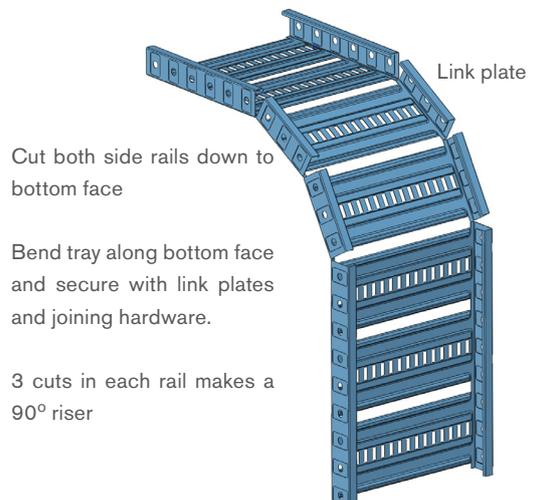
Tee



Inside Riser



Outside Riser



Technical - Materials

Often the most difficult decision to be made is the selection of material, because it involves the most cost-sensitive of compromises.

Material choice is directly related to service life and the longer the required life the more expensive will be the materials. The cost of these materials also must be considered as an equation of initial investment versus maintenance costs and eventual replacement.

Because service conditions for Unitray can vary over an enormously wide range, even within a single installation, it is impossible to write down any hard and fast rules on the subject of corrosion and expected lifespan.

The following may be considered a guide as to what can be expected from the various materials and finishes currently available for our cable support systems.

Galvabond

Galvabond, also known as Pre-Galvanised, is the most commonly used product finish for internal installations. The Z275 impregnated coating shows good resistance to corrosion in protected environments, and is cost effective against all other coating options.

Aluminium

Aluminium is also a popular choice of material for Unitray. Most frequently it is selected because of its excellent performance in marine environments such as is found on wharves, coal loaders or similar Port Facilities where salt spray or salt laden atmosphere is present. Another reason for using aluminium is that it offers a long maintenance free life which is important in cases where access for future painting or repairs may be costly and difficult.

For any given load class or capacity, aluminium Unitray is more expensive than their galvanised steel counterparts. Aluminium Unitray can also be expected to have a greater deflection than an equivalent steel system. On the other hand, they are lighter, more readily handled and are easy to work with, resulting in faster installation and therefore lower installation cost.

Hot-Dip Galvanized Steel

Hot-dipped galvanised steel (after fabrication) is a common selection, as it is economical to purchase and suitable for most conditions of outdoor exposure. For indoor applications, or anywhere that is essentially free from moisture, galvanised Unitray can be considered to have an indefinite life. That is, they should last as long as the plant, building, cabling or equipment which they service.

On a typical industrial or processing plant installation, exposed to weather, moisture and airborne industrial pollution, a basic life of approximately ten years can be expected. This is not to say that the Unitray will be completely corroded in that time but it is the probable life of the corrosion protection finish. Beyond that time, rapid decay can be expected and maintenance costs will increase substantially in order to keep the Unitray serviceable.

If installed near the coast, the effect of salt laden air may shorten the expected life. Also galvanising is sensitive to some chemicals, especially sulphurous compounds, which may be intrinsic to plant operations where the Unitray is installed. Correspondingly, a longer life will be expected in lighter industrial situations and if drier conditions exist.

Stainless Steel

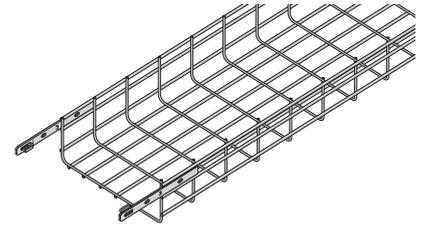
Stainless Steel is sometimes considered as a material for Unitray, usually where extremely high corrosion resistance, coupled with difficulty of servicing after installation and a high degree of reliability are essential requirements. An off-shore oil drilling platform may be one example where these conditions exist.

Unistrut, more than you imagine.

Product range

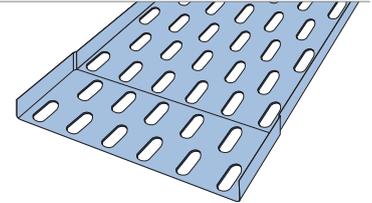
Wire Baskets

Ideal for a variety of applications, our wire baskets feature a self splicing system, designed to be simple to assemble and proven to be 80% faster in mounting time than standard splicing – eliminating the need for nut and bolt connections.



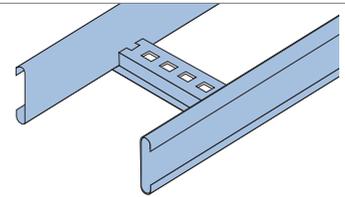
Cable Trays

A simple and cost effective support for communication and power cable distribution. Slots running down the length of the trays enable easy installation of cable ties, and the joggled end for joining lengths and accessories eliminates the requirement for separate joiners. Aesthetically pleasing for architectural requirements.



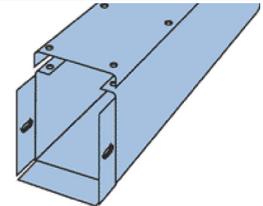
Cable Ladders

Unistrut cable ladders are the ideal solution when installing large power cables that need to be supported safely. Available in light, medium and heavy duty patterns to suit your application and in Aluminium, galvanised steel, stainless steel and fibreglass materials.



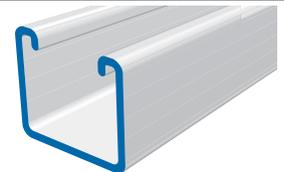
Cable Duct

The Unistrut Trunking system is designed to be quick and simple to assemble, providing real time saving as well as remaining a reliable product throughout its natural life cycle. Preassembled Internal Trunking Connectors allow you to securely connect trunking lengths in seconds, giving a neat external finish.



Metal Framing

The original Unistrut metal framing offers unrivalled quality and durability and is designed to work with the full range of new Unistrut parts and accessories. Designed and created by us, our metal framing underlines our commitment to produce products you'll be proud to install.



Sector focus



Oil and gas



Rail



Petrochemical



Aviation



Datacentres

For additional information visit
www.unistrut.com.au or www.unistrut.co.nz

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