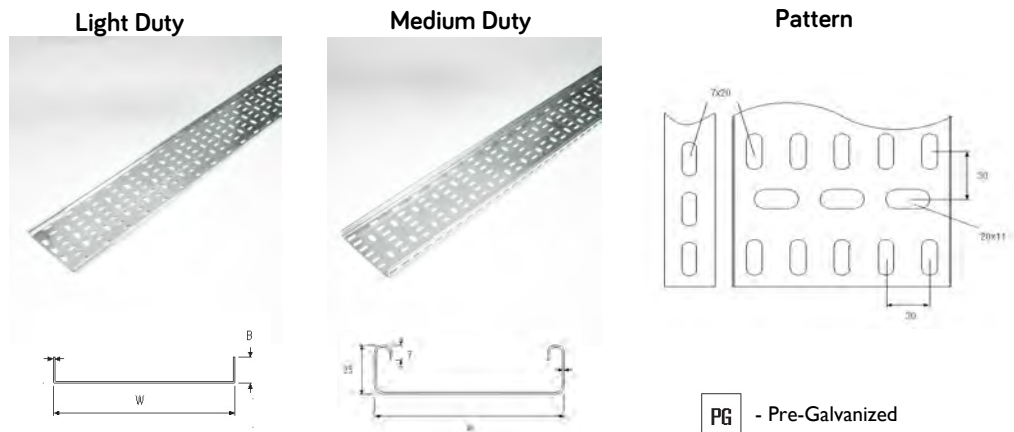


Cable Tray System

TULL
TUML
TUHL



Product description

Newlec Cable tray is supplied in 3M Lengths as standard, and is supported by a fully integrated range of time saving fixings and complimentary fittings. Featuring a unique cross slot pattern, this cable tray pattern has been developed to offer flexibility and speed of fitting.

The cable trays are manufactured from Pre-galvanized steel conforming to BS EN 10346:2009, and consist of both a Medium duty and Light Duty product range.

The Medium Duty Range utilises a 25mm Return flange that offer improved loading, and quick connectivity from our high integrity wrap over couplers. The light duty 'U shaped' tray has a joggled end that allow easy connection to the adjoining tray.

All the trays listed have associated accessories to provide quicker on-site installation. Furthermore, all of our bends, tees risers etc. include integral jointing plates or couplers to offer speed and provide a better fit, and our adjustable bends and risers allow that further flexibility where required.

Each type of Cable Tray is a total system, and by utilising associated parts (Stand-off Brackets, Bends Tees etc.) it will allow a total site install solution, reducing labour and down time.

The pattern lends itself to both cables and ties, by offering enhanced secure fit and protection. The pattern has been designed to ensure that circulation passes around and through the cables, to allow maximum performance and restrict the need to de-rate the cables.

The cable tray has been tested and proven to perform to BS EN 61537:2007 – Cable Management – Cable Tray Systems and Cable Ladder Systems, on a variety of tests including Safe Working Loads, Electrical Continuity, Fire Resistance and performance at extreme temperatures.

Key Features

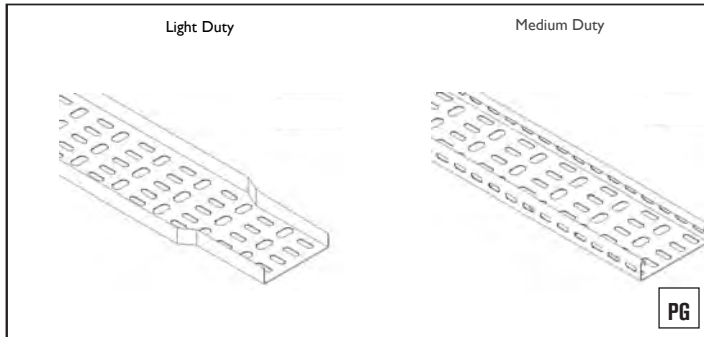
Light Duty - Available in widths from 50, 75, 100, 150, 225, 300mm that slot into itself with a swaged end, eliminating the need for couplers. 3M Lengths as standard.

Medium Duty - Available in widths from 50, 75, 100, 150, 225, 300mm with a high performance return edge, and the high integrity wrap-over couplers. 3M Lengths as standard.

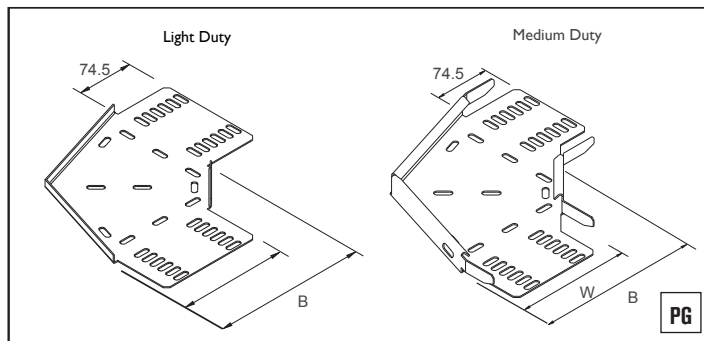
- Each Cable Tray System includes a range of factory manufactured bends, tees, reducers etc. that are unique to the sizes and ranges that incorporate fast fix integral couplers for a better fit and quicker install.
- A complimentary range of associated bracketry and fixings including, Top Hat (stand-off) Brackets with integral nuts, earth braids and cantilever arms.
- Simply fix utilising Roofing nuts and bolts (Newlec part no NLS4333AN1) and torque to 12Nm.
- The base pattern includes both 20mmx11mm and 20mmx7mm Slots to offer fixing capabilities up to M10.

Technical details

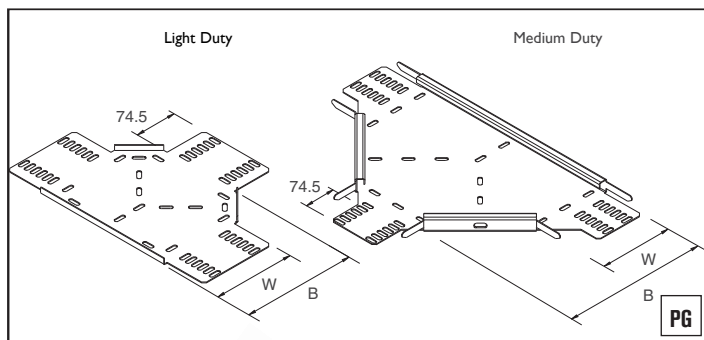
- Manufactured from Pre-galvanized Steel, complying to BS EN 10346
- Pre-galvanized minimum thickness coating of 275g m²
- Tested in accordance to BS EN 61537
- CE Marked
- Impact Resistant up to 20J
- Temperature range for transport, storage and application -50°to 60°C
- Perforation in base area >15% <30%
- Minimum internal radii on accessories 125mm
- Light Duty U Shaped Cable Tray
 - 50-225mm 12mm Wall
 - 300 18mm Wall
- Medium Duty Return Edge Cable Tray
 - 50-600mm 25mm Wall
- 20mmx11mm and 20mmx7mm Slot Pattern
- 12Nm Torque setting for Roofing nuts and bolts



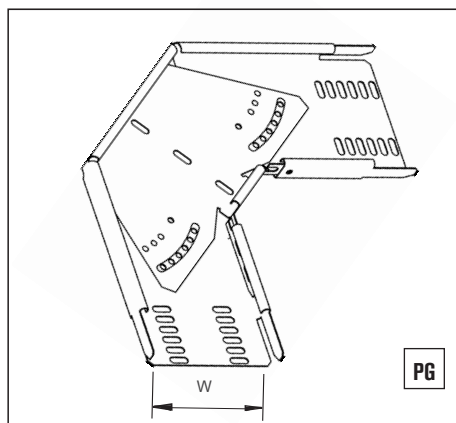
(W) Width (mm)	3M Tray Lengths	
	Light Duty	Medium Duty
50	NLL050PG	-
75	NLL075PG	NLMLT075PG
100	NLL100PG	NLMLT100PG
150	NLL150PG	NLMLT150PG
225	NLL225PG	NLMLT225PG
300	NLL300PG	NLMLT300PG
450	-	NLMLT450PG
600	-	NLMLT600PG



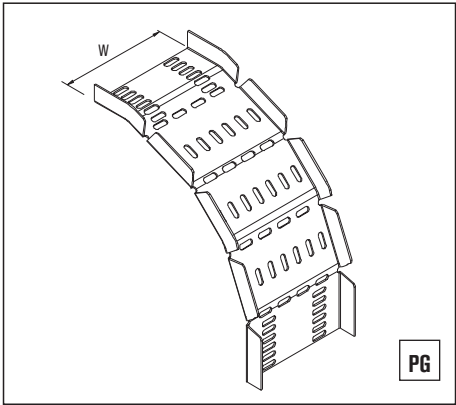
(W) Width (mm)	90° Tray Flat Bend			
	Light Duty	B	Medium Duty	B
50	NLLB05090PG	100	-	-
75	NLLB07590PG	125	NLMB07590PG	197
100	NLLB10090PG	150	NLMB10090PG	222
150	NLLB15090PG	200	NLMB15090PG	272
225	NLLB22590PG	275	NLMB22590PG	347
300	NLLB30090PG	350	NLMB30090PG	422
450	-	-	NLMB45090PG	572
600	-	-	NLMB60090PG	722



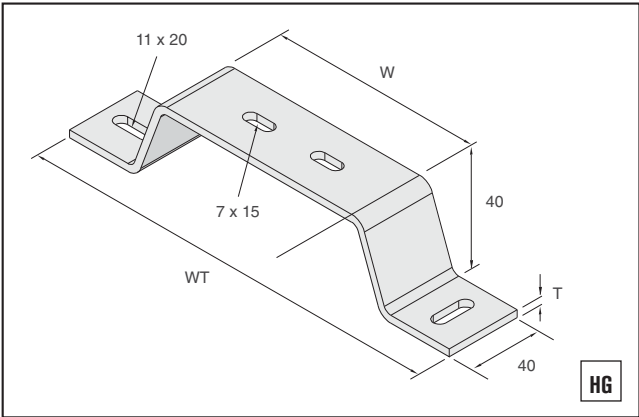
(W) Width (mm)	Tray Equal Tee - Part No.			
	Light Duty	B	Medium Duty	B
50	NLLT050PG	100	-	-
75	NLLT075PG	125	NLMT075PG	197
100	NLLT100PG	150	NLMT100PG	222
150	NLLT150PG	200	NLMT150PG	272
225	NLLT225PG	275	NLMT225PG	347
300	NLLT300PG	350	NLMT300PG	422
450	-	-	NLMT450PG	572
600	-	-	NLMT600PG	722



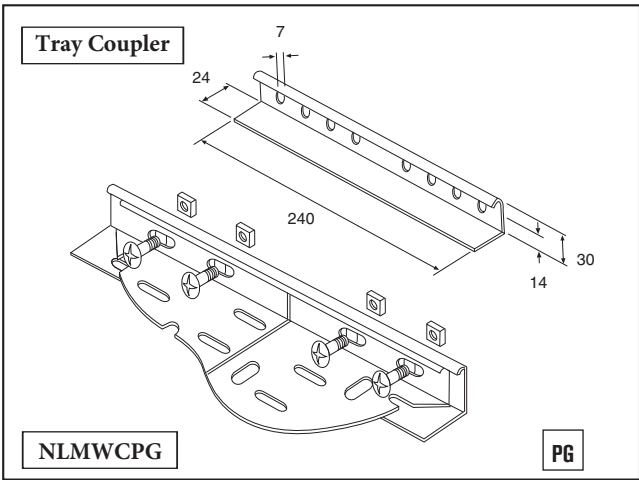
Adjustable Bend	
(W)Width (mm)	Medium Duty
75	NLMAB075PG
100	NLMAB100PG
150	NLMAB150PG
225	NLMAB225PG
300	NLMAB300PG
450	NLMAB450PG
600	NLMAB600PG



(W)Width (mm)	Tray Flexible Riser - Part No.	
	Light Duty	Medium Duty
50	NLLAR50PG	-
75	NLLAR75PG	NLMAR075PG
100	NLLAR100PG	NLMAR100PG
150	NLLAR150PG	NLMAR150PG
225	NLLAR225PG	NLMAR225PG
300	NLLAR300PG	NLMAR300PG
450	-	NLMAR450PG
600	-	NLMAR600PG

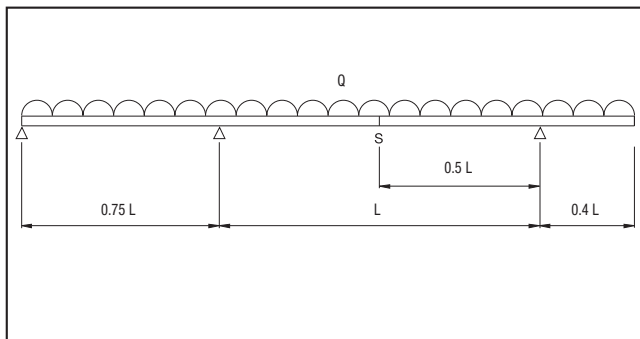


	(W)Width (mm)	(WT)Width Total (mm)
NLSB050HG	50	154
NLSB075HG	75	179
NLSB100HG	100	204
NLSB150HG	150	254
NLSB225HG	225	329
NLSB300HG	300	404
NLSB450HG	450	554
NLSB600HG	600	704



Suitable for all Medium Duty Cable Tray.
All accessories include Integral Couplers.

Loading Data



Load test according to CEI/IEC 61537:2001

Q = UDL (uniformly distributed load)

Safety Factor = 1.7

L = intermediate span

F = deflection = 1/100 of the intermediate span (max.) S = splice location

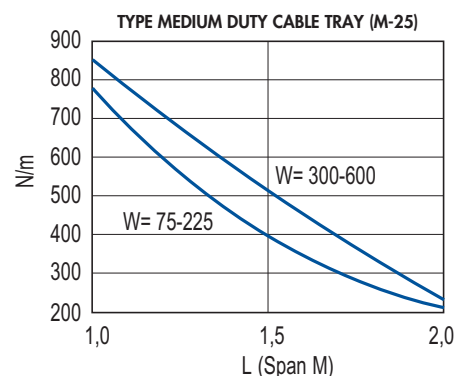
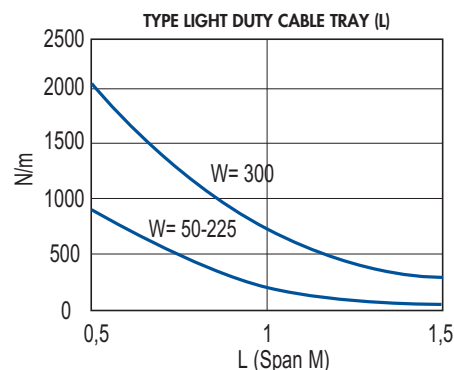
Load testing is in accordance with CEI/IEC 61537:2001. In practical terms this covers continuous/multi span installations, evenly loaded along the length of, and across the full width of the tray. The end spans in these installations should be reduced to 0.75 of the intermediate spans.

DEFLECTION: Load and deflection figures are in accordance with CEI/IEC 61537:2001, with the characteristic deflection of Cable Tray limited to span/100. and load figures inclusive of a safety factor of 1.7.

ACCESSORIES: To ensure adequate support, accessories should be supported locally.

COUPLERS: The loading and deflection tables for Cable Tray assume that the couplers are located at the most onerous position within the span (i.e. mid span).

To maintain the load/deflection figures stated in the tables, the couplers should not be located in end spans or over support locations. Straight couplers were utilised for the testing of the medium and heavy duty cable trays. Only one pair of couplers should be installed per span.



LIGHT DUTY (L)

Width mm	Useful cross section (cm ²)
50	5.4
75	8.1
100	10.9
150	16.6
225	24.9
300	49.9

MEDIUM DUTY (M-25)

Width mm	Useful cross section (cm ²)
75	17.4
100	23.5
150	35.6
225	53.7
300	70.4
450	106.1
600	141.8