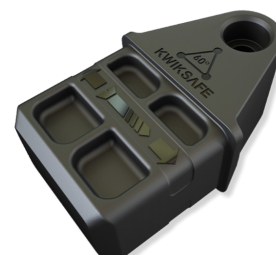




**Universal Connector**



**Rail Connector**



**60° Rail Connector**

COMPONENT	All Connectors
<b>Engineering Plastic</b>	Nylon 6 (Polyamide) Thermoplastic
<b>Glass Reinforcement</b>	30%
<b>Properties</b>	Black & UV Stabilised
<b>Nut Inserts</b>	M6 304 Stainless Steel
<b>Connection Screw</b>	M6 x 40mm Zinc-Plated Socket Head Screw
<b>Fixings</b>	10G x 16mm Galvanised Wafer Head Screw

COMPATIBLE MATERIALS	
<b>Galvanised Steel</b>	50 x 50 x 1.6 mm SHS
	38 x 25 x 1.2 mm RHS
<b>Aluminium</b>	50 x 50 x 2.5 mm SHS
	38 x 25 x 1.5 mm RHS

## NYLON 6 (POLYAMIDE) THERMOPLASTIC

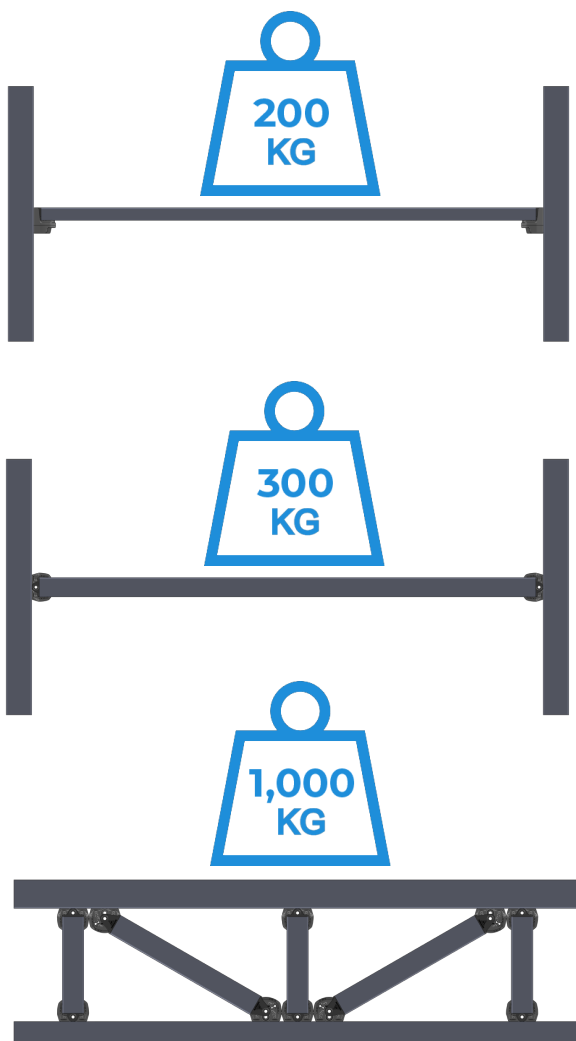
Nylon 6 (Polyamide) Thermoplastics are primarily used in Injection Moulding applications with excellent electrical insulation, corrosion resistance, toughness, fatigue properties and both high impact and mechanical strength making it ideal for high load parts.

## NATA ACCREDITED LOAD RATINGS

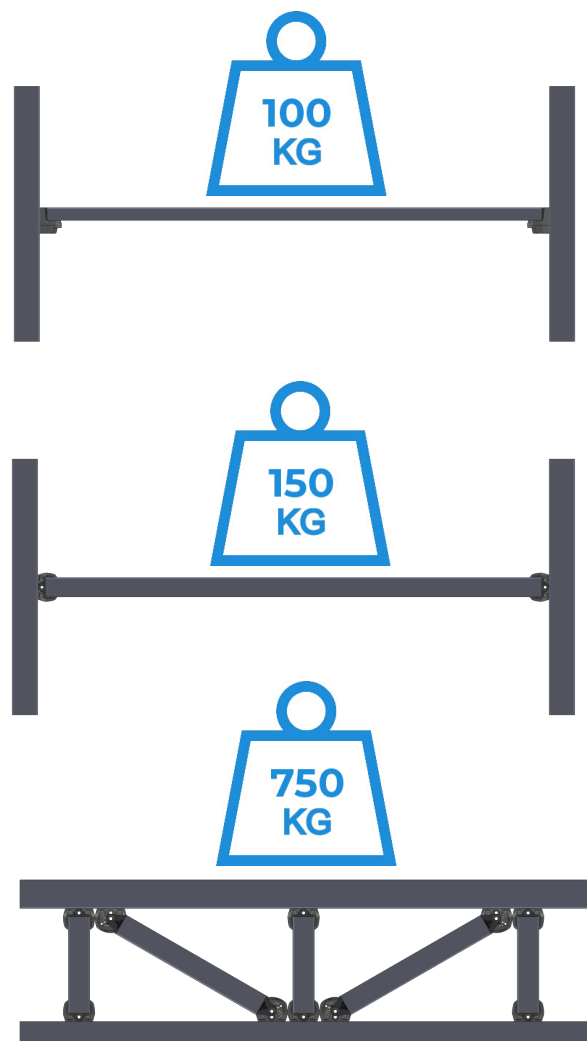
Load & Compression Force Testing conducted by NATA Accredited Intertek Pty Ltd under ISO/IEC 17025 Conditions using a Shimadzu Universal testing Machine (calibration No. A28131FC) at a crosshead rate of 5mm with a 1 minute hold before releasing the load conducted in 30°C ambient temp.

**NOTE** - All Load & Compression Force Tests failed due to the deformation of the steel or aluminium beams over a 1m span

### GALVANISED STEEL RHS



### ALUMINIUM RHS



## UNIVERSAL CONNECTOR

4 x Self-tapping Screw holes positioned for maximum unit strength

Open mid-section to ensure Rail Connector sits flush against fixed surface

2 x Gussets formed each side for maximum strength and locking aid

Raised lip with multiple breaks to aid with Locking Angle selection

Step joining on both side gussets to evenly disperse stress placement

2 x 304 Nut Inserts distribute rotation forces during tightening

Nut housings attached to a gusset to distribute forces to the unit's perimeter

All Cavities designed with through holes to eliminate possible muck build up

## RAIL CONNECTOR

Morse Taper Male Adaptor for easy fitting and maximum connection

Morse Taper left bare to allow for wear & tear during repeat use

Designed to fit 38 x 25 RHS as close to 50 x 50 as technically possible

Closest joining distance exactly 15mm for easy fabrication calculations

Socket Head Cap Screw Cavity for perfectly flat joint connection

Ribbed sides to allow for multiple thickness of 38 x 25 from 1.2 mm to 1.6 mm

Screw symbol for easy location of Fixing placement

Two-sided tapered locating pins for additional strength to all locking angles

## 60° RAIL CONNECTOR

Morse Taper Male adaptor with 3 x Extended Locking Angles

Shoulders designed to lock tight against Gussets for additional strength

2 x Broken Lip Sections to allow for full connection engagement

60° Symbol on top-side for easy identification

## REQUIRED TOOLS



POWER DRILL OR  
IMPACT DRIVER



No. 2 PHILLIPS  
DRIVE BIT



HEX 5 IMPACT  
DRIVE BIT



TAPE  
MEASURE



PERMANENT  
MARKER



SAFETY  
GLOVES



SAFETY  
GLASSES



STEP  
LADDER

## INGENIOUS DESIGN

11 X Available Locking Angles consisting of 0°, 11.25°, 22.5°, 33.75°, 45° & 60° and Included Angles of 56.25°, 67.5°, 78.75°, 90° and 120°

Fix your Connectors directly to your hollow metal with no preparation

Zinc-plated Screws suffer minimal thread galling due to stainless steel nut

Specifically designed to be used with Standard Fencing Materials

Made from the world's most performance proven thermoplastic - Nylon 6

UV Stabilised resin provides UV Protection against the Australian sun

30% Glass Reinforced for ultimate strength, stiffness and toughness

Working temperature range of -30°C to 90°C

## CLINICAL PRECISION

Injection Moulded under strict AS/ISO90001 Quality Control

9 Years of Tooling Research, Testing and Development

## COMPRESSION FORCES

Kwiktech improves on the century-old construction principle of Compression Forces, similar to Timber Trusses used in House Construction, to ensure your hollow metal framework is as strong as the hollow metal itself.

## BRACE CONNECTION

Kwiktech is a Brace Connection, not a joint, ensuring there is no weak point in your framework with NATA Accredited Tests confirming the hollow metal deforms before any signs of stress are detectable on the Connectors.