

RAILOK™ 90
VERTICAL FALL ARREST RAIL SYSTEM



Safety :

Safety while ascending and descending ladders remains a key issue in many different market sectors. In addition to providing safety, solutions that address these needs cannot restrict operators from completing their work.



Confidence :

Rather than utilising a webbed shock absorber that will deteriorate over time, the shuttle device employs a revolutionary metallic absorber to significantly reduce the forces on the user to less than loads allowed by governing bodies. A key benefit of this technology is the absence of a limited life span common to other metallic parts. Providing the unit passes inspections, Railok™ 90 devices can be used indefinitely. Additionally, the unique energy absorption properties of the metallic shock absorber restrict normal fall distances, thereby minimising the risks involved. These features provide confidence to the user and security for the client.



Ease of use :

The ability of the shuttle device to run the length of the rail unhindered is essential. Any snagging of the shuttle will make it difficult to move freely on the system and could pose safety issues. Addressing this concern, and a key advantage of the Railok™ 90 system is the smooth operation during ascent and descent provided by the design of the shuttle. While allowing freedom of movement up and down, the shuttle locks instantly on the rail in the event of a fall, minimising fall distances and forces on the user.

Integrated Solution :

In applications requiring the use of a ladder where none is present, an integrated solution is available. Utilising rail machined to accept ladder rungs, the system provides the dual benefit of fall protection while meeting the need to ascend and descend the system. Other solutions require the use of two separate systems – one providing the ability to egress and the second providing fall protection.



Options :

Vertical Fall Arrest systems should not restrict foot space on the ladder rungs nor offer resistance to the user as they climb or descend. Made from high-strength extruded stainless steel or aluminium, the Railok™ 90 vertical rail system is available with a wide range of brackets providing installation options in many different configurations - even with narrow gauge ladders where foot space is restricted. These options make the system suitable for many different applications across all market sectors.

Main Components

Ladder Rung Clamp

Aluminium alloy clamp, stainless steel lock nut, galvanised steel structural members, galvanised steel and/or zinc plated steel fastening hardware

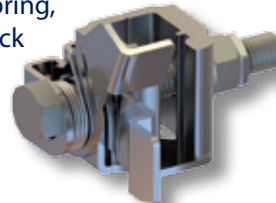
6000120



Top Gate

Aluminium alloy clamp, stainless steel spring, stainless steel lock nut and galvanised steel fastening hardware

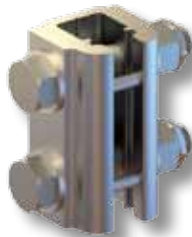
6000353



Rail Joint

Aluminium alloy, stainless steel lock nut and roll pins, galvanised steel and/or zinc plated steel fastening hardware

6000100



Standard Rail

Anodised extruded aluminium

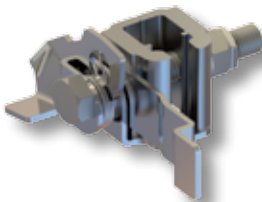
6000031 – 1 metre
6000033 – 2 metre
6000035 – 3 metre



Bottom Gate

Aluminium alloy clamp, stainless steel spring, stainless steel lock nut and galvanised steel fastening hardware

6000355



Shuttle

Aluminium alloy body, stainless steel rollers and fasteners, bronze bushings, stainless steel spring, hardened stainless steel lock arm, and annealed stainless steel energy absorber

6000377



Sectors

Requirements for ladder climbing are prevalent in many different sectors and industries. The Railok™ 90 vertical rail system can be used in multiple sectors in many different locations. Virtually any application requiring the ability to egress a vertical system safely and with 100% fall protection is addressed by Railok™ 90.



Construction



Wind Energy



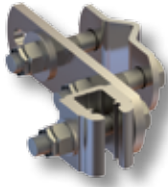
Oil & Gas



Telecommunications

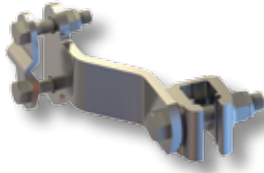
Other Components Available

Ladder Stile Clamp



6000121

Off-Set Clamp



6000190: 60mm

Step Bolt



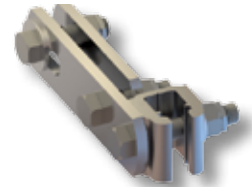
6000298: 239mm

Rest Platform



6000299

Stile & Bar Stock Clamp



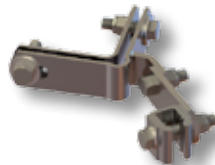
6000140: 84mm

Structural Iron Clamp



6000136: 85mm
6000131: 145mm
6000130: 150mm

Angle Iron Clamp



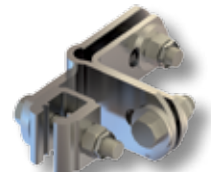
6000132: 149mm
6000133: 194mm
6000134: 244mm
6000135: 294mm

Pipe Clamp



6000122: 60.5mm
6000123: 76.3mm

Angle Iron Clamp



6000180: 60mm
6000160: 70mm
6000161: 80mm
6000162: 90mm
6000163: 100mm
6000164: 120mm

Aluminum Door



6000357

Column Clamp



6000170: 170 - 240mm
6000171: 240 - 360mm
6000172: 360 - 500mm
6000173: 500 - 650mm
6000174: 650 - 800mm

Hinged Column Bracket



6000150: 139.8mm - 143.3mm
6000151: 165.2 - 190.7mm
6000152: 216.3 - 267.4mm
6000153: 318.5 - 355.6mm

Ladder Rail



6000301: 600mm
6000302: 900mm
6000303: 1200mm
6000304: 1500mm
6000305: 1800mm
6000306: 2100mm
6000307: 2400mm

Specifications:

Capacity: Up to four users. Minimum and maximum weight based on user's weight + tools + clothing + miscellaneous items in the range of 45 kg to 141 kg. Spacing of single user per 3m of rail. **Shuttle:** Aluminum alloy body, stainless steel rollers and fasteners, bronze bushings, stainless steel spring, hardened stainless steel lock arm, and annealed stainless steel energy absorber. **Rail:** Aluminum alloy with anodised coating. **Rail Joint:** Aluminum alloy joints, stainless steel roll pins, stainless steel lock nut, and galvanised steel fastening hardware. **Rail Clamps:** Aluminum alloy clamps, galvanised steel structural members, stainless steel lock nut, and galvanised steel and/or zinc plated steel fastening hardware. **End Gates:** Aluminum alloy clamps, stainless steel spring, stainless steel lock nut, and galvanised steel fastening hardware. **Step Bolt:** Galvanised steel bolts and fastening hardware. **Anti-Climb Door:** Aluminum door, zinc plated and galvanised steel fasteners, and galvanised steel structural members. **Rest Platform:** Galvanised steel structure, galvanised steel and stainless steel fastening hardware, and stainless steel hinge. **Environmental:** Operational working range: -50°C to +70°C - No ice allowed on shuttle or rails. The Railok™ 90 Vertical Fall Arrest Rail System complies with CE EN353-1, CSA Z259.2.1 and ANSI A14.3