

# KAG SAFETY RAIL



(Hand rails, Grab rails, Ladders & Balustrading)

## APPLICATIONS

Safety hand rail on all walkways, ladders and balustrading where **real grip** is required.

Reduces the problem of “slippery” hand rails in buildings, worksites, public places, industrial equipment, boats, trucks, trains and buses. Anywhere safety rails are required.

## UNIVERSITY TESTED

KAG Rail was independently assessed by the School of Engineering, Queensland University of Technology in July 2009. The University estimated the improvement of grip by KAG Rail compared to plain stainless- steel tube. They concluded that the estimated improvement for KAG Rail was:

- Under **Dry** conditions - **110% up to 160%** grip improvement (2.1 to 2.6 times more)
- Under **Wet** conditions - **up to 80%** grip improvement (1.8 times more)
- Under **Oily** conditions - **up to 300%** grip improvement (4 times more)

## PATENT

The KAG Rail “contour” design is unique and has been granted Innovation Patent No. 2009100535. This patent has been examined and is fully enforceable in Australia.

## SPECIFICATIONS

Available in sizes ranging from:

- 19mm tube up to 50mm NB pipe

Swage pattern can be started and stopped at any point along the rail to allow for standard fittings, tees, elbows end caps and bends.

Swage pattern is used wherever grip is required.

KAG Rail can be produced in left or right hand configurations (for ladders etc)

Fibre-Optic lighting can be fitted to illuminate low light areas in building or underground mines.



**MATERIALS**

Available in a wide range of materials, sizes and wall thicknesses:

<b>Stainless steel</b>	<b>304,316,409 in standard #320 or #600 mirror finishes. Can be produced up to 4mm thick</b>
<b>Aluminium</b>	<b>All grades – some grades can be anodised (clear or coloured)</b>
<b>Steel</b>	<b>Mild, zinc plated, galvanised (can be powder coated)</b>
<b>Brass and copper</b>	<b>Can be polished and lacquered or patinated-aged look.</b>

**PRODUCTION CAPACITY:**

Up to 800 lineal metres a day of KAG Rail can be produced in one shift. More can be produced with advance notice.

**QUALITY STANDARD**

All KAG Rails are manufactured to AS1428 standard

**For More Information, Contact:**

**ABECK Group**

**Email: [sales@abeckgroup.com.au](mailto:sales@abeckgroup.com.au)**

**Phone: 1800 236 337**

**WEB: [www.abeckgroup.com.au](http://www.abeckgroup.com.au)**



**Continuous Miner Hand Rail Project - QLD**

