



MASTERKLAMP

Available from your local distributor:

AVAILABLE FROM:
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A.B.N. 34 134 243 588



MASTERKLAMP handrail benefits:

Being constrained by costly on-site skilled welders or expensive off-site manufacturing can now be a concern of the past. Using the proven **MASTERKLAMP** modular systems to manufacture your next handrail offers the following advantages:

See the full range of handrail products online at www.masterklamp.com

reduce installation time by up to 50%

There is no need for additional drilling or welding, simply slip the MASTERKLAMP on and hand tighten the grub screw (40NM).

reduce your costs

by redirecting your skilled welders to other work. Assembling your MASTERKLAMP handrail is comparable to building with Lego for a child.

reduce compliance costs & improve safety

No hot work permits are required and no toxic welding fumes will occur.

powder coating

All MASTERKLAMP products can be powder coated to your specific requirements.

extreme versatility

Using MASTERKLAMP provides you with extreme versatility. During installation you can readily and inexpensively adjust the rail to suit the conditions.

fully compliant

MASTERKLAMP has been independently tested and if used as specified, fully complies with the AS/NZS1170.1:2002 requirements.

fully galvanized

Being fully galvanized (in accordance with ISO1461), excellent corrosion protection is standard on every clamp. In addition, since no on-site welding is required, no cold galvanizing paint is required to protect the exposed welding joints.

tamperproof security

Hexagonal grub screws offer immediate tamperproof advantages to MASTERKLAMP. Where additional security is required strong tamperproof options are available.

Specifying MASTERKLAMP to satisfy the safety standards:

It is important to confirm with the relevant local building authority on the specification and installation of handrails to ensure that your handrail complies to the respective Safety from Falling standard.

The following table gives the upright centres for various total heights, and

at three different load criteria. These being 0.35kN/m, 0.75kN/m & 1.5kN/m.

These figures have been compiled according to the maximum permissible bending moment of the pipe (standard AS1074/BS1387), while using the medium grade pipe for all rails.

Specialist advice should be sought in relation to the structure to which the handrail is to be installed, as well as the fixings used.

Post centre distances using uniform stanchion & rail sizes.								
Pipe OD (NB):	33.7 (25)	42.4 (32)	48.3 (40)			60.3 (50)		
Wall Thickness:	3.2 (med)	3.2 (med)	4.0 (heavy)	3.2 (med)	4.0 (heavy)	5.0 (heavy)	3.6 (med)	4.5 (heavy)
height 900mm								
0.35kPa	1050	1770	2080	2330	2770	3210	4150	4880
0.75kPa	490	820	970	1080	1290	1500	1930	2280
1.50kPa	245	410	485	540	645	750	965	1140
height 1000mm								
0.35kPa	950	1600	1880	2090	2490	2890	3730	4380
0.75kPa	440	740	880	970	1160	1350	1740	2050
1.50kPa	220	370	440	485	580	675	870	1025
height 1100mm								
0.35kPa	870	1450	1700	1900	2260	2630	3390	3980
0.75kPa	400	670	800	800	1060	1220	1580	1860
1.50kPa	200	335	400	400	530	610	790	930

The maximum upright centre values have been given using MASTERKLAMP 4.02 as a railing base flange fitted perpendicular to the line of the handrail.

Note: Post centre distances are calculated using grade C250 galvanized steel pipe.

Post centre distances using 48.3mm OD stanchion & 42.4mm OD top rail.						
Stanchion OD (NB):	48.3 (40)					
Wall Thickness:	3.2 (med)	4.0 (heavy)			5.0 (extra)	
Top Rail OD (NB):	42.4 (32)	42.4 (32)	42.4 (32)	42.4 (32)	42.4 (32)	42.4 (32)
Wall Thickness:	3.2 (med)	4.0 (heavy)	3.2 (med)	4.0 (heavy)	3.2 (med)	4.0 (heavy)
height 900mm						
0.35kPa	2330	2330	2710	2770	2710	2950
0.75kPa	1080	1080	1290	1290	1500	1500
1.50kPa	540	540	645	645	750	750
height 1000mm						
0.35kPa	2090	2090	2490	2490	2710	2890
0.75kPa	970	970	1160	1160	1350	1350
1.50kPa	485	485	580	580	675	675
height 1100mm						
0.35kPa	1900	1900	2260	2260	2630	2630
0.75kPa	800	800	1060	1060	1220	1220
1.50kPa	400	400	530	530	610	610

MASTERKLAMP

Handrail solutions

- versatile
- wide range
- durable

Part of the Masterklamp Solutions Range view online at:

www.masterklamp.com



MASTERKLAMP handrail solutions:

Strength and durability combined with ease-of-use!

Installing hand or guard rails using **MASTERKLAMP** offers numerous advantages over welded systems. The **MASTERKLAMP** modular design has been tried and tested for decades in every continent of the world.



MASTERKLAMP is available in an extremely wide range of products including: tees, crosses, elbows, flanges, swivels and more. To view the complete range please view online at www.masterklamp.com

As shown in the decision tree, **MASTERKLAMP** provides an effective modular clamping solution to any situation. These include flat terrain, ramps or sloping terrain, stairs, pedestrian and machinery guardrails, industrial walkways etc. It is as a result of this versatility that **MASTERKLAMP** is used in just about any industry that you can think of. If you need a rail, **MASTERKLAMP** will have a solution.

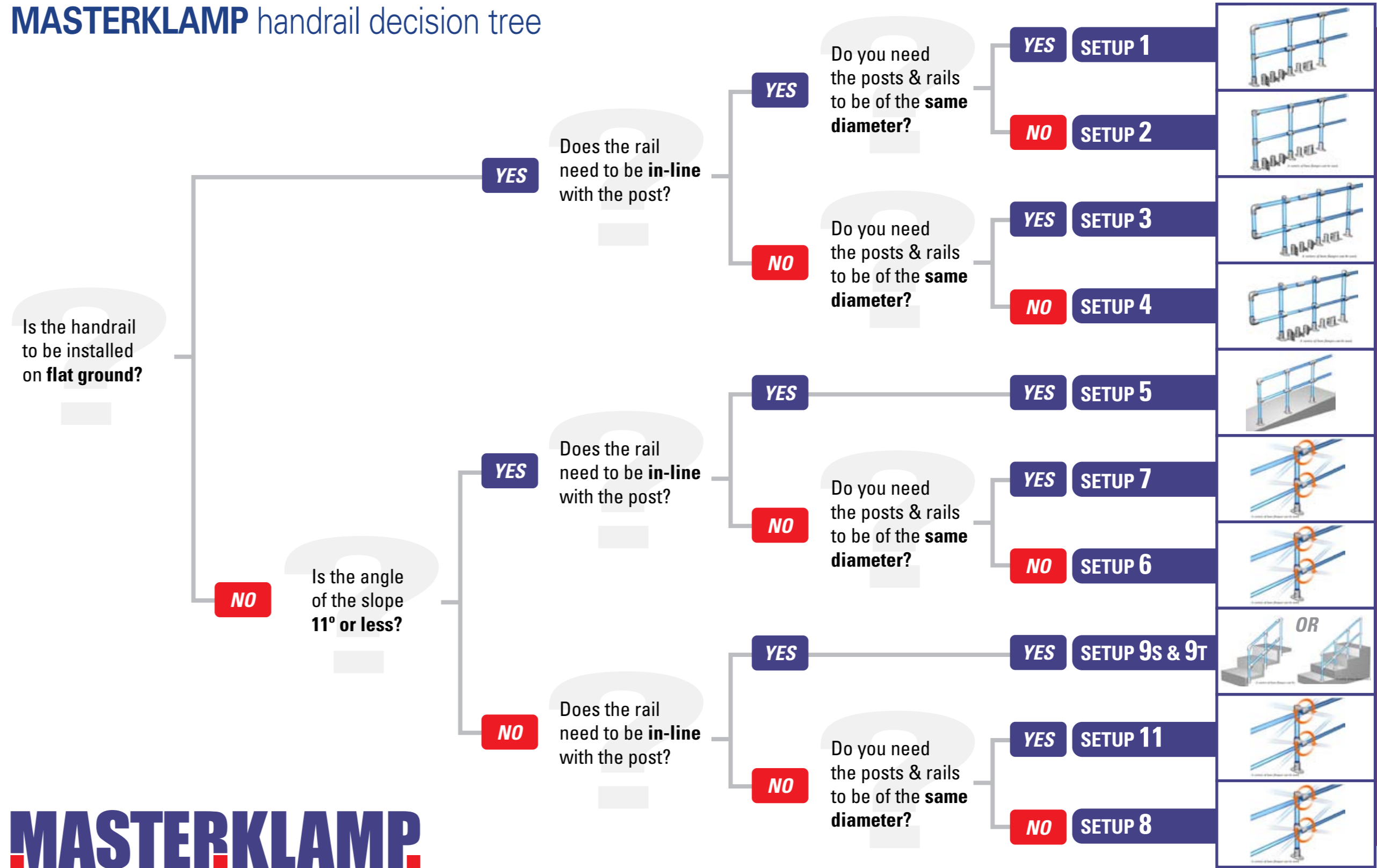
Although the majority of **MASTERKLAMP** clamps have been designed to join pipe of the same outside diameter, recent introductions of reducing clamps now offer the ability to construct handrails that comply to the Australasian norm of using different, stanchion, top and mid rail diameters. **MASTERKLAMP** is available in cast steel or aluminium, with

the advantage of the steel being its strength, while that of the aluminium being its low weight and compatibility with aluminium pipe. Typically, railing options use pipe from 33.7mm OD (25mm NB) to 60.3mm OD (50mm NB), although **MASTERKLAMP** is available from 21.3mm OD.



MASTERKLAMP handrail solutions:

MASTERKLAMP handrail decision tree



MASTERKLAMP Handrail Setup Solutions & full technical details are all available to view or download as a pdf file, just visit: www.masterklamp.com