australian rollforming™

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SHEET PILING

Section No. S990 = LP042/34, S994 = LP042/57, S485 = LP042/61, S811 = LP200/80

Australian Rollforming Manufacturers manufactures an extensive range of standard and custom formed steel sheet piling products to suit a wide variety of applications and conditions.

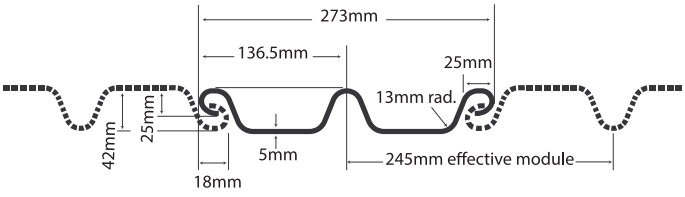
Common applications for Australian Rollforming Manufacturers sheet piling include trenching; water conservation (dams, dam cores, coffer dams), waterways (canal walls, dock walls, bulkheading), erosion control (check dams, beach groynes, cliff protection), structural (excavation and retaining walls, underpinning, formwork, bridge decks and piers, jetties, docks and causeways).

LP042/61 Medium Duty Piling

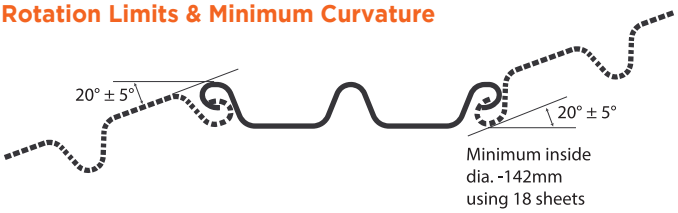
Australian Rollforming Manufacturers LP042/61 medium-duty steel sheet piling is designed to provide maximum strength, consistent with accurate, easy driving, extraction and handling. It is light and easily handled – approximately 15 kilograms per metre. LP 042/61 requires only light driving hammers, simple rigs and tooling.

LP042/61 sheets are long lasting, whether used for permanent installations or re-used for numerous temporary requirements. The sheets are cold rollformed for accuracy of profile with straightness. Strict quality control maintains standards of performance and resistance to scouring forces.

Cross Section Profile



Rotation Limits & Minimum Curvature



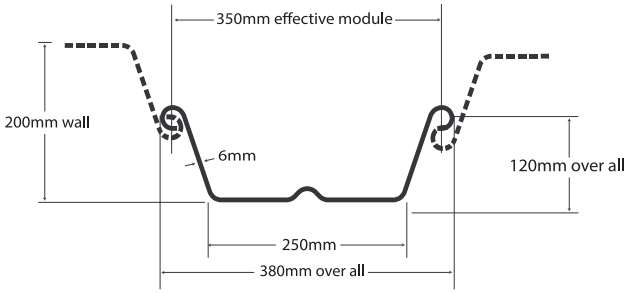
Australian Rollforming LP042/61 sheet piling is rollformed from 5.0mm thick HA300 steel to specification. AS 1594, and is available in a range of stock lengths or custom cut to size.

LP200/80 Heavy-Duty Piling

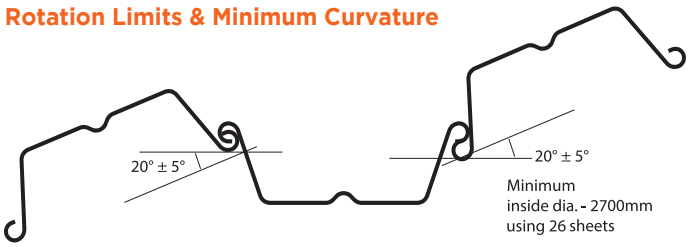
Australian Rollforming Manufacturers LP200/80 was developed to meet a need for a medium-duty, multi-purpose section. LP200/80 is lighter, less expensive and easier to handle than heavy sheet piling sections.

In addition, because it has several times the strength of light sections, LP200/80 can be used on a wide variety of projects and under more demanding driving conditions than is possible with lightweight sheet pilings.

Cross Section Profile



Rotation Limits & Minimum Curvature



Australian Rollforming LP200/80 heavy duty sheet piling has an effective cover width of 350mm per sheet and gives an over-all wall thickness of 200mm.

LP200/80 is rollformed from 6mm thick HA300 steel and is available in a range of stock lengths or custom cut to size.

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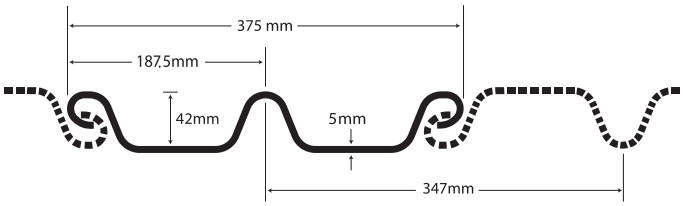
LP042/57 Medium-Duty Wide Piling

Australian Rollforming Manufacturers' LP042/57 steel sheet piling is developed specifically for sandy conditions as a cost-effective means to simplify trenchwork, eliminating the need for bracing.

Cross Section Profile

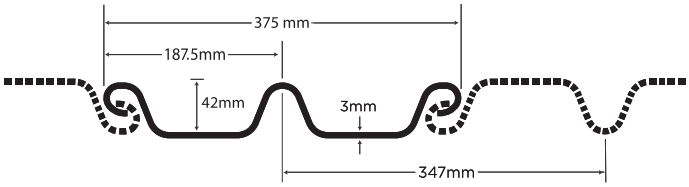


Australian Rollforming LP042/57 sheet piling is rollformed from 5mm thick hot rolled steel to specification AS 1594, grade HA300, and is available in a range of stock lengths or custom cut to size.

LP042/34 Light Weight Wide Piling

Australian Rollforming Manufacturers' LP042/34 light weight wide sheet piling is used primarily for the prevention of soil erosion. This is achieved by driving a series of check dam walls into position across the path of a water course and back filling with heavy ballast. This results in a significant slowing of the water movement and therefore a reduction in the amount of erosion.

Cross Section Profile



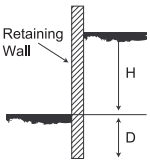
Australian Rollforming LP042/34 sheet piling is rollformed from 3mm hot rolled steel to specification AS 1594, grade HA300, and is available in a range of stock lengths or custom cut to size.

Maximum Height (H) & Maximum Depth (D)

Type of Soil or Fill	LP042/34		LP042/57		LP042/61		LP200/80	
	H (mm)	D (mm)	H (mm)	D (mm)	H (mm)	D (mm)	H (mm)	D (mm)
Well graded sand & gravel	1880	1170	2260	1410	1960	1220	3730	2320
Fine or silty sand	1810	1370	2180	1650	1890	1430	3600	2720
Soft clay	1630	2680	1960	3230	1700	2800	3240	5330
Stiff clay	1570	2590	1890	3110	1640	2700	3120	5140

Notes

Maximum height of wall (H) and the corresponding minimum driven depth (D) depend on the type of soil and the strength of the sheet piling. Where the fill differs from the soil into which the piling is driven, use the H & D values of the respective soil type.



Sections Properties

Code No.	Dimensions				For One Section				For Metre Width of Assembled Sheets			
	t (mm)	H (mm)	W (mm)	Module (mm)	Area A (mm^2)	Mass per unit Length (kg/m)	Ixx (10^6mm^4)	Zx (10^3mm^3)	Area A (mm^2)	Mass per unit Area (kg/m^2)	Ixx (10^6mm^4)	Zx ($10^3mm^3/m$)
LP042/34*	3.0	42	375	347	1500	11.78	0.34	12.56	4323	33.95	0.67	21.91
LP042/57	5.0	42	375	347	2500	19.63	0.51	18.60	7205	56.56	1.13	36.57
LP042/61	5.0	42	273	245	1910	14.90	0.39	16.90	7800	60.90	1.87	76.30
LP200/80	6.0	200	380	350	3620	28.96	6.88	95.00	10340	79.80	52.40	524.00

*Not stocked, however can be manufactured on request

Piling Reference Numbers

Reference number components denote properties of a finished wall using that particular section. The first number denotes the overall thickness of the wall and the second its mass per square metre. Thus LP 200/80 gives a wall thickness of 200mm and a mass of 80 kg/m^2.

This referencing method enables easy comparison with other sheet piling sections. Australian Rollforming Manufacturers is a custom metal rollforming specialist with the capability to rollform an almost infinite number of profiles in a wide range of metals.

Contact us to discuss your requirements.

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