

Stock Forms, types and sizes Timber-based materials

A: Key words

- Stock forms: the standard shapes and sizes in which a material is available
- Planed both sides (PBS): timber which has been planed on two sides to give it a smooth surface
- Planed all round (PAR): timber which has been planed on all sides to give it a smooth surface

B: Stock Forms

Deciding what timber product to use and whether to use **natural** or **manufactured** timbers may depend upon what it is needed for.

Both come in standard sizes so we need to ask...

- Do I need it as a sheet? How wide and long?
- Or do I need it as a length with square or rectangular section?
- Or maybe a round section length (dowel) would be useful?
- Should I use a moulding to add decoration?



Board/plank (rectangular section)	Square section	Dowel	Manufactured board	Moulding
				

C: Stock sizes: manufactured boards

Manufactured boards typically come in 2440mm x 1220mm, and 1220mm x 610mm sheets.

They are also available in a range of thicknesses between 3mm and 25mm. The thickness of plywood and MDF generally increases in 3mm increments. (6mm, 9mm and so on)



Stock sizes: natural timbers

Timber generally comes rough-sawn straight from the saw mill, but it's common for the timber merchant to then plane the wood to give it a smooth surface.

This can either be planed both sides (PBS) or planed all round (PAR), which can also be called planed square edge (PSE).

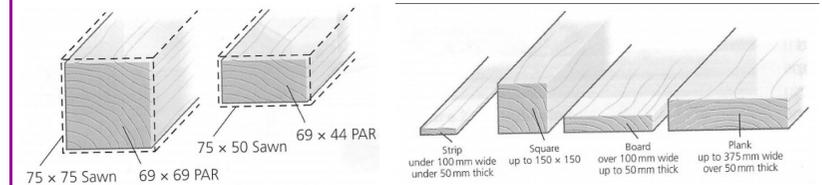
The PAR sizes will always be 2-3 mm less per side in width and thickness than rough sawn, meaning around 5mm less width and 5mm less thickness will be available.

Typical rough sawn thicknesses are: 19mm, 25mm, 38mm, 50mm and 100mm

Widths are normally: 75mm, 100mm, 125mm, 150mm and steps of 25mm up to joined boards of 300mm

Lengths are normally 1.2m, 1.5m, 1.8m, 2.4m, 3m and 3.6m, normally increasing to a maximum of 4.8m.

Dowel sizes typically range from 6mm to 18mm (diameter)



Test yourself

1. How many square metres of material are there in a standard full size board of 2440mm x 1220mm?

2. What would be the finished PAR width and thickness of a piece of timber that was machined from a sawn plank starting out at 150mm x 50mm?

3. Name as many products as you can think of which would be made using a moulding.

Revision Checklist

I can identify the different stock forms of timber-based materials

I understand that the choice of stock form will vary depending on what it is needed for

I can explain the term **planed all round (PAR)**

I can identify the stock forms which have been used to make a product

I can calculate the area of a sheet material

I can calculate the finished PAR sizes of a piece of rough-sawn timber