

Finishes

Finishes are used to improve the **aesthetics** and **durability** of products

Material Type	Finishes Used
Papers and Boards	<ul style="list-style-type: none"> • Paints • Varnishes • Laminating • Plastic coating • Wax coating
Timbers and Boards	<ul style="list-style-type: none"> • Paints • Varnishes • Wax and Polish • Staining • Oil
Metals and Alloys	<ul style="list-style-type: none"> • Painting • Lacquering • Electroplating • Galvanizing • Polishing • Plastic Coating • Powder Coating
Plastics	<ul style="list-style-type: none"> • Polishing • Painting • Decals (stickers)

Standard Components

Standard components are parts or components manufactured in the 1000s+ They are readily available, don't require specialist knowledge or tools to replace them and are universally recognised

Material Type	Components used
Papers and Boards	<ul style="list-style-type: none"> • Staples • Clips • Split pins
Timbers and Boards	<ul style="list-style-type: none"> • Nails • Screws • Panel Pins • Hinges
Metals and Alloys	<ul style="list-style-type: none"> • Nuts and bolts • Screw • Rivet • Washer
Plastics	<ul style="list-style-type: none"> • Plastic hinges

Tolerances

- The total amount a specific dimension or property is permitted to vary
This can apply to hole depth, length, angle, thickness, weight and elasticity
A gauge can be inserted into a gap or hole to check if the sizes fall within tolerance
If parts do not fit within the specified tolerances they are discarded or recycled

Quality Control and Quality Assurance

- QC is **product** oriented
Quality control is where products are regularly tested (during and after manufacture) to ensure they meet the defined set of quality criteria
- QA is **process** oriented
Quality assurance is ensuring that the processes used to test the product have been done correctly and consistently
You can test a product all you like, but if the tests are wrong/ inconsistent with each other than the results are invalid
- Below are examples of Quality Assurance symbols:



Process Orders

