

# Industrial Technology - Timber



## Year 10 Assessment Task 1 2016 Manufactured Timber Products: Research Task



**Commented [1]:**  
Plywood  
[https://upload.wikimedia.org/wikipedia/commons/f/fe/Spruce\\_plywood.JPG](https://upload.wikimedia.org/wikipedia/commons/f/fe/Spruce_plywood.JPG)

**Commented [2]:**  
Hardboard  
[http://www.plywoodeurope.com/uploads/5/4/2/3/5423239/5506036\\_orig.jpg](http://www.plywoodeurope.com/uploads/5/4/2/3/5423239/5506036_orig.jpg)

**Commented [3]:**  
Particle board  
<http://seattle.californiaclosetsblog.com/files/2012/10/particle-board.jpg>

**Commented [4]:**  
Medium- density Fibreboard  
<http://nationalplyservices.com/wp-content/uploads/2014/06/Ply-MDF.jpg>

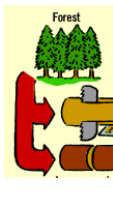
Great title page, however referencing like this is not recommended.

## Identify and describe the manufactured timber product

The product that has been chosen is particleboard. Particleboard, also known as chipboard, is a manufactured timber that consists of wood chips being glued together and compressed under heat. Particleboard usually consists of the two largest surfaces (top/bottom) being coated with a veneer or plastic laminate to give it a solid wood impression while it is much cheaper. The wood can also be bought as solid wood. The bottom sides are plain looking, but the side pieces look as if they are made of wood. The wood chips that are pressed together are visible from the side.

Excellent description well done.  
Green section plagiarised.

## Identify the manufacturing process using picture to create a flowchart, including annotations



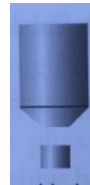
Firstly the trees are cut down from the forest and taken to the sawmill.



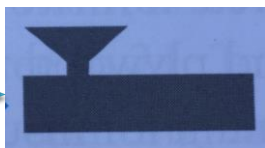
The billets are then flaked.



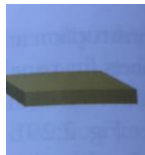
The flakes are then milled to size.



It is then dried.



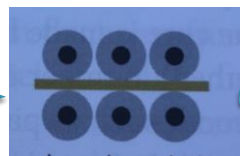
It is then glued.



Next the mattress is formed.



Next the mattress is pressed.



The board is then sanded.



Next the board is then cut to size.



Finally the boards are then transported to the markets.

Well done, some pictures were difficult to understand. Your annotations made up for this.

## Outline the available sizes of your chosen timber in table form

Sheet Size (mm)	Sheet Thickness (mm)	Approx. Weight Per Sheet (kgs)
2400 x 1200	12	29
"	16	33
"	18	37
2700 x 900	18	31

### Particleboard - Standard

Sheet Size (mm)	Sheet Thickness (mm)	Approx. Weight Per Sheet (kgs)
2400 x 1200	12	29
"	16	33
"	18	37
"	25	45
"	33	68
2400 x 1800	16	50
"	18	55
"	33	102
3600 x 610	33	51
3600 x 900	33	77
3600 x 1200	12	44
"	16	50
"	18	55
"	25	67
"	33	
3600 x 1800	16	74
"	18	83
"	25	
"	33	

### Particleboard - HMR

Great work, prices and store location missing

## Identify products which have been manufactured using your chosen timber



product

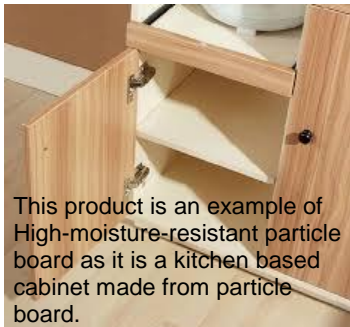


5 pictures in total and annotations explaining the pictures well done.

The product shown is a basic desk made from particle board that excludes the use of drawers.

This product is a slightly more complicated product constructed from particle board that uses drawers and includes different veneer colours.

This product is an example of particle board flooring.



This product is an example of High-moisture-resistant particle board as it is a kitchen based cabinet made from particle board.



This type of product is an example of Interior particle board as it is used as a feature wall in housing construction.

## Reference List

### Internet Sources

[woodworkbasics.com](http://www.woodworkbasics.com), (2010-2016). *Particle Board*. Accessed 11/3/16 from <http://www.woodworkbasics.com/particle-board.html>

Woodsolutions, (2013). *Particleboard also known chipboard*. Accessed 11/3/16 from <http://www.woodsolutions.com.au/Wood-Product-Categories/Particleboard>

Mister Ply&Wood (MPW), (2011). *Particleboard - Plain & HMR*. Accessed 11/3/16 from <http://www.misterplywood.com.au/products/particleboard>

Bloch, M., (2006). *Particle board toxins & the environment*. Accessed 15/3/16 from, <http://www.greenlivingtips.com/articles/particle-board-nasties.html>

### Book Entry

Leadbetter, B. Leadbeatter, M. Keable, J. et al(2011). *Woodworking part one third edition*. Cengage Learning Australia. p 47 - 48

Perfect referencing well done.