



NOT ALL LVL'S ARE THE SAME

Builders often request Multinail engineers to design LVL beams. When asked "What type of LVL?" the most common response is "You know... LVL".

In this situation, we usually spend the next 10 minutes explaining the different properties of the various different grades of LVL. It is very important that builders and fabricators understand the differences between the different brands of LVLs in the marketplace in order to design and supply the correct LVL.

This is similar to supplying a 190x45 solid timber beam that can range from F5 to F27. If you do not specify and supply a particular grade, the resulting engineering designs can be vastly different.

This is the same as supplying and designing an LVL that can range from LVL10 or LVL18.

To provide a rough guide on how the different products relate, the following lists show the currently available solid timber grades and Engineered Wood Products (EWP) with their associated stiffness values. You should check other properties (e.g. bending, compression strengths, etc.) with the supplier as these vary between products.

Grade	MoE (GPa)
F4	6.1
F5	6.9
F7	7.9
F8	9.1
F11	10.5
F14	12
F17	14
F22	16
F27	18.5
MGP10	10
MGP12	12.7
MGP15	15.2

Manufacturer	Product Name	MoE (GPa)	Sizes
Carter Holt Harvey	hyChord	11	Available sizes 70x35, 90x35 and 115x35
Carter Holt Harvey	hySpan+	14	Depth from 90mm to 290mm and with only 35mm and 45mm.
Carter Holt Harvey	hySPAN	13.2	New Name of HySpan Project. Depth from 90mm to 600mm, and Width from 35 to 75mm
Nelson Pine	LVL11	11	Size 90x45 and 140x45 only
Nelson Pine	LVL8	8	Size 90x45 and 140x45 only
Wesbeam	e-beam	13.2	Maximum dimension 450x63mm
Wesbeam	e-beam +	15	Maximum dimension 290x45mm
Wesbeam	e-maximus	14	Available sizes:300x82mm 400x82mm and 450x82mm
Wesbeam	e-stick	10	Available sizes: 90x31mm, 140x30mm 170x30mm and 190x30mm
Tilling	Smart LVL11	11	Size 100x45 and 100x75 Only
Tilling	Smart LVL 14	14	Available in 35mm width and a range of 6 different heights
Tilling	Smart LVL 15	15.5	Depth from 90mm to 525mm and width are 35mm 42mm 58mm and 75mm.
Tilling	Smart LVL 16	16	Available sizes: 90x35mm, 120x35mm 140x35mm and 190x35mm
Tilling	Smart LVL 19	18.5	Depth from 120mm to 360mm and width are 35mm 45mm and 65mm.
Dindas	Dindas LVL	15.5	Depth from 90mm to 400mm and width are 35mm 45mm and 65mm.
Meyer Timber	MT-LVLE9	9	Size 70x35mm Only
Meyer Timber	MT-LVL E12	12	Available sizes: 90x35mm and 90x45mm
Meyer Timber	MT-LVL E15	15	Available in 35mm width and a range of 6 different heights
Meyer Timber	Siegerspan	16.2	Available in 35mm width and a range of 5 different heights

There are more LVLs that have not been listed in the above table, for more info such as available length and price, you will need to contact the supplier and for design please contact Multinail engineering.