LP™ SolidStart™ LSL and LVL Residential Floor Span Tables

NOTES:
1. See page 7 for Usage, Design Assumptions and General Notes.
2. 89/63 refers to 89mm LSL and 63mm LVL

SINGLE SPAN - MAXIMUM ALLOWABLE SPANS (m)

Beam Depth (mm)	Beam Width (mm)	Joist Spacing (mm)									
		19mm Particleboard						22mm Particleboard			
		300		400		450		450		600	
		LSL	LVL	LSL	LVL	LSL	LVL	LSL	LVL	LSL	LVL
Timber Floor 40 kg/m² Dead Load											
90	45	1.9	2.2	1.6	1.8	1.6	1.7	1.6	1.7	1.5	1.7
	89/63	2.6	2.5	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9
130	45	3.2	3.5	2.5	2.8	2.4	2.6	2.4	2.6	2.3	2.5
	89/63	3.9	3.9	3.3	3.2	3.1	3.0	3.1	3.0	2.9	2.9
150	45	3.7	4.0	3.0	3.3	2.8	3.1	2.8	3.1	2.7	2.9
	89/63	4.4	4.3	3.9	3.8	3.6	3.6	3.6	3.6	3.4	3.4
200	45	4.6	4.9	4.2	4.6	3.9	4.4	3.9	4.4	3.7	4.1
	89/63	5.4	5.4	5.1	5.0	5.0	4.9	5.0	4.9	4.6	4.5
240	45	5.3	5.7	4.9	5.3	4.8	5.1	4.8	5.1	4.5	4.8
	89/63	6.1	6.2	5.8	5.8	5.7	5.6	5.7	5.6	5.3	5.2
300	45	6.3	6.7	5.8	6.2	5.7	6.1	5.7	6.1	5.3	5.6
	89/63	7.0	7.2	6.7	6.8	6.6	6.6	6.6	6.6	6.3	6.1
356	45	7.0	7.6	6.6	7.1	6.4	6.9	6.4	6.9	6.0	6.4
	89/63	7.8	8.1	7.5	7.7	7.4	7.5	7.4	7.5	7.0	7.0
Timber Floor 100 kg/m² Dead Load											
90	45	1.9	2.1	1.8	1.9	1.7	1.9	1.7	1.9	1.5	1.7
	89/63	2.4	2.4	2.2	2.2	2.1	2.1	2.1	2.1	1.9	1.9
130	45	2.8	3.1	2.6	2.8	2.5	2.7	2.5	2.7	2.2	2.5
	89/63	3.4	3.4	3.1	3.1	3.0	3.0	3.0	3.0	2.8	2.8
150	45	3.2	3.5	2.9	3.2	2.8	3.1	2.8	3.1	2.6	2.8
	89/63	3.9	3.9	3.6	3.6	3.5	3.5	3.5	3.5	3.2	3.2
200	45	4.3	4.6	3.9	4.3	3.8	4.1	3.8	4.1	3.4	3.8
	89/63	4.9	5.0	4.7	4.7	4.6	4.6	4.6	4.6	4.2	4.2
240	45	4.9	5.3	4.6	5.0	4.5	4.8	4.5	4.8	4.1	4.5
	89/63	5.6	5.7	5.3	5.3	5.2	5.2	5.2	5.2	4.9	4.9
300	45	5.7	6.2	5.4	5.8	5.3	5.7	5.3	5.7	5.0	5.3
	89/63	6.5	6.6	6.2	6.3	6.1	6.1	6.1	6.1	5.7	5.7
356	45	6.5	7.0	6.1	6.6	6.0	6.4	6.0	6.4	5.6	6.0
	89/63	7.3	7.5	7.0	7.1	6.8	6.9	6.8	6.9	6.5	6.5

CONTINUOUS SPAN - MAXIMUM ALLOWABLE SPANS (m)

Beam Depth (mm)	Beam Width (mm)	Joist Spacing (mm)									
		19mm Particleboard						22mm Particleboard			
		300		400		450		450		600	
		LSL	LVL	LSL	LVL	LSL	LVL	LSL	LVL	LSL	LVL
Timber Floor 40 kg/m² Dead Load											
90	45	2.6	2.9	1.9	2.2	1.8	2.0	1.8	2.0	1.8	1.9
	89/63	3.3	3.2	2.6	2.5	2.4	2.3	2.4	2.4	2.3	2.2
130	45	3.8	4.1	3.1	3.4	2.8	3.2	2.8	3.2	2.7	2.9
	89/63	4.6	4.5	4.2	4.0	3.7	3.6	3.7	3.6	3.5	3.4
150	45	4.3	4.6	3.7	4.2	3.4	3.8	3.4	3.8	3.1	3.5
	89/63	5.1	5.0	4.8	4.7	4.5	4.3	4.5	4.3	4.1	4.0
200	45	5.4	5.7	5.0	5.3	4.8	5.2	4.8	5.2	4.4	4.8
	89/63	6.4	6.3	5.9	5.8	5.8	5.7	5.8	5.7	5.4	5.3
240	45	6.2	6.6	5.7	6.1	5.6	6.0	5.6	6.0	5.2	5.5
	89/63	7.3	7.2	6.8	6.7	6.6	6.5	6.6	6.5	6.1	6.0
300	45	7.3	7.8	6.8	7.3	6.6	7.0	6.6	7.0	6.1	6.6
	89/63	8.7	8.5	8.1	7.9	7.8	7.7	7.8	7.7	7.3	7.1
356	45	8.3	9.0	7.7	8.3	7.5	8.1	7.5	8.1	7.0	7.5
	89/63	9.8	9.7	9.2	9.0	8.9	8.7	8.9	8.7	8.3	8.1
Timber Floor 100 kg/m² Dead Load											
90	45	2.6	2.9	2.4	2.6	2.1	2.4	2.1	2.4	1.9	2.1
	89/63	3.3	3.2	3.0	3.0	2.9	2.8	2.9	2.8	2.5	2.5
130	45	3.8	4.1	3.5	3.8	3.4	3.7	3.4	3.7	3.0	3.4
	89/63	4.6	4.5	4.3	4.2	4.1	4.1	4.1	4.1	3.8	3.8
150	45	4.3	4.6	4.0	4.3	3.9	4.2	3.9	4.2	3.5	3.9
	89/63	5.1	5.0	4.8	4.7	4.6	4.5	4.6	4.5	4.3	4.2
200	45	5.4	5.7	5.0	5.3	4.8	5.2	4.8	5.2	4.5	4.8
	89/63	6.2	6.3	5.9	5.8	5.7	5.7	5.7	5.7	5.4	5.3
240	45	6.2	6.6	5.7	6.1	5.6	6.0	5.6	6.0	5.2	5.5
	89/63	7.1	7.1	6.7	6.7	6.5	6.5	6.5	6.5	6.1	6.0
300	45	7.2	7.8	6.8	7.3	6.6	7.0	6.6	7.0	6.1	6.6
	89/63	8.2	8.4	7.8	7.9	7.6	7.7	7.6	7.7	7.2	7.1
356	45	8.2	8.8	7.7	8.3	7.5	8.0	7.5	8.0	7.0	7.5
	89/63	9.2	9.4	8.8	8.9	8.6	8.7	8.6	8.7	8.1	8.1