

For simply supported Apollo 1.5m SINGLE X-BEAM with a compression chord restraint at 1m intervals



Allowable Bending Moment	255 kNm
Allowable Shear	60 kN

Allowable loads for load distributions

Type of Load		Clear span (m)										
		10	15	20	25	30	35	40	45	50	55	60
Uniformly Distributed load	kN/m	<i>12.0</i>	<i>8.0</i>	<i>5.1</i>	<i>3.3</i>	<i>2.3</i>	<i>1.7</i>	<i>1.3</i>	<i>1.0</i>	<i>0.8</i>	<i>0.7</i>	<i>0.6</i>
Total UDL	kN	<i>120.0</i>	<i>120.0</i>	<i>102.0</i>	<i>81.6</i>	<i>68.0</i>	<i>58.3</i>	<i>51.0</i>	<i>45.3</i>	<i>40.8</i>	<i>37.1</i>	<i>34.0</i>
Single point load (mid Point)	kN	102.0	68.0	51.0	40.8	34.0	29.1	25.5	22.7	20.4	18.5	17.0
Two point loads (third points)	Each kN	60.0	51.0	38.3	30.6	25.5	21.9	19.1	17.0	15.3	13.9	12.8
Three point loads ( quarter points)	Each kN	40.0	34.0	25.5	20.4	17.0	14.6	12.8	11.3	10.2	9.3	8.5

Notes

1. Above allowable loads may be increased by 1.11 for **wind loading only**
2. This table is provided as a guide only and assume all loads are applied at restrained nodes. All scaffolds and structures should be checked by a qualified structural engineer.
3. Maximum capacity of a point load mid way between nodes is 45kN but overall buckling of the top chord should be checked if loads are placed other than at restrained loads.
4. Loads indicated in italics and shaded are limited by shear.
5. Analysis is for a single 1.5m X-BEAM only