



# Alternative Post & Beam Tables.



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A modern, multi-story building featuring extensive use of structural laminated timber. The architecture includes large glass windows, a prominent balcony with a glass railing, and a series of thick, angled timber columns that support the upper levels. The building's design is characterized by clean lines and a natural wood aesthetic. A semi-transparent blue geometric graphic is overlaid on the right side of the image. The text 'Structural laminated timber products' is written in a bold, white, sans-serif font, rotated diagonally across the lower portion of the building.

**Structural  
laminated  
timber  
products**



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# Design Features Statement

04

## 1 Introduction

This submission presents comparative tables for Techlam GL8, GL10 and GL12 grade glue-laminated beam section sizes.

The Techlam beam sizes given have an equivalent or greater short-term stiffness than common engineered timber beams made by other manufacturers.



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The strength of beams has not been considered in the tables. The information presented is for guidance only and section sizes must be verified using appropriate load/span tables or by independent calculation.

## 2 Structural Analysis

### 2.1 Reference documents:

Structural analysis/design conforms to the following standards:

1. Standards & Codes	
NZS 3603:1993 [2]	New Zealand Standard: Timber Structures.
AS/NZS1328:1998	Glued Laminated Structural Timber

### 2.2 Techlam beam properties:

GL8, GL10 and GL12 grade glue-laminated timber is considered in accordance with AS/NZS1328:1998. The following section sizes are provided:

2. Beam Section Sizes	
Beam Width (mm)	Beam Depths (mm)
42	135, 140, 180, 190, 225, 240, 270, 290, 315, 360
65	135, 140, 180, 190, 225, 240, 270, 290, 315, 360, 405, 450
88	135, 140, 180, 190, 225, 240, 270, 290, 315, 360, 405, 450

### 2.3 Equivalent Stiffness Value

All comparable Techlam beam sizes have been selected so that their short-term stiffness (EI) is greater than or equal to the short-term stiffness (EI) of the beam specified.

Techlam GL8, GL10 and GL12 beams can be substituted for nominated GL8, GL10 and GL12 respectively provided that the Techlam member has a width and depth that is equal to or greater than that specified, and provided that all other performance requirements and pre-cambers are maintained.

For example, a 190x42 GL8 beam specified for supply by another manufacturer can be replaced by a 190x42GL8 Techlam beam with the same performance and durability specification.

## 3 Material requirements

Glue laminated timber is to be grade GL8, GL10 or GL12 New Zealand Radiata Pine as specified in accordance with AS/NZS1328:1998 Glued Laminated Structural Timber.

Timber is to be kiln dried to a moisture content of not greater than 15% at the time of lamination and installation.

All timber treatment is to comply with NZS 3640:2003 and AS/NZS1604.5:2002.

For beams spanning over 3m, a mid-span upwards pre-camber equal to the span length divided by 500 is recommended to reduce long-term beam sag.

All timber shall be separated from concrete or external timber (such as bearers) using a damp proof membrane.

## 4 Comparative Tables

Comparative tables for Techlam Beams and Techlam Posts are given within the following pages.

## 5 Disclaimer

Whilst every care has been taken to ensure that the comparative tables are accurate, the authors/mlb Consulting Engineers take no responsibility for any errors or omissions or for any specifications or work based on its contents. Furthermore, the designer must satisfy themselves that each beam satisfies the strength and deflection limits. Refer to mlb Consulting Engineers for further information regarding the design assumptions associated with these tables.





MODULUS OF ELASTICITY, E: 9.5 GPa

<b>SG8</b>	<b>Techlam Alternatives</b>								
<b>Size (mm)</b>	<b>42mm (wide)</b>			<b>65mm (wide)</b>			<b>88mm (wide)</b>		
<b>Product</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>
140 x 45	180 x 42	135 x 42	135 x 42	135 x 65	135 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 45	225 x 42	190 x 42	180 x 42	180 x 65	180 x 65	180 x 65	180 x 88	180 x 88	140 x 88
240 x 45	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	225 x 88	180 x 88	180 x 88
290 x 45	315 x 42	290 x 42	270 x 42	270 x 65	240 x 65	240 x 65	240 x 88	225 x 88	225 x 88
140 x 70	180 x 42	180 x 42	180 x 42	180 x 65	135 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 70	240 x 42	225 x 42	225 x 42	225 x 65	190 x 65	180 x 65	180 x 88	180 x 88	180 x 88
240 x 70	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	225 x 88	225 x 88	225 x 88
290 x 70	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
140 x 90	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	180 x 88	135 x 88	135 x 88
190 x 90	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	225 x 88	180 x 88	180 x 88
240 x 90	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	270 x 88	225 x 88	225 x 88
290 x 90	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	315 x 88	290 x 88	270 x 88

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Techlam alternative sizes provided in these tables consider short-term stiffness (EI) but not strength. These tables are for guidance only and section sizes **should be verified**.

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MODULUS OF ELASTICITY, E: 16 GPa

hyONE	Techlam Alternatives					
Size (mm)	65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12
240 x 90	360 x 65	315 x 65	315 x 65	315 x 88	290 x 88	290 x 88
300 x 90	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
360 x 90	N/A	N/A	450 x 65	N/A	450 x 88	405 x 88
400 x 90	N/A	N/A	N/A	N/A	N/A	450 x 88

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# Hyne 17c

## Techlam Alternatives

MODULUS OF ELASTICITY, E: 16.7 GPa

Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
130 x 65	225 x 42	190 x 42	180 x 42	180 x 65	180 x 65	180 x 65	180 x 88	140 x 88	140 x 88
165 x 65	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	225 x 88	180 x 88	180 x 88
195 x 65	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	240 x 88	225 x 88	225 x 88
230 x 65	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
245 x 65	N/A	360 x 42	360 x 42	315 x 65	315 x 65	290 x 65	290 x 88	270 x 88	270 x 88
260 x 65	N/A	360 x 42	360 x 42	360 x 65	315 x 65	315 x 65	315 x 88	290 x 88	270 x 88
295 x 65	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	360 x 88	315 x 88
330 x 65	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
360 x 65	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
395 x 65	N/A	N/A	N/A	N/A	N/A	450 x 65	N/A	450 x 88	405 x 88
425 x 65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 x 88	N/A
525 x 65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
295 x 85	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
330 x 85	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
360 x 85	N/A	N/A	N/A	N/A	N/A	450 x 65	N/A	450 x 88	405 x 88
425 x 85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460 x 85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
525 x 85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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hyJOIST	Techlam Alternatives								
	Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)	
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
HJ200 45	225 x 42	225 x 42	225 x 42	190 x 65	190 x 65	180 x 65	180 x 88	180 x 88	180 x 88
HJ240 63	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	225 x 88	225 x 88	225 x 88
HJ240 90	360 x 42	315 x 42	290 x 42	290 x 65	270 x 65	270 x 65	270 x 88	240 x 88	225 x 88
HJ300 63	360 x 42	315 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
HJ300 90	N/A	360 x 42	360 x 42	360 x 65	315 x 65	315 x 65	315 x 88	290 x 88	270 x 88
HJ360 63	N/A	360 x 42	360 x 42	360 x 65	315 x 65	315 x 65	315 x 88	290 x 88	290 x 88
HJ360 90	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	360 x 88	315 x 88
HJ400 90	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88

hySPAN	Techlam Alternatives								
	MODULUS OF ELASTICITY, E: 13.2 GPa								
Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
150 x 45	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	180 x 88	135 x 88	135 x 88
170 x 45	225 x 42	225 x 42	190 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
200 x 45	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	190 x 88	190 x 88	180 x 88
240 x 45	N/A	290 x 42	270 x 42	270 x 65	240 x 65	240 x 65	240 x 88	225 x 88	225 x 88
300 x 45	N/A	360 x 42	360 x 42	315 x 65	315 x 65	290 x 65	290 x 88	290 x 88	270 x 88
360 x 45	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	360 x 88	315 x 88
400 x 45	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
150 x 63	225 x 42	190 x 42	190 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
170 x 63	240 x 42	225 x 42	225 x 42	225 x 65	190 x 65	190 x 65	190 x 88	180 x 88	180 x 88
200 x 63	290 x 42	270 x 42	240 x 42	240 x 65	225 x 65	225 x 65	225 x 88	225 x 88	190 x 88
240 x 63	360 x 42	315 x 42	290 x 42	290 x 65	270 x 65	270 x 65	270 x 88	240 x 88	225 x 88
300 x 63	N/A	N/A	360 x 42	360 x 65	360 x 65	315 x 65	360 x 88	315 x 88	290 x 88
360 x 63	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
400 x 63	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
150 x 90	240 x 42	225 x 42	225 x 42	225 x 65	190 x 65	190 x 65	190 x 88	180 x 88	180 x 88
170 x 90	270 x 42	270 x 42	240 x 42	240 x 65	225 x 65	225 x 65	225 x 88	190 x 88	190 x 88
200 x 90	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	240 x 88	240 x 88	225 x 88
240 x 90	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	290 x 88	270 x 88	270 x 88
300 x 90	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	360 x 88
360 x 90	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
400 x 90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 x 88	450 x 88

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# LVL 11

## Techlam Alternatives

Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
140 x 45	180 x 42	180 x 42	180 x 42	140 x 65	140 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 45	225 x 42	225 x 42	225 x 42	190 x 65	190 x 65	180 x 65	180 x 88	180 x 88	180 x 88
200 x 45	240 x 42	225 x 42	225 x 42	225 x 65	190 x 65	180 x 65	180 x 88	180 x 88	180 x 88
240 x 45	290 x 42	270 x 42	270 x 42	240 x 65	240 x 65	225 x 65	225 x 88	225 x 88	190 x 88
300 x 45	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
360 x 45	N/A	N/A	N/A	360 x 65	360 x 65	315 x 65	360 x 88	315 x 88	290 x 88
400 x 45	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	360 x 88
140 x 63	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	140 x 88	135 x 88	135 x 88
190 x 63	270 x 42	225 x 42	225 x 42	225 x 65	225 x 65	190 x 65	190 x 88	190 x 88	180 x 88
200 x 63	270 x 42	240 x 42	240 x 42	225 x 65	225 x 65	225 x 65	225 x 88	190 x 88	190 x 88
240 x 63	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	240 x 88	225 x 88	225 x 88
300 x 63	N/A	360 x 42	360 x 42	360 x 65	315 x 65	315 x 65	315 x 88	290 x 88	270 x 88
360 x 63	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	360 x 88
400 x 63	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	405 x 88	405 x 88	360 x 88
140 x 90	225 x 42	190 x 42	190 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	140 x 88
190 x 90	290 x 42	270 x 42	270 x 42	240 x 65	225 x 65	225 x 65	225 x 88	225 x 88	190 x 88
200 x 90	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	225 x 88	225 x 88	225 x 88
240 x 90	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
300 x 90	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	315 x 88	315 x 88
360 x 90	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	405 x 88	405 x 88	360 x 88
400 x 90	N/A	N/A	N/A	N/A	N/A	450 x 65	450 x 88	450 x 88	405 x 88

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GL13	Techlam Alternatives								
	MODULUS OF ELASTICITY, E: 13.3 GPa								
Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
140 x 42	180 x 42	180 x 42	180 x 42	180 x 65	140 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 42	240 x 42	225 x 42	225 x 42	225 x 65	190 x 65	180 x 65	180 x 88	180 x 88	180 x 88
240 x 42	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	225 x 88	225 x 88	225 x 88
290 x 42	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	270 x 88	270 x 88	240 x 88
315 x 42	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	315 x 88	290 x 88	270 x 88
360 x 42	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	315 x 88	315 x 88
405 x 42	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
140 x 63	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	180 x 65	180 x 88	140 x 88	140 x 88
190 x 63	270 x 42	240 x 42	240 x 42	225 x 65	225 x 65	225 x 65	225 x 88	190 x 88	190 x 88
240 x 63	360 x 42	315 x 42	290 x 42	290 x 65	270 x 65	270 x 65	270 x 88	240 x 88	240 x 88
290 x 63	N/A	N/A	360 x 42	360 x 65	360 x 65	315 x 65	315 x 88	290 x 88	290 x 88
315 x 63	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	315 x 88	315 x 88
360 x 63	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
405 x 63	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
140 x 90	225 x 42	225 x 42	190 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
190 x 90	315 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	240 x 88	225 x 88	225 x 88
240 x 90	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	290 x 88	270 x 88	270 x 88
290 x 90	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	360 x 88	315 x 88
315 x 90	N/A	N/A	N/A	450 x 65	405 x 65	405 x 65	405 x 88	360 x 88	360 x 88
360 x 90	N/A	N/A	N/A	N/A	450 x 65	450 x 65	450 x 88	405 x 88	405 x 88
405 x 90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 x 88	450 x 88

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# PROLAM GL8

## Techlam Alternatives

Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)		
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
140 x 42	140 x 42	135 x 42	135 x 42	135 x 65	135 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 42	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	180 x 65	180 x 88	140 x 88	135 x 88
240 x 42	240 x 42	225 x 42	225 x 42	225 x 65	225 x 65	190 x 65	190 x 88	180 x 88	180 x 88
290 x 42	290 x 42	270 x 42	270 x 42	270 x 65	240 x 65	225 x 65	240 x 88	225 x 88	225 x 88
315 x 42	315 x 42	315 x 42	290 x 42	290 x 65	270 x 65	270 x 65	270 x 88	240 x 88	225 x 88
140 x 63	180 x 42	180 x 42	180 x 42	140 x 65	140 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 63	225 x 42	225 x 42	225 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
240 x 63	290 x 42	270 x 42	270 x 42	240 x 65	225 x 65	225 x 65	225 x 88	225 x 88	225 x 88
290 x 63	360 x 42	315 x 42	315 x 42	290 x 65	270 x 65	270 x 65	270 x 88	270 x 88	240 x 88
315 x 63	N/A	360 x 42	360 x 42	315 x 65	290 x 65	290 x 65	290 x 88	270 x 88	270 x 88
360 x 63	N/A	N/A	N/A	360 x 65	360 x 65	360 x 65	360 x 88	315 x 88	290 x 88
405 x 63	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	405 x 88	360 x 88	360 x 88
140 x 88	180 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	140 x 88	135 x 88	135 x 88
190 x 88	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	190 x 88	180 x 88	180 x 88
240 x 88	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	240 x 88	225 x 88	225 x 88
290 x 88	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	290 x 88	270 x 88	270 x 88
315 x 88	N/A	N/A	360 x 42	360 x 65	360 x 65	315 x 65	315 x 88	315 x 88	290 x 88
360 x 88	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	360 x 88
405 x 88	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	405 x 88	405 x 88	60 x 88

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PROLAM GL12	Techlam Alternatives								
	Size (mm)	42mm (wide)			65mm (wide)			88mm (wide)	
Product	GL8	GL10	GL12	GL8	GL10	GL12	GL8	GL10	GL12
140 x 42	180 x 42	180 x 42	140 x 42	140 x 65	135 x 65	135 x 65	135 x 88	135 x 88	135 x 88
190 x 42	225 x 42	225 x 42	190 x 42	190 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
240 x 42	290 x 42	270 x 42	240 x 42	240 x 65	225 x 65	225 x 65	225 x 88	225 x 88	190 x 88
290 x 42	360 x 42	315 x 42	290 x 42	290 x 65	270 x 65	270 x 65	270 x 88	240 x 88	240 x 88
315 x 42	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	290 x 65	290 x 88	270 x 88	270 x 88
140 x 63	190 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	180 x 88	140 x 88	135 x 88
190 x 63	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	225 x 88	180 x 88	180 x 88
240 x 63	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	270 x 88	225 x 88	225 x 88
290 x 63	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	315 x 88	290 x 88	270 x 88
315 x 63	N/A	N/A	N/A	360 x 65	360 x 65	315 x 65	360 x 88	315 x 88	290 x 88
360 x 63	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	405 x 88	360 x 88	360 x 88
405 x 63	N/A	N/A	N/A	N/A	450 x 65	405 x 65	450 x 88	405 x 88	405 x 88
140 x 88	225 x 42	190 x 42	180 x 42	180 x 65	180 x 65	180 x 65	180 x 88	180 x 88	140 x 88
190 x 88	290 x 42	270 x 42	270 x 42	240 x 65	225 x 65	225 x 65	225 x 88	225 x 88	190 x 88
240 x 88	360 x 42	360 x 42	315 x 42	315 x 65	290 x 65	270 x 65	290 x 88	270 x 88	240 x 88
290 x 88	N/A	N/A	N/A	405 x 65	360 x 65	360 x 65	360 x 88	315 x 88	290 x 88
315 x 88	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	315 x 88
360 x 88	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	450 x 88	405 x 88	360 x 88
405 x 88	N/A	N/A	N/A	N/A	N/A	450 x 65	N/A	450 x 88	405 x 88

Techlam alternative sizes provided in these tables consider short-term stiffness (EI) but not strength. These tables are for guidance only and section sizes **should be verified**.

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<b>PROLAM GL16</b>	<b>Techlam Alternatives</b>								
<b>Size (mm)</b>	<b>42mm (wide)</b>			<b>65mm (wide)</b>			<b>88mm (wide)</b>		
<b>Product</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>	<b>GL8</b>	<b>GL10</b>	<b>GL12</b>
140 x 42	180 x 42	180 x 42	180 x 42	180 x 65	180 x 65	140 x 65	140 x 88	135 x 88	135 x 88
190 x 42	270 x 42	240 x 42	225 x 42	225 x 65	225 x 65	190 x 65	190 x 88	180 x 88	180 x 88
240 x 42	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	240 x 88	225 x 88	225 x 88
290 x 42	N/A	360 x 42	360 x 42	360 x 65	315 x 65	290 x 65	290 x 88	270 x 88	270 x 88
315 x 42	N/A	N/A	360 x 42	360 x 65	360 x 65	315 x 65	315 x 88	315 x 88	290 x 88
140 x 63	225 x 42	190 x 42	190 x 42	180 x 65	180 x 65	180 x 65	180 x 88	180 x 88	180 x 88
190 x 63	290 x 42	270 x 42	270 x 42	270 x 65	270 x 65	225 x 65	225 x 88	225 x 88	225 x 88
240 x 63	360 x 42	360 x 42	315 x 42	315 x 65	315 x 65	270 x 65	290 x 88	270 x 88	270 x 88
290 x 63	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	315 x 88	315 x 88
315 x 63	N/A	N/A	N/A	405 x 65	405 x 65	360 x 65	360 x 88	360 x 88	360 x 88
360 x 63	N/A	N/A	N/A	N/A	450 x 65	405 x 65	450 x 88	405 x 88	405 x 88
405 x 63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 x 88	450 x 88
140 x 88	240 x 42	225 x 42	225 x 42	225 x 65	225 x 65	180 x 65	180 x 88	180 x 88	180 x 88
190 x 88	315 x 42	290 x 42	290 x 42	270 x 65	270 x 65	240 x 65	270 x 88	240 x 88	225 x 88
240 x 88	N/A	N/A	360 x 42	360 x 65	360 x 65	315 x 65	315 x 88	290 x 88	290 x 88
290 x 88	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	405 x 88	360 x 88	360 x 88
315 x 88	N/A	N/A	N/A	450 x 65	450 x 65	405 x 65	405 x 88	405 x 88	360 x 88
360 x 88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 x 88	450 x 88
405 x 88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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