



GRUPO SIERO

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Sweet chestnut

**GLULAM BEAMS**

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## SECTIONS RECOMMENDED FOR SWEET CHESTNUT GLULAM BEAMS\*

Beam mounted, straight bending with a uniformly distributed load.  
Maximum arrow: 1/300 of the load.

### Starting data

#### Sweet chestnut glulam beams

Service Class: 1 Slope: 0%

Span: Distance between articulated points (m)

Q= service overload (kg/ml)

Maximum section – 200x400 m

### Combination of envisaged actions

1,35 x CP

1,35 x CP + 1,5 U

1,35 x CP + 1,5 P

1,35 x CP + 1,5 U (fire protection)

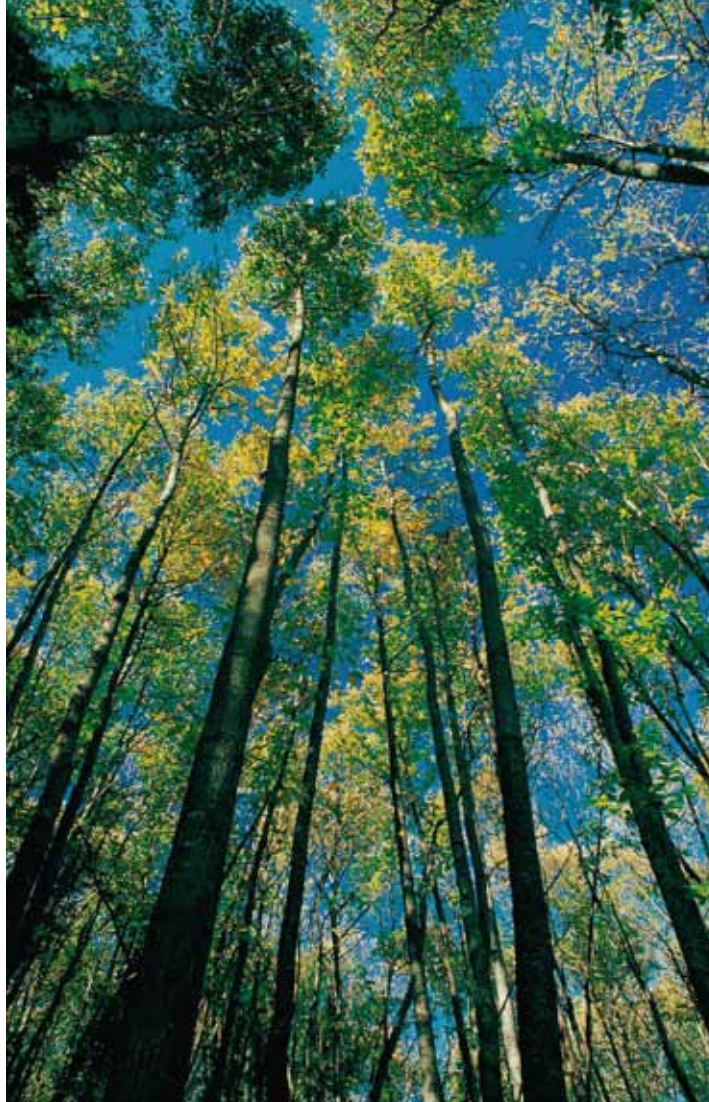
### Arrows limitation

Integrity of elements: L/300

User comfort: L/350

Aesthetic appearance: L/300

\*(Calculations performed as shown in the CTE-DB-SEM, with characteristic values according to the Otto Graf certificate)



Span (m)	0,5	0,75	1	1,25	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6
Q (kg/m)	100	150	200	250	300	400	500	600	700	800	900	1000	1100	1200
Length (m)	Minimum section: b x h (mm <sup>2</sup> )													
2,0	70x100	70x100	70x100	70x120	70x120	80x140	80x140	80x140	80x160	80x160	80x180	100x160	100x180	100x180
2,5	70x120	70x120	80x120	80x140	80x140	80x160	80x180	80x180	80x200	100x180	100x200	100x200	100x220	100x220
3,0	70x140	80x140	80x160	80x160	80x180	80x200	80x200	100x200	100x220	100x220	100x240	100x240	100x260	100x300
3,5	80x140	80x160	80x180	80x200	80x200	100x200	100x220	100x240	100x240	100x260	100x260	100x280	100x300	100x320
4,0	80x160	80x180	80x200	100x200	100x220	100x240	100x260	100x260	100x280	100x300	100x300	100x320	100x340	120x340
4,5	80x180	80x200	100x220	100x220	100x240	100x260	100x280	100x300	100x320	100x340	100x340	100x360	120x340	120x360
5,0	80x200	100x220	100x240	100x240	100x260	100x300	100x320	100x340	100x360	100x380	120x360	120x380	120x380	140x380
5,5	100x200	100x240	100x260	100x280	100x300	100x320	100x340	100x360	120x360	120x380	120x400	140x380	140x400	160x400
6,0	100x220	100x260	100x280	100x300	100x320	100x360	100x380	120x380	120x400	140x400	140x400	160x400	180x400	200x400
6,5	100x240	100x280	100x300	100x320	100x340	120x360	120x380	120x400	140x400	160x400	180x400	200x400		
7,0	100x260	100x300	100x320	100x340	100x380	120x380	140x400	160x400	180x400	200x400				
7,5	100x280	100x320	100x340	100x360	120x380	140x400	160x400	200x400						
8,0	100x300	100x340	120x340	120x380	120x400	160x400	200x400							
8,5	100x320	100x360	120x360	120x400	140x400	200x400								
9,0	100x340	120x360	120x400	140x400	180x400									
9,5	100x360	120x380	140x400	160x400	200x400									
10,0	120x360	120x400	160x400	200x400										
10,5	120x360	140x400	180x400											
11,0	120x380	160x400	200x400											
11,5	140x380	180x400												
12,0	160x380	200x400												
12,5	180x380													
13,0	200x400													

Values in this table are valid as long as all starting data conditions are fulfilled. For other cases, a structural calculation check is necessary.



Los Cuetos s/n Argüelles. 33188 Siero - Asturias (España)

Tel: +34 985 742 012 - Fax: +34 984 742 350

siero@sierolam.com

[www.sierolam.com](http://www.sierolam.com)



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