

BS EN 14080:2013

Production Standard

Strength [MPa]		GL28cs	GL30c
Bending strength	$f_{m,k}$	28	30
Tensile strength	$f_{t,0,k}$	19,5	19,5
	$f_{t,90,k}$	0,5	0,5
Compression strength	$f_{c,0,k}$	24,5	24,5
	$f_{c,90,k}$	2,5	2,5
Shear strength	$f_{v,k}$	3,5	3,5
Rolling shear strength	$f_{r,k}$	1,2	1,2

Stiffness Properties [MPa]		GL28cs	GL30c
Modulus of elasticity	$E_{0,mean}$	12500	13000
	$E_{0,05}$	10400	10800
	$E_{90,mean}$	300	300
	$E_{90,05}$	250	250
Shear strength	G_{mean}	650	650
	G_{05}	540	540
Rolling shear strength	$G_{r,mean}$	65	65
	$G_{r,05}$	65	65

Density [kg/m ³]		GL28cs	GL30c
Density	ρ_k	390	390
	ρ_{mean}	430	430