















Strengthening glulam beams First study - reinforcements						
Adhesives		Situatur 20				
• Sikadur 30		Density	1.77 kg/L (A + B)			
 Cement paste-like 		Shear strength*	15 MPa			
 Dense, less viscous 		E-Modulus*	12,800 MPa			
• Sikadur 330	5	kadur 220				
– Paste-like	De	ensity	1.31 kg/L (A + B)			
– Viscous	Sh	near strength*	10 MPa			
	E-	-Modulus*	3800 MPa			
	COST FP1004 – Enhance mechanical properties of timber, engineered wood products and timber structures					

Strengthening glulam beams with pre-stressed FRP Fourth study: pre-stressing - results							
Beam after releasing the pre-stressing force and removing the temporary posts							
Beam	Failure load with pre- stressing [kN]	Failure load without pre-stressing [kN]	Increase due to strengthening without pre- stressing	Increase due to strengthening with pre-stressing			
Reference Beam 1 Beam 2	27 40 36	27 32 30	- 18% 11%	- 48% 33%			
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