

Patronatstr. 9-13  
71282 Hemmingen

**Test certificate compressive and tensile strength**

**EN 196-1**

Order Number: 431827402\_1

Screed Company: William Lea Ltd  
 Technical adviser: Michael Lea  
 Construction project: Clatterbridge Cancer Care Centre, Liverpool NHS Trust  
 aggregate Supplier : Fine: Coarse 80/20  
 Cement: CEM II/A-L 42,5 N  
 Cement Type: Quinns  
 Cement quantity (kg): 62,5  
 Water quantity (l): 9/10  
 Additive: Xtreme  
 Additive (ml): 400  
 Strength of screed req: Not Specified  
 Date of Prism Sample: 25.09.2018  
 Age of the sample: 28d  
 Notes: Screed mixed in a forced action Screed pump of 250 l gross capacity.

Term	Height	Wide	Length	Tensile Strength		Compressive Strength				
	(mm)	(mm)	(mm)	(kN)	(N/mm <sup>2</sup> )	(kN)	(kN)	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	
1	40	40	160	3,4	8,0	66,3	71,2	41,4	44,5	
2	40	40	160	3,4	8,0	69,4	72,7	43,4	45,4	
3	40	40	160	3,3	7,7	65,3	65,5	40,8	40,9	
average value					7,9					42,8
standard deviation					0,1					2,0
effective span 100,00 mm	nature of load: axial pressure		potentiometric surface: 1600 mm <sup>2</sup>							

place of testing exercised: Hemmingen, 23.10.2018

authorised Person:

3816001	3816002
D-K- 17246-01-02	D-K- 17246-01-02
2016-12	2016-12