

verage ultimate compression and tension strength of some common materials:

Material	Compression <u>Strength</u> - σ -		Tension <u>Strength</u> - σ -	
	<i>psi</i>	<i>MPa</i>	<i>psi</i>	<i>MPa</i>
Bricks, hard	12000	80	400	2.8
Bricks, light	1000	7	40	0.28
Brickwork, common quality	1000	7	50	0.35
Brickwork, best quality	2000	14	300	2.1
Granite	19000	130	700	4.8
Limestone	9000	60	300	2.1
Portland Cement, less than one month old	2000	14	400	2.8
Portland Cement, more than one year old	3000	21	500	3.5
Portland Concrete, 28 days old	5000	35	200	1.4
Portland Concrete, more than one year old	6200	43	400	2.8
Sandstone	9000	60	300	2.1
Slate	14000	95	500	3.5
Trap rock	20000	140	800	5.5

- $1 \text{ MPa} = 10^6 \text{ Pa} = 1 \text{ N/mm}^2 = 145.0 \text{ psi (lbf/in}^2\text{)}$