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TABLE 1 Basic physical and mechanical properties of the specimens

Material	Mark name	Size (mm)	ρ (kg/m ³)	σ_c (MPa)	σ_t (MPa)	E (GPa)	ν
Pure Cement	PC	$\Phi 72 \times 36$	1571.9	18.93	1.84	2.96	0.169
Cement and Sand (1:1)	CS1:1	$\Phi 72 \times 36$	2055.7	40.01	3.98	4.98	0.201
Cement and Sand (2:1)	CS2:1	$\Phi 72 \times 36$	1940.4	30.56	3.25	4.30	0.213
Sandstone	SS	$\Phi 100 \times 50$	2267.2	72.08	7.33	4.60	0.185
Dolomite	DL	$\Phi 100 \times 50$	2964.9	60.29	7.17	7.57	0.364
Granite	GN	$\Phi 100 \times 50$	2553.2	151.09	10.46	17.88	0.194

TABLE 2 Statistics of the AE waveforms.

No.	Mark name	Total waves counts	Exact counts	Train counts	Test counts
1	PC	1364	1300	7020	780
2	CS1:1	4009	1300		
3	CS2:1	1699	1300		
4	SS	6586	1300		
5	DL	17856	1300		
6	GN	57686	1300		