

Mechanical property		Upper and lower unit (marked by A in Fig. 10) (lapilli tuff)	Middle unit (marked by B–D in Fig. 10) (less welded tuff)
Bulk density (ρ)	(kg m ⁻³)	1815	1635
Uniaxial compressive strength (σ_c)	(MPa)	8.02	0.35
Tensile strength (σ_t)	(MPa)	0.83	0.04
Modulus of elasticity (E)	(GPa)	0.97	0.05