

STANDARDS AND TESTING

THE PERFORMANCE AND CHARACTERISTICS OF FIBRE-REINFORCED CONCRETE NEED TO BE TESTED

with methods tailored to suit the specific end application, to make sure it can be used safely in future specifications. These test methods are now fully-standardised internationally through the European Standards (EN), as well as the American Society for Testing and Materials (ASTM).

FIBRE-REINFORCED CONCRETE AND MORTAR – STANDARDS AND TESTING

Test method	Standard	Description
Energy absorption	ASTM C1550	Round panel test
	EN 14488-5	Square panel test
Residual strength	EN 14651	Beam test
Fire resistance	RWS	Max. 1,350°C, 2 hours
	ISO 834	Starts at low temp, but continuously increasing
	HC modified	Max. 1,200°C, 4 hours
Shrinkage cracking	ASTM C 1581-04	Test method for determining restrained shrinkage
Impact resistance	Various local standards	Impact energy tests



Round panel test: ASTM C1550



Square panel test: EN 14488-5



Beam test: EN 14651