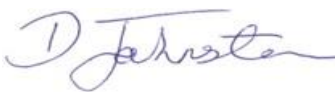


MEMORANDUM OF PERFORMANCE

Manufacturer:	McCue Corporation
Product Reference:	CRASHCORE S20
Product Description:	Single core bollard
Test Standard:	IWA14-1:2013 Impact Test Specification for Vehicle Security Barriers
Test Class:	N1G
Target Speed (Km/h):	32
Target Impact Energy (kJ):	98.8
Target Impact Angle (°)	90
Impact Point:	Target impact point was centre of vehicle to centre of bollard
Test Date:	04/04/2023
Test House Ref:	1228533 / B0015



Performance Rating:	IWA14-1:2013 Bollard V/2500[N1G]/32/90:0.9
Vehicle Penetration (m):	0.9

Approved By:	Dave Johnstone	
Date: 05/04/2023	Consultant – HSPI Test Centre	