

OVERVIEW

Nine case studies were compiled by MouchelParkman and Tony Gee and Partners in order to evaluate the qualification and classification schemes (see Table 1). These case studies are contained in this report with the 'steps' linked to the Design Activity flowchart contained in Technical Reports 6 and 7. Further commentary is provided in Technical Report 10.

No.	Location	Reinforcement type	Substrate	Classification ID.
1	St. Thomas' Hospital	CFRP Plate	Concrete	PBU/1/C/S
2	Trenchard MSCP	CFRP NSM	Concrete	NSM/1/C/S
3	Maunder's Road Bridge	CFRP Plate	Cast Iron	PBS/1/CI/S
4	Ealing Road Bridge	CFRP Resin Wrap CFRP Plate	Concrete	RW/1/C/E PBU/1/C/E
5	St. Michael's Road Underbridge	CFRP Plate	Concrete	PBU/1/CI/S
6	New Moss Road Overbridge	CFRP Plate	Cast Iron	PBU/1/CI/S
7	Brockley Slip Roads	CFRP Resin Wrap CFRP Plate	Concrete	RW/1/C/S PBU/1/C/S
8	QAFCO Prill Tower	CFRP Plate	Concrete	PBU/1/C/S
9	Hammersmith Road Bridge	CFRP Plate	Cast Iron	PBU/1/CI/S

Table 1. Case Studies

No.	Type of Structure	Substrate	Reinforcement	Reinforcement Type	Reinforcement Thickness	Classification ID.
1	Floor slab	Concrete	CFRP	Plate	Thin	PBU/1/C/S
2	Floor slab	Concrete	CFRP	NSM bar	Thick	NSM/1/C/S
4	Bridge	Concrete	CFRP	Resin Wrap	Thick	RW/1/C/E
			CFRP	Plate	Thin	PBU/1/C/E
7	Slip Road	Concrete	CFRP	Resin Wrap	Thick	RW/1/C/S
			CFRP	Plate	Thin	PBU/1/C/S
8	Tower	Concrete	CFRP	Plate	Thin	PBU/1/C/S
3	Bridge	Cast Iron	CFRP	Plate	Thick	PBS/1/CI/S
5	Underbridge	Concrete	CFRP	Plate	Thick	PBU/1/CI/S
6	Overbridge	Cast Iron	CFRP	Plate	Thick	PBU/1/CI/S
9	Bridge	Cast Iron	CFRP	Plate	Thick	PBU/1/CI/S