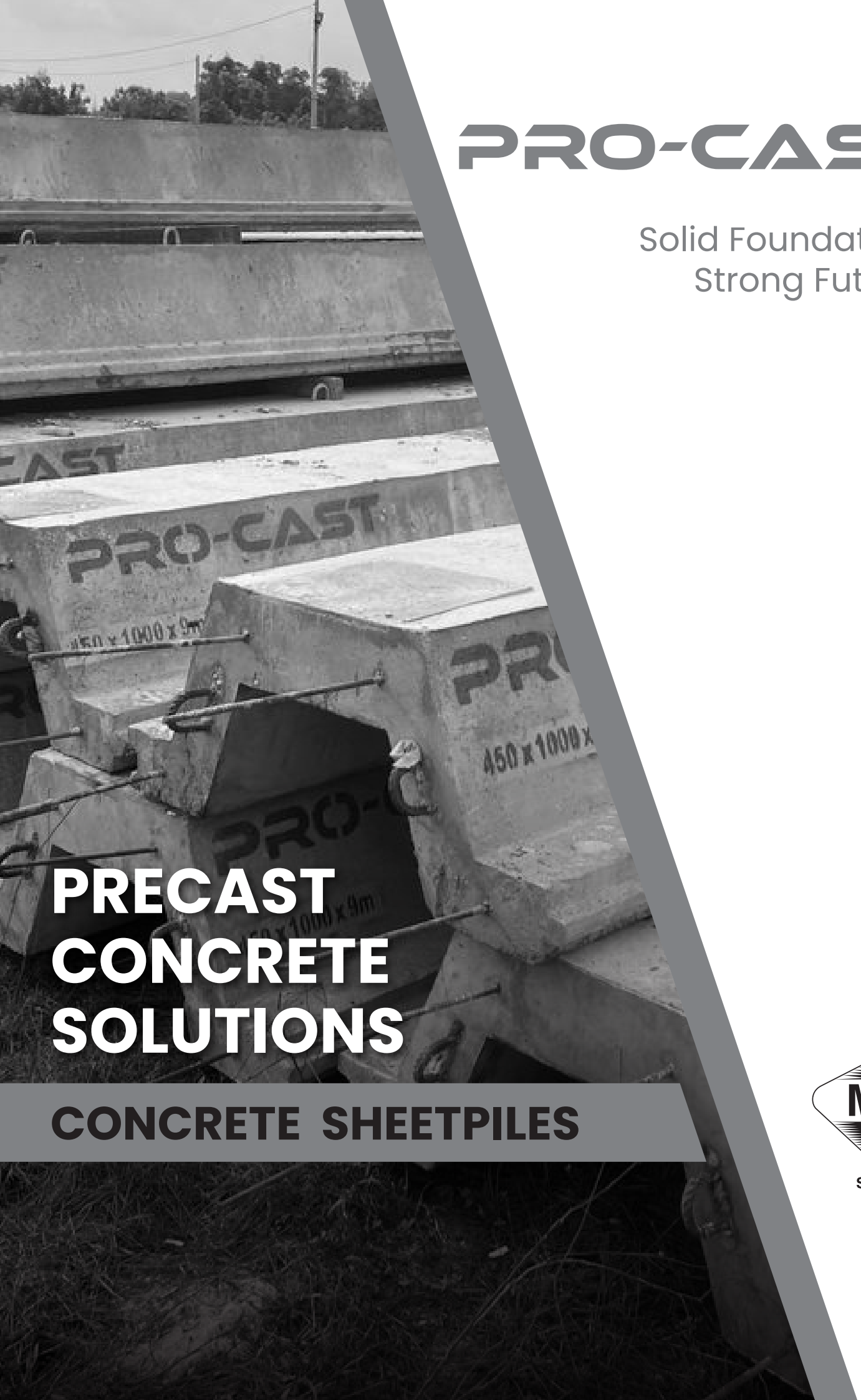


PRO-CAST

Solid Foundations,
Strong Futures.

PRECAST CONCRETE SOLUTIONS

CONCRETE SHEETPILES

MS
SIRIM



INTRODUCTION

Welcome to Pro-Cast, your trusted partner in delivering top-notch precast concrete solutions tailored to meet your specific needs. As a leading provider in the industry, Pro-Cast prides itself on its commitment to excellence, innovation, and customer satisfaction. With a focus on quality, reliability, and versatility, we stand ready to exceed your expectations and contribute to the success of your projects.

Precast concrete sheet pile walls offer faster and more economical retaining solutions compared to conventional methods like RC, diaphragm, contiguous bored pile, secant pile, and steel sheet pile walls. With distinct technical advantages, they're popular for both temporary and permanent structures.

ADVANTAGES OF PRECAST CONCRETE SHEETPILES

- Long Serviceable Life
- Less Corrosion Worries
- Maintenance Free
- Flexible Sizes & Lengths
- High Performance
- Aesthetic Appearence

APPLICATION

Temporary Structure :

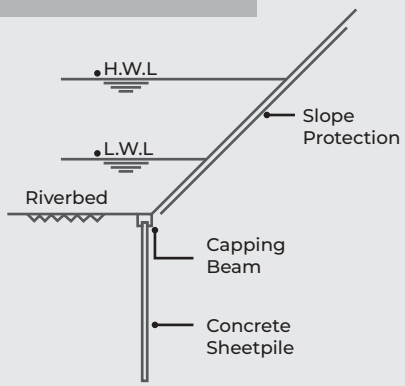
Utilized for shoring during construction and basement excavation.

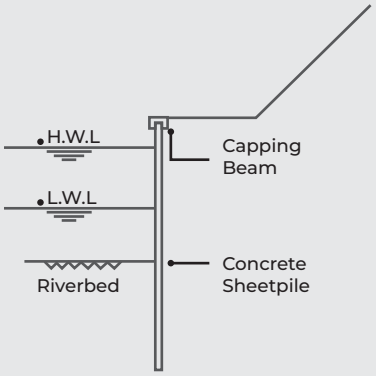
Permanent Structure :

Used for various applications including river embankments, wharf/quay walls, sea walls, revetments, foot/scour protection, cut-off walls, bund construction, road/railway embankments, sewerage/drainage trenches, storage ponds, and more.

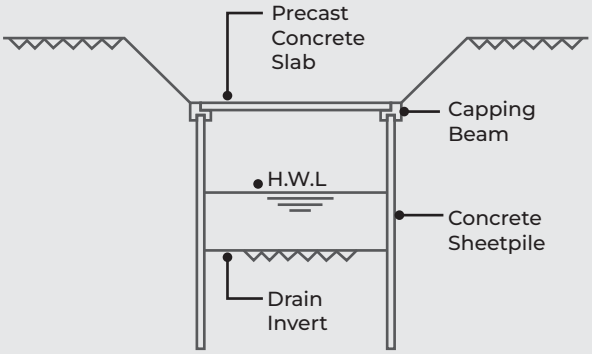


RIVER EMBANKMENT





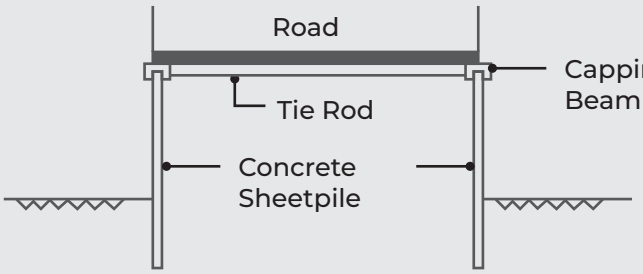
DRAIN / CULVERT



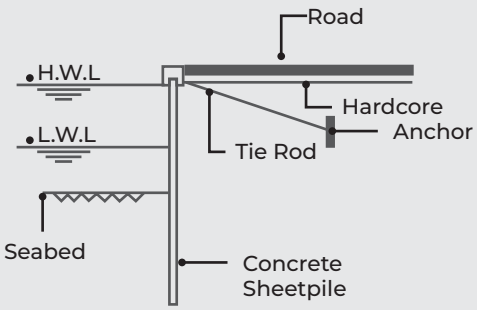


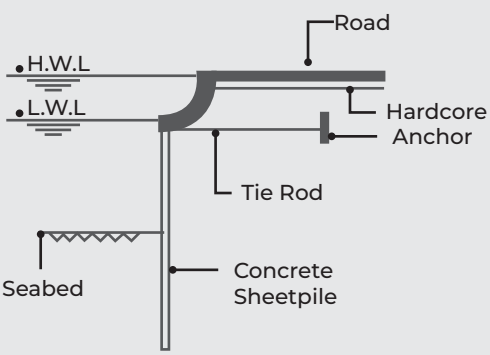


ROAD / RAILWAY EMBANKMENT



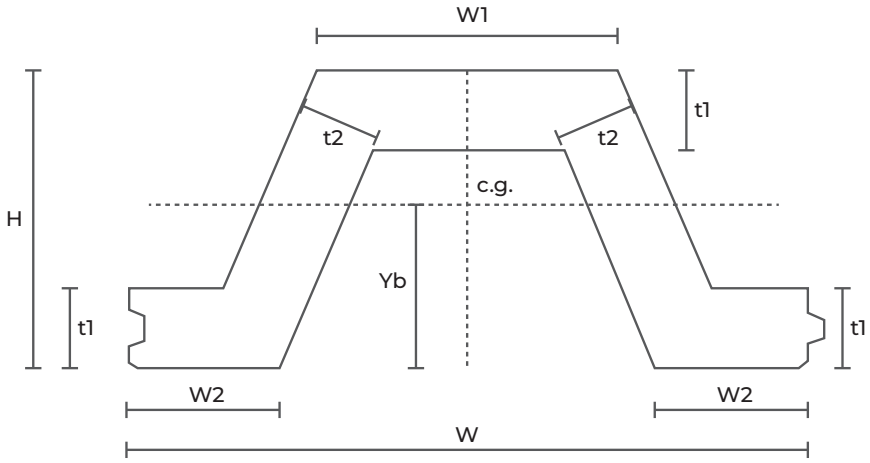
PORT STRUCTURE







CORRUGATED SHAPE PROFILE : TYPES & PROPERTIES



Type & Sizes :

H (mm)	W (mm)	W1 (mm)	W2 (mm)	t1 (mm)	t2 (mm)	Length (mm)
450	1000	485	220	120	120	6m, 7.5m, 9m, 12m
500	1200	500	250	150	135	6m, 7.5m, 9m, 12m, 15m
650	1200	600	265	165	100	9m, 12m, 15m, 18m

			Neutral Axis			Section Modulus	
H (mm)	Area (cm2)	Perimeter	Yt (cm)	Yb (cm)	Moment Inertia I xx (cm2)	Zt (cm3)	Zt (cm3)
450	175,522	3161	220	230	3.58E+09	1.63E+07	1.56E+07
500	232,980	3563	250	250	5.61E+09	2.25E+07	2.25E+07
650	262,972	4287	316	334	1.24E+10	3.90E+07	3.70E+07

Design Specification

Structure Design Code	BS8110 : Part1 : 1997
Cement Design Code	MS522
Steel Design Code	MS146
Aggregate Design Code	MS29
Admixture Design Code	MS922

Details	Type	Working Moment Capacity (kNm/m)	Ultimate Moment Capacity (kNm/m)
450 x 1000	A	100	150
	B	120	180
	C	150	225
500 x 1200	A	130	190
	B	155	230
	C	190	280
650 x 1200	A	135	200
	B	170	250
	C	200	300

PRO-CAST

Professional Precast Sdn Bhd

+6 016-330 8365 03-2276 5255

www.pro-cast.co lvanseah@pro-cast.co

12-3A, Level 12, Menara MBMR.
No 1, Jalan Syed Putra, 58000 Kuala Lumpur.