



Building the Foundation for the Future



MS ISO 9001:2015 REG NO. AR1945



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Quality

- Our Culture

We at **EC Precast Sdn Bhd** believe the essence of a good business is giving value to all our stakeholders, including our customers. Such values are measured by our focus on quality. Total quality management is the norm in **EC Precast Sdn Bhd** and this is backed by our products ISO certifications.

Renowned for technical expertise and service excellence, **EC Precast Sdn Bhd** is an ISO 9001:2015 certified company with total quality management as its norm. Products we produced under **EC Piles+** are premium quality, reinforced concrete piles manufactured to the highest degree of quality standards and supported by ISO Certifications. With quality imbedded as culture, **EC Piles+** are the perfect building blocks for the future of any construction.

“**EC Piles+** is today the preferred choice for the infrastructure and construction industry.”

Product & Application

REINFORCED CONCRETE COMPOSITE PILES

EC Piles+ are precast reinforced concrete composite piles designed as an enhanced product conforming to BS 8004-1986 and MSEN 206-2016 standards. Durable, reliable and simple to install, **EC Piles+** come in various size ranging from 125mm x 125mm to 450mm x 450mm measurements with more cost effective values . **EC Piles+** are suitable for building construction works and all civil engineering projects.

PRODUCT SPECIFICATIONS

DIMENSION		Size (mm)	125 x 125	150 x 150	175 x 175	200 x 200	230 x 230	250 x 250	280 x 280	300 x 300	350 x 350	380 x 380	400 x 400	450 x 450
		Length (m)	6,3	6,3	6,3	9,6,3	9,6,3	12,9,6,3	12,9,6,3	12,9,6,3	12,9,6,3	12,9,6,3	12,9,6,3	12,9,6,3
		A (mm)	128	153	178	204	234	254	284	305	355	385	405	455
		B (mm)	122	147	172	196	226	246	276	295	345	375	395	445
		C (mm)	125	150	175	200	230	250	280	300	350	380	400	450
	Main reinforcement bar nos. x dia.(mm)		4xY9	4xY9	4xY9	4 x T10	4 x T12	8 x T10	4 x T16	4 x T16	4 x T20	4 x T20	4 x T20	4 x T25
	Link Diameter (mm)		4.5	4.5	4.5	4.5	5.5	5.5	5.5	5.5	6	6	6	6
	Plate Thickness (mm)		4.5	4.5	6	6	6	8	8	8	9	9	9	12
	Concrete cover (mm)		30	30	30	30	30	40	40	40	40	40	40	40
AXIAL LOAD CAPACITY														
	Max safe structural working load (tonnes)	Concrete grade 50	26	35	46	61	81	97	122	140	191	222	244	313
	Recommended working load (tonnes)		21	28	37	48	65	80	100	115	160	185	205	275

Technical Calculations

Capacity of EC Piles⁺ in accordance to standards specified. Safe working load = $0.275f_{cu} \cdot A_c + f_{sc} \cdot A_s$ where,

f_{cu} = characteristic strength of concrete at 28 days (50N/mm²)

A_c = area of concrete

A_s = area of main reinforcement

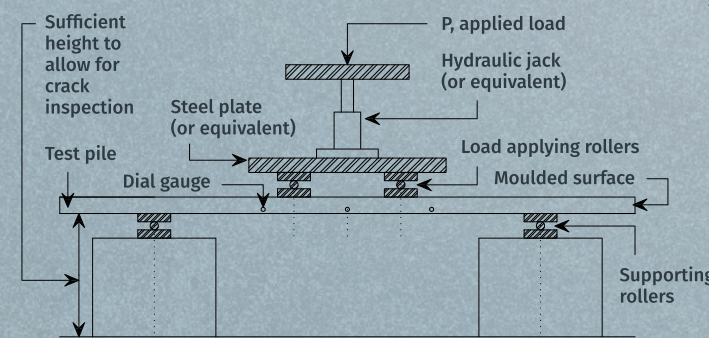
f_{sc} = 175N/ mm² for high yield steel

Material Specifications

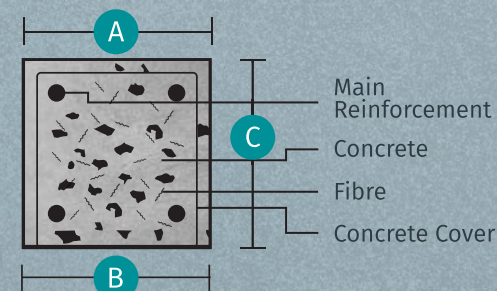
Constituent Materials

Cement	MS 522 / BS EN 197-1
Steel Reinforcement	BS 4449 : 1997 / MS 146 : 2014
Aggregates	BS 882 / MS 29
Admixture	BS 5075 / MS 922 Super Plasticizer
Cold Drawn Wire	BS 4482 / MS 144
Fibre	EN 14651, EN 14889-1&2 ASTM C1116
Mild Steel Plate	BS EN 10137-1 End plate (Grade 43A)

BENDING TEST : MS1314 Compliance

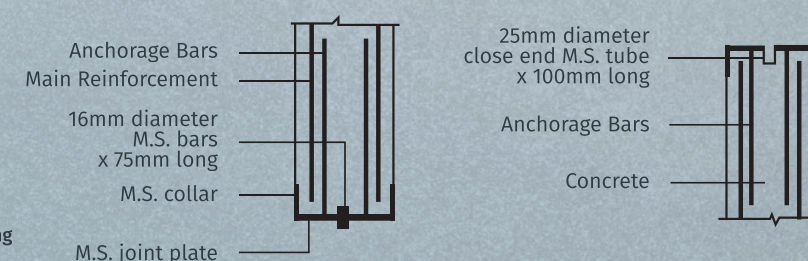


Cross Section

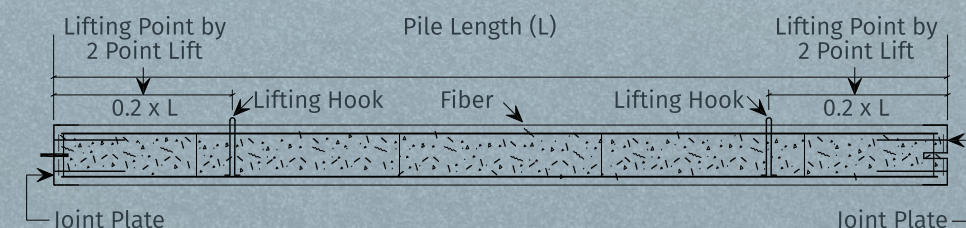


STANDARD PILE JOINT

All joining by means of full weld all round



Typical Extension Pile



Note : The working load recommended base on theoretical structural capacity of piles but subject to soil conditions & other engineering considerations. Technical information is subject to change without prior notice due to product development.



Company

Background

With more than 20 years experiences in piling and foundation works on a fully equipped 15acre casting yard in Alor Gajah, Malacca, **EC Precast Sdn Bhd** is a complete and impressive setup facility plant that manufactures high strength reinforced concrete piles in Malaysia's construction industry under the brand **EC Piles⁺**.

As the country moves toward becoming a developed nation, **EC Precast Sdn Bhd** and its marketing arm **EC Piles Sdn Bhd** are committed to serve clients better by participating more in upcoming infrastructure developments in both private and government sectors.

EC Precast Sdn Bhd promises to always strive to produce top quality and high value products through **EC Piles⁺** to ensure that the company & its services are continuously contributing to building a strong foundation for the future.

Core Values

To have respect for others
To be ethical
To be trustworthy & innovative



Sales enquiries:

EC Piles Sdn Bhd 199801007938 (464065-M)
33-1, Jalan PJU 10/10B
Saujana Damansara PJU 10,
47830 Petaling Jaya, Selangor
Office +6017 281 2828
Email sales@ecpiles.com
Web www.ecprecast.com