

EPOCH CONCRETE WORKS

ENGINEERED CONCRETE COVER BLOCKS

Estd 2020



EPOCHTM
Concrete Works



YOU DREAM, WE HELP YOU BUILD.

Nothing is Impossible

**Epoch has the most
Durable and Engineered cover blocks
which are tested for durability. Not just
that but also sustainable, using Green
Concrete Technology.**



**Build Your Dream
Project with Our
Cover Blocks**



ABOUT US

Epoch Concrete Works is dedicated to create products which adheres to the principles of Durability, Sustainability and Workability. Our products are engineered, technically sound design for the quality kind of construction. We are guided by the core values of Quality design, Sustainable products and continued Innovation.

Our efforts towards conscious building has become the need of the hour, and we are committed to do the same.

Our strength lies in the expertise we hold in the area of Structural products that meet the needs of a range of Infrastructural projects.



EXPERTISE

TO THE TABLE ALWAYS

Our Parent company- UnnarKar's Group of Companies is a Professional Firm providing Services in the area of CIVIL – STRUCTURAL Engineering.

Our Technical Advisor, Mr. Paresh UnnarKar is a practising RCC Consultant with an experience of over 30 years. He is India's first RCC Consultant to have a 'Concrete Testing Laboratory on Wheels' and is a Green Concrete Technologist too.



INNOVATION

IS AT THE HEART OF EVERYTHING WE DO

We have the first ever Square cover blocks!

Our Cover blocks are sustainable in nature, making it an eco-friendly product without compromising on any parameters of strength and durability.



WHY ENGINEERED COVER BLOCKS?

- 1. Concrete cover plays a crucial role in the life span of the structure. The cover helps you determine the life span.**
- 2. Prevent Corrosion of Steel by Carbonation and penetration of Moisture and Air from the surface**
- 3. Give the Reinforcement bar the necessary Embedment to be Stressed without Slipping.**
- 4. Acts as a Thermal Insulation of Reinforcement bars to protect it from Fire.**

EPOCH COVER BLOCKS



EC-25-R



EC-30-R



EC-50-RH



EC-75-RH



EC-30/40-DR



EC-40-SQH



EC-30-CH



EC-40-CH



EC-50-CH



EC-75-CH

PACKAGING



We use customized version of cardboard boxes to pack our products. It is durable, easy to handle and store. With it we reduce wastage by 90% that happens due to broken cover blocks.

Specifications of Sizes

Block View	Type	Structural Element	Nomenclature	Cover Size "MM"	Thickne ss "MM"	Numbers per Pack "Nos"
NORMAL COVER BLOCKS						
	Regular	Slab	EC-25-R-20	25	20	500
	Regular	Slab, Beam	EC-30-R-25	30	25	400
	Reegular Twin	Slab, Beam	EC-30/40-DR-25	30 & 40	25	256
HEAVY DUTY COVER BLOCKS						
	Regular-Square	Beam Column	EC40-SQ-H-20	30	20	60
	Regular	Footing, Pile Cap	EC-50-RH-35	50	35	126
	Regular	Footing, Pile Cap	EC-75-RH-40	75	40	40
CIRCULAR - HEAVY DUTY COVER BLOCKS						
	Circular	Beam, Column	EC-30-CH-20	30	20	120
	Circular	Beam, Column	EC-40-CH-20	40	20	60
	Circular	Beam, Column, Pile, Pile Cap	EC-50-CH-25	50	25	42
	Circular	Pile, Pile Cap	EC-75-CH-30	75	30	14

Technical Note

- Higher Grade of Concrete does not guarantee Durability.
- As per IRC 112-2011- Life Span of Bridges are 100 years, if you want Life Span of Structure = 50 Years, then just reduce cover by 5mm only. This explains the importance of Concrete Cover.
- Cover to Concrete is one of the important aspect of Durability but it is the 'MOST NEGLECTED' at site.
- As per BS 7973-Part-1- Minimum Grade of Concrete M50 for Concrete Cover Blocks.
- As per BS 7973-Part-1- Concrete Cover Blocks should not be made at Site.
- As per IS 16700:2017- Structural Safety of Tall Concrete Buildings- Concrete to satisfy:-
RCPT- Foundation < 1000 Coulomb,
Superstructure < 1500 Coulomb
Water Penetration- Foundation – 15mm Max,
Superstructure- 20mm Max

Technical Specifications of Epoch

<i>Characteristics</i>	<i>Values</i>	<i>Reference</i>
Compressive Strength	Minimum M60	IS-456 & IS-4031 Part 06 1988
Water Absorption	Less Than 2.5%	BS 1881-122-2011
Rapid Chloride Penetration Test	Very Low–Less than 1000 Coulomb	ASTM C 1202-19
Sulphate Content	Less than 1% by MoC in Mix	IS-456:2000 (RA:2016)
Chloride Content	Less Than 0.5 kg/Cum	IS-456:2000 (RA:2016)
Water Permeability Test	Less than 6mm	DIN 1048 Part 5:1991
pH Value	More than 12.6	IS 2720 Part-26:1987 RA 2016



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