

# ROCKMAX<sup>®</sup> SUPERRIB



FORM RIB FOR CONSTRUCTION JOINT,  
PERMANENT SHUTTERING, FORMWORK

## INTRODUCTION

**Rockmax Superrib** is a galvanized permanent shuttering system with a unique design incorporating mesh and roll formed ribs. This system retains poured concrete achieves a significant reduction in the pressure of concrete normally associated with conventional formwork and provide mechanical keys for construction joints.

It can be placed before reinforcing rods which are installed after by piercing them through the mesh are in the rib. This light and versatile product can be cut and bent to shape. Therefore suiting may applications and can be fitted in less time than traditional formwork. The advantage of Superrib are that no stripping or preparation work the joint is necessary before bonding to any adjacent pour. Also if reinforcement is in place it will allow continuation of fixing without a break.

## STANDARD

BS 6399 part 1, 1984

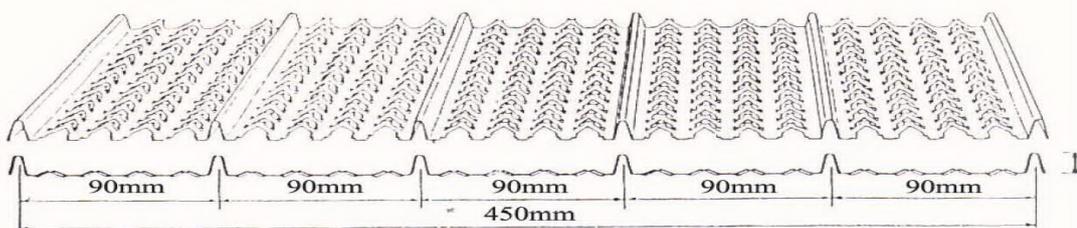
ASTM A653/A653M

## APPLICATION AREAS

Formwork construction joints, the formwork remain permanently placed the pored concrete and the surface after casting which requires no bonding medium for the next pour. The quality of the bonding between new concrete and old is strong and durable than normal shuttering method, without any sort of damage on concrete. Superrib is using in many large construction structures, sewerage plants, storage tanks dry docks, foundation, and bridge decks are some among them. The super-rib will be permanently places after casting that reduces the cost of shutter removal, only support removal is required.

## ADVANTAGE

- Lightweight Unlike heavy timber, It is extremely light and is easily transported to sites.
- Permanent, Its forms a permanent shuttering for construction joints, unlike temporary timber formwork which must be removed after concrete is casted.
- Convenient Unique “fingers” in Superrib retain the concrete that is poured, with the resulting surface, requiring no special bonding preparation for the next pour.
- Greater Strength and Uniformity, without the need to chisel, hack or roughen the poured concrete by mechanical means, there is less likelihood of inducing cracks which could weaken the bonding strength and joints.
- Flexible, Superrib is easily bent and cut into required shapes, making it highly suitable for low-key or toggle joints. When used before rod reinforcement, rods can later be positioned by simply piercing through the mesh.
- Time Saving, Superrib eliminates the stripping, cleaning, hacking and oiling normally associated with plywood formwork, as well as unnecessary drilling and carpentry works.
- Reduce Presssure, Superrib was designed helps to reduce the water pressures build-up common with wet cement, so less support is needed.



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## MATERIAL DETAIL

Material: Galvanised coated steel (according to ASTM A653/A653M)

Ref Number	Thickness	Weight (Kg/m <sup>2</sup> )	Sheet Size (mm)
SR-81	0.4 mm	3.40	2500 x 450

## CONCRETE STABILITY

The application of the Superrib is suitable in most concrete mixes with slump between 70mm to 180mm. When the application is with concrete slump of 180mm and over, a little cementations liquid is expected to seep/leak through the openness of the "keying region" of the Superrib during the initial stage of the concrete pour. However this will not weaken the strength of the concrete core. In this application no vibrator is used.

## VIBRATION

The placement of vibrator shall be at least 450mm away from the Superrib. If a nearer distance must be used, the vibration must be operated in 5 to 10 seconds burst each time. Monitor the pour. External vibrators are not recommended and do not vibrate the steel reinforcement.

## POURING CONCRETE

Concrete shall not be poured directly against the Superrib. The concrete shall be poured at about 500mm distance away from the Superrib and let it flow towards the Rib. In general, the pour (or initial pour) of concrete should be effected against the ribbed side of the Rib. Excess grout should be removed. Taking care not to disturb the fresh concrete Superrib face while removing any overspill and grout build up on the walings.

## SIDE LAPPING & END LAPPING

Side lapping is lap only edge ribs approximate 12mm overlap.

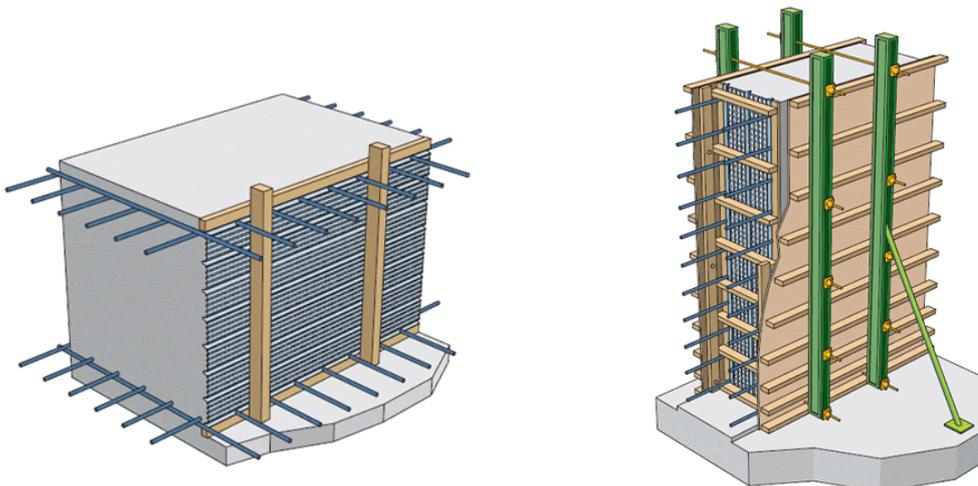
End lapping is 25mm to 50mm overlap use nail or tie to support.

## CLEANING

If excess grout builds up on the waling and supports it is good practice to lightly brush these clean before the concrete hardens.

## PREPARING THE NEXT POUR

Remove the timber frame and prepare the exposed concrete band, being careful not to damage the edge corners. Remove any debris or loose particle. Do not remove Superrib. It is permanent formwork.



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## TEMPORARY SUPPORTS

All temporary support must be designed and calculated based on grade of concrete by engineer. The support must be strong and efficiency before and after place concrete. Any technical support, please contact **Rockmax** for more information.

## PACKING

10 Sheet per bundle.

## STORAGE

Storage in shade and dry condition Avoid from frost, water, moisture and high temperature.

## CONTACT DETAIL

THAILAND

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### *IMPORTANT NOTE!!*

*The technical information contained herein, while not guaranty, was prepared and approved by technical personnel and is true, accurate to the best of our knowledge. No warranty or guaranty is made regarding performance, stability or other factors beyond our control. Rockmax will welcome to be consultation of our performance and application. This technical datasheet supersedes and issue new edition without prior notice.*

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