

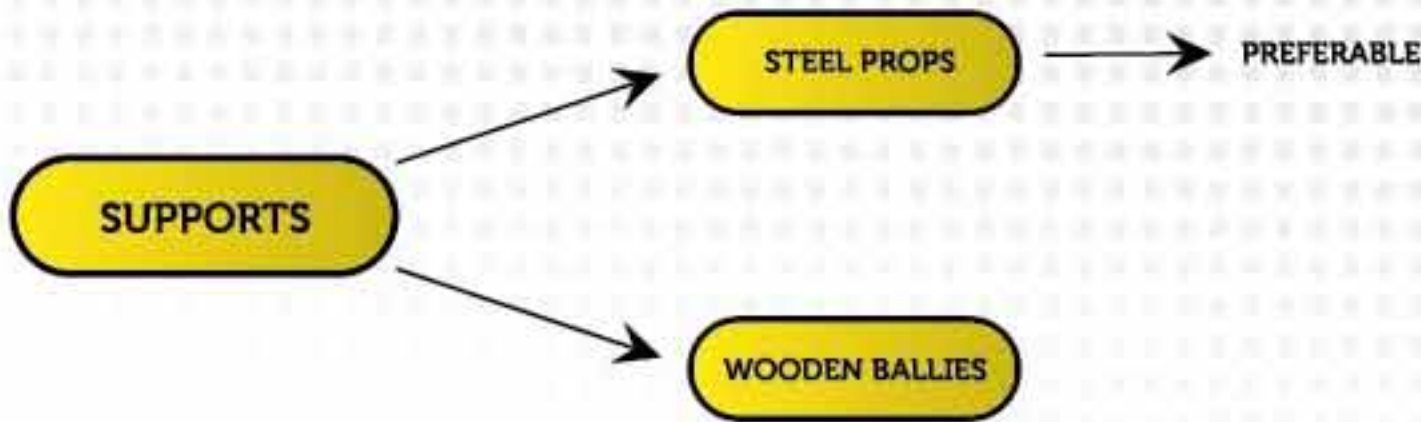


WAYS TO BETTER YOUR FORMWORK

UltraTech
C E M E N T

The Engineer's Choice

GOOD FORMWORK SHOULD BE RIGID WITH SUFFICIENT SUPPORTS TO WITHSTAND ALL THE LOADS TILL THE CONCRETE HARDENS



Wooden Ballies



Steel Props

- ✓ Ensure verticality of the supports & it should be braced
- ✓ The size of the ballies should be 100mm dia at the mid length and 80mm dia at thin end
- ✓ The maximum spacing of the centering props shall be 1m centre to centre
- ✓ Use **Mastic Tapes** to seal the joints of the centering plates - to prevent leakage of slurry through joints
- ✓ Apply grease/shutter oil on the surface of the formwork - to **ensure easy deshuttering** without damaging the concrete surface
- ✓ Remove dust particles like saw dust, chippings and paper pieces e.t.c., if any, on the face of formwork before placing the concrete
- ✓ In case of wooden ballies, ensure that the ballies rest on a firm base
- ✓ Inclined supports and knife edge resting to be avoided



Joint Sealed With Mastic Tape



Well Braced Formwork with Steel Props



Slab Formwork



Well Supported Stair Formwork

DEFECTIVE FORMWORK



Improper Base for Support



Gaps in Formwork faces

REMOVAL OF FORMWORK

Formwork shall be removed without shock or vibration, as those would damage the concrete. Under normal circumstances where temperature does not fall below 15° C, OPC is used and adequate curing is done, deshuttering shall be as per the table given on the next page.

ORDER OF REMOVING THE FORMWORK

- ✓ Shuttering forming the vertical faces of walls, beams and column sides (non-load bearing) should be removed first
- ✓ Shuttering forming bottom of slabs should be removed next
- ✓ Lastly, shuttering forming bottom of beams and other heavily loaded shuttering should be removed

Removal duration for different conditions (as per IS 456 -2000)

| Sl.No. | TYPE OF FORMWORK | MINIMUM PERIOD BEFORE STRIKING FORMWORK |
|----------|---|---|
| A | Vertical formwork to columns, walls, beams | 16-24 hours |
| B | Soffit formwork to slabs (Props to be refixed immediately after removal of formwork) | 3 days |
| C | Soffit formwork to beams (Props to be refixed immediately after removal of formwork) | 7 days |
| D | Props to slabs: 1) Spanning up to 4.5 m 2) Spanning over 4.5 m | 7 days 14 days |
| E | Props to beams and arches: 1) Spanning up to 6 m 2) Spanning over 6 m | 14 days 21 days |

For other cements and lower temperature, the stripping time recommended above may be suitably modified.



**Call Toll free
1800-425-2525**

- To talk to our Mobile Concrete Expert *
- For Technical /General assistance
- For RMC Bookings

UltraTech Cement Limited

*Conditions apply. Services available in select cities/locations only

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