

# CONCRETE DOOR & WINDOW FRAMES

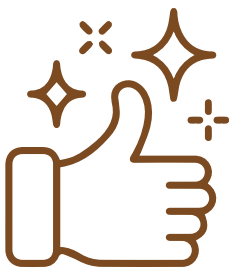
## ABOUT RX3 PRECAST

RX3 precast is a unit of M/s Podhigai Natural Resources Pvt Ltd and RX3 precast is being established as largest precast unit in the southern India. RX3 provides a wide selection of precast products like concrete garden furniture, concrete door frames & windows, ventilation jali, tree guard, fencing poles, survey poles, concrete solid/hollow blocks, plastering-free concrete blocks, concrete bricks, precast compound wall, etc to perfect for any occasion.

From decorative pieces to functional precast products, we assure that each piece is made using state-of-art vibro-compaction concrete technology to meet the individual needs of the customer.



01



**Superior  
Quality**

02



**Affordable  
Price**

03



**Easy  
Construction**

## WHY CONCRETE DOOR & WINDOW FRAMES

Over the last few decades, the Govt. of India has recognised and encouraged the use of substitute building materials in place of wood in order to save forest wealth, green cover on earth and environment. Central Building Research Institute, Roorkee and National Building Organisation, New Delhi, both Govt. of India research organisation on building materials, had been engaged in developing door and window frames of a versatile building material other than wood.

Studies and research finally recognised the suitability of RCC door and window frames as the best option when compared to traditional wooden frames and steel and other alternative material-based window and door frames. As a follow of these extensive research and studies, Bureau of Indian Standard formulated standard specification for RCC Door & Window Frames (IS: 6523 of 1983).

RX3 precast brought state-of-art vibro-compaction concrete technology to southern India to produce this revolutionary product of concrete door and window frames.

## A COMPARISON

| No. | Traditional Wooden Door and Window Frames                                                                                | RX3 RCC Door and Window Frames                                                                     |
|-----|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1   | Cost Effect : Costlier than RCC Door and Window Frames of M40 concrete made through Vibro-Compaction Concrete Technology | Cost Effect : At least 60% cheaper than the wooden frames made of low-grade wood                   |
| 2   | Water Effect : Wooden frames expand during monsoon and contracts & bends during summer                                   | Water Effect : RCC frames are immune to water and suitable for all weather conditions              |
| 3   | Fire Effect : Can easily succumb to the fire                                                                             | Fire Effect : Fire Proof                                                                           |
| 4   | Termite Effect : Succumbs to the termites and gets rotten                                                                | Termite Effect : Termite Resistant                                                                 |
| 5   | Handling Effect : Not easy to handle, needs skilled carpenters                                                           | Handling Effect : Easy to assemble and transport, ordinary masons can assemble RCC frames          |
| 6   | Strength Effect : High strength needs costly wood and concrete lintel to support                                         | Strength Effect : M40 grade concrete has high compressive and tensile strength, no need for lintel |
| 7   | Environment Effect : Tree cutting to make wooden frames is highly damaging to environment                                | Environment Effect : Eco-friendly construction material and positive effect on environment         |

## KEY FEATURES



### Termite and Corrosion Resistant

Unlike timber and steel frames, RCC Window and Door Frames are termite-proof, fungus-proof, rust-free, corrosion-free, anti-decaying and anti-pest, thus, increased longevity



### Fire Resistant

RCC Window and Door frames are highly fire resistant and play a vital role in keeping people safe and minimising property damage during fire. The window and door frames have been fire-tested to withstand extreme high temperatures for a longer time period.



### Weather Resistant

RCC Window and Door Frames are found to be the most suitable frames for all weather conditions, remains unaffected by extreme humid wet conditions during rainy seasons and high temperature during summer seasons.



### Ease of Assembly & Installation

The RCC Window and Door Frames are easy to assemble & painting and also offer simple yet reliable arrangements for mounting hinges, fixtures and shutters. The installation process is simple when compared traditional wooden frames, thus, not requiring any special skills or manpower to work on it.



### Superior Finish

RX3 RCC Window and Door Frames are high grade smooth finish with rock strength because, they were made using high finish steel moulds and vibro-compaction concreting technology. RX3 frames do not require any polishing, only painting with primer coat.



### Superior Strength

RX3 RCC Window and Door Frames are made from M40 grade concrete with high-tensile steel wire reinforcements, they are robust and strong as compared to wooden frames, adding steel in reinforcement gives more strength in tension.



### No Lintel Required

As the RX3 RCC Window and Door Frames are made from M40 grade concrete, no lintel is required and they can bear the load of brick work above it.



### Vast Range of Sizes

RX3 RCC Window and Door Frames are available in wide range of sizes and options of bar or grill in windows, catering to all requirement of residential, industrial and commercial purpose and usage ranging from drawing rooms to toilets



### Highly Durable

RX3 RCC Window and Door Frames are made from high quality raw materials from our stone mines, high-tensile steel from ISI standard steel companies, Dalmia cement, fittings are made from virgin polypropylene material and M40 grade superior quality concrete, thus, our RCC Window and Door Frames are highly durable and long lasting.



### Highly Economical

When compared to wooden and iron frames, RX3 RCC Window and Door Frames are less than 40% cost of lowest grade wooden frames. Moreover, they have a longer life and are maintenance-free too.



## CONCRETE WINDOWS



RX3 window frames are having wide option on the grill to be fitted in the frames. RX3 is having option of stainless-steel round grills, stainless-steel round bars, mild-steel square grills and mild-steel square bars. As per the requirement of the customers, we can fit the grills/bars in the window frames. RX3 doors and window frames are suitable for low cost housing, out-houses, rooms in farms, etc.

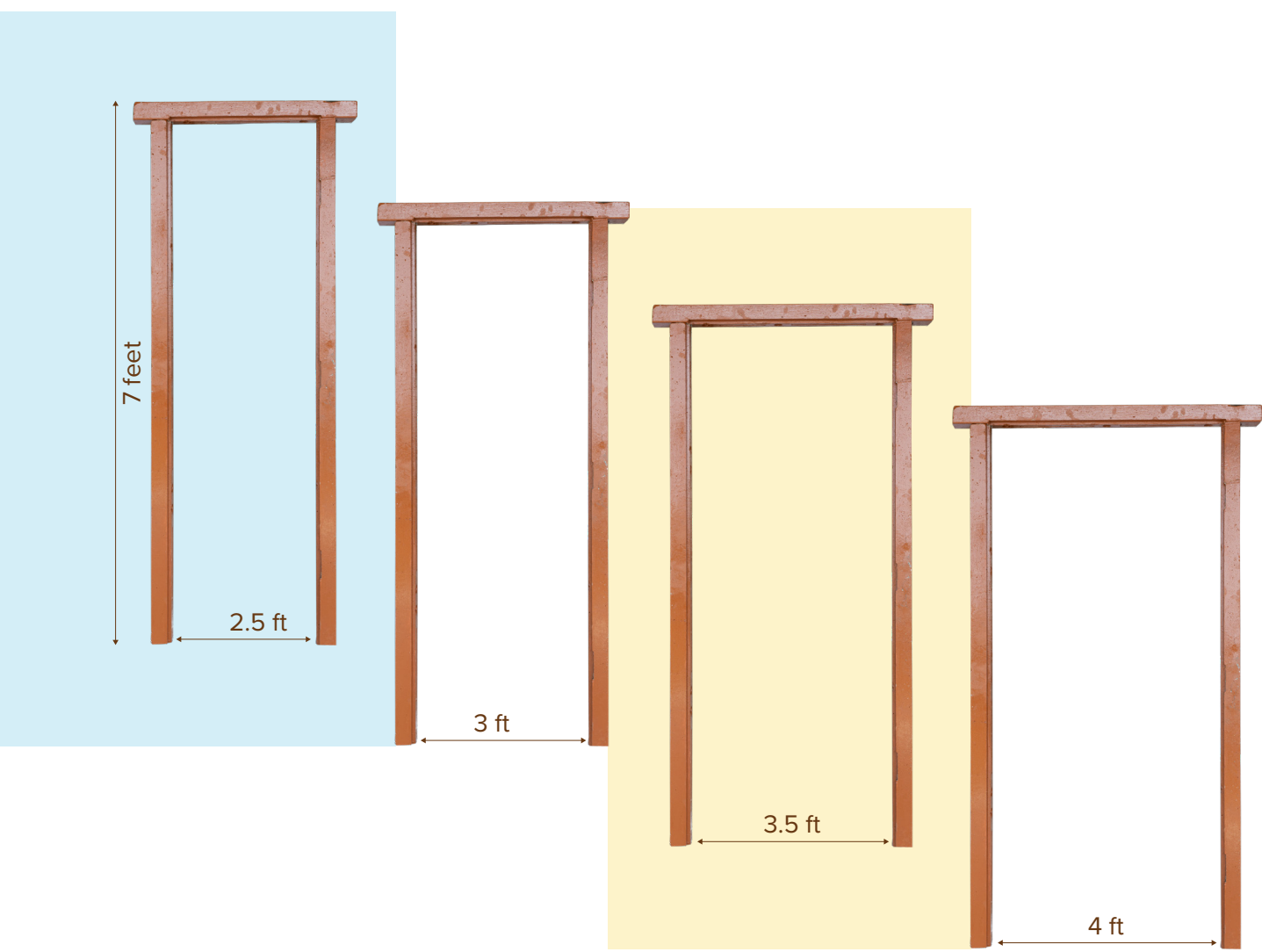
## RX3 RCC WINDOW FRAMES DETAILS

| Number of Shutters                | Size                                     | Thickness     | Grill/Bar                             | Usage             |
|-----------------------------------|------------------------------------------|---------------|---------------------------------------|-------------------|
| Three Shutters                    | 4 ft H X 4.5 ft W                        | 100mm X 100mm | Both 10 mm Grill & 10mm Bar available | All uses          |
| Two Shutters                      | 4 ft H X 3 ft W                          | 100mm X 100mm | Both 10mm Grill & 10mm Bar available  | All uses          |
| Single Shutter                    | 4 ft H X 1.5 ft W                        | 100mm X 100mm | Both 10mm Grill & 10mm Bar available  | All uses          |
| Ventilator with Single Shutter    | 1.5 ft H X 2 ft W<br>1.5 ft H X 1.5 ft W | 100mm X 100mm | 10mm Bar only                         | All uses & Toilet |
| Toilet Ventilator without Shutter | 1.5 ft H X 2 ft W<br>1.5 ft H X 1.5 ft W | 100mm X 100mm | 10mm Bar with Glass Inserts           | Toilet            |

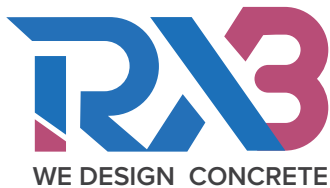


# RX3 RCC DOOR FRAMES DETAILS

| Material    | M40 grade concrete                 |
|-------------|------------------------------------|
| Height      | 7 ft                               |
| Width       | 4ft/3.5ft/3ft/2.5ft                |
| Thickness   | 100mm X 75mm                       |
| Design      | Standard                           |
| Shutters    | Single                             |
| Application | Residential/Industrial/ Commercial |
| Brand       | RX3                                |







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