

# HNG Float Glass



Interarch presence in Gujarat for constructing steel buildings has been instrumental since last 10 years. Interarch has successfully designed, engineered and executed 6 buildings for HNG Float Glass in Gujarat. This project is first of its kind project by Interarch for Glass process plant executed in complete steel including furnace & float bath building. The total time taken to complete the project was 12 months. Total value of the project was INR 260 million. The height of the buildings varied from 10m to 15m, with covering approximately area of 38000 Sq. MT for a single ware house building.

The only challenged faced by Interarch during the designing process of the building was converting a complex and Chinese design as per Indian material specification/plate thickness. Interarch design team handled the project very efficiently and completed the design process in record time to complete the project.

HNG Float Glass Ltd. was set up in 2006 under the flagship of Hindusthan National Glass & Ind. Ltd. to manufacture float glass. The company has a state-of-the-art integrated plant at Halol, Gujarat (35kms from Vadodra) with a capacity of 600 TPD and provision for second float line of 850 TPD.

## Project Highlights

<b>Project Name</b>	<b>HNG FLOAT GLASS LTD.</b>
<b>Location</b>	<b>Halol, Gujarat</b>

### Furnace Building

The building is spread over the area of 2993 Sq. M with the total steel tonnage used of 209 MT. One monorail of 3 MT at a distance of 7m from each side wall (crane & crane rail by others) wa used while constructing the building.

Building Usage	Furnace Building
Tonnage	209 MT
Building Area	2993 Sq. M
Features	<ul style="list-style-type: none"> <li>• Dimensions W- 41 M, L - 73 M, H - 14.40 M Eave Height</li> <li>• Provision for 3 MT of monorails 2 in no.</li> <li>• Framed openings 2 in nos.</li> </ul>

### Float Bath Building

The building is spread over the area of 1989 Sq. MT with a steel tonnage used of 140 MT. The special framed opening windows were provided for the building as per the requirement.

Building Usage	Float bath Building
Tonnage	140 MT
Building Area	1989 Sq. M
Features	<ul style="list-style-type: none"> <li>• Dimensions W- 27.25 M, L - 73 M, H-13.50 M Eave Height</li> <li>• The Main building has 2 nos. of Lean to Shed attached area of each is 584 Sq. M &amp; 296 Sq. M each</li> <li>• Framed opening for windows provided</li> <li>• Partially enclosed window</li> </ul>

### Annealing Lehr Building

The building is spread over the area of 3154 Sq. Mt with the total steel tonnage used of 109 MT. This is a partially closed building with one canopy.

Building Usage	Annealing Lehr Building
Tonnage	109 MT
Building Area	3154 Sq. M
Features	<ul style="list-style-type: none"> <li>• Dimensions W- 19 M, L - 166 M, H - 8 M clear height</li> <li>• It has 2 nos. of Lean to Shed attached to it, area of each sheds - 343.85 Sq. M</li> </ul>

### Warehouse Building

The warehouse building is the biggest of all is spread over the area of 38133 Sq. M with the total steel tonnage used of 1437 MT. The building was designed considering the provision of 2 EOT cranes of 5 MT.

Building Usage	Warehouse Building
Tonnage	1437 MT
Building Area	38133 Sq. M
Features	<ul style="list-style-type: none"> <li>• Building dimensions W - 171 M, L - 223 M, H - 10 M Clear Height</li> <li>• 5 nos. of Canopy provided on side wall</li> <li>• Provision for 1 EOT crane of 5 MT for a span of 36 M</li> <li>• Provision for 1 EOT crane of 5 MT for a span of 38 M</li> <li>• Jack beams considered</li> </ul>

### Raw Material Building

The building is spread over the area of 3751 Sq. M with the total steel tonnage use of 205MT. Two 3MT EOT crane at 8.0m level above FFL was provided to run for full length of the building.

Building Usage	Raw Material Building
Tonnage	205 MT
Building Area	3751 Sq. M
Features	<ul style="list-style-type: none"> <li>• Building dimensions W- 31 M, L-121 M, H - 10 M clear height</li> <li>• 8 Nos. of Canopies provided</li> <li>• Provision for EOT crane 2 nos. of capacity 3 MT for a span of 30 M</li> </ul>

### Homogenous Building

Homogenous building is spread over the area of 7807 Sq. M with the steel tonnage used of 500 MT. 3 MT load was lifted from the rafter of 4m wide for re-claimer for full length of the building.

Building Usage	Homogenous Building
Tonnage	500 MT
Building Area	7807 Sq. M
Features	<ul style="list-style-type: none"> <li>• Building dimensions W- 37 M, L-211 M, H- 15 M eave height</li> <li>• 4nos. of Canopy provided</li> </ul>

### Note: Engineering of the project

Consultant for this project was Chinese company: M/s China Triumph International Engineering Company Ltd (CTIEC). Building, Machinery & Equipment layout was done by CTIEC, however Interarch designed the buildings supplied by Intearch again and provided the necessary changes required in section size & plate thickness etc.



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