

**Interarch
Pre-Engineered
Metal Building
Systems
for
Rooftop
Expansion
Projects**

INTERARCH BUILDING PRODUCTS NEWSLETTER

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Pre-Engineered Structural steel system for Rooftop Expansion:

Interarch structural steel system is ideal for rooftop expansion projects when the FAR of the building increases or the occupant wants to utilize the available space on the roof for expansion. **Interarch LIFE** takes innovation in engineering, and strives to go beyond the realm of conventional construction with its team of leading engineers, world-class manufacturing facilities and efficient project handling capabilities.

Applications of Interarch structural system for rooftop expansion projects

- Additional Floor on the existing school & college building
- Vertical Expansion on Hospital Buildings
- Rooftop expansion projects for Miscellaneous applications like Canteen Building, Training Hall, Recreation facility
- Rooftop expansion of residential buildings
- Additional Floor on commercial buildings

Rooftop Expansion on G+2 Residential Building



Rooftop Expansion on G+9 Commercial Building



Rooftop Expansion on Government School Building



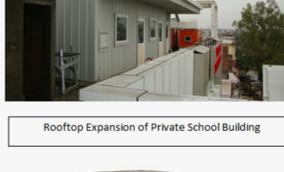
Rooftop Expansion on G+4 Car Parking



Rooftop expansion of Canteen Building on G+6



Rooftop expansion of Training Hall on G+5



Rooftop expansion of Industrial Building



Rooftop Expansion of Private School Building



Rooftop Expansion for Temple Building



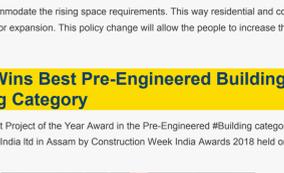
Rooftop expansion for Hostel on G+4



Rooftop Expansion for Temple Building



Rooftop expansion for Hostel on G+4



Growth Opportunity: Policy Change in commercial FAR

Many cities have a policy to increase the FAR or FSI over a certain period to accommodate the rising space requirements. This way residential and commercial establishment can continue to utilize more space instead of moving to new areas for expansion. This policy change will allow the people to increase the number of floors in the existing buildings

Award & Recognition: Interarch Wins Best Pre-Engineered Building Award in Pre-Engineered Building Category

We are pleased to announce that Interarch Building Products Pvt Ltd has won Best Project of the Year Award in the Pre-Engineered #Building category (PEB) Runners up Award for delivering a Greenfield Expansion Project for Berger Paints India Ltd in Assam by Construction Week India Awards 2018 held on 30th September 2018 in Mumbai



Project Spotlight: Olympia Tech Park

Interarch executed Rooftop extension project for Olympia Tech Park, Chennai with an area of 14,700 Sq. M. Two addition floors were made on the top of the existing G+9 Multi-Storey Building. The work was carried on building at a height of 30 M



Project Name	Olympia Tech Park Pvt Ltd		
Project Location	Chennai, Tamil Nadu		
Building Usage	Office Building		
Total Area	14733 Sq. M		
Length	110.45 M	102.8 M	80 M
Height	3.5 M Clear under the knee		
Design Code	IS 800-2007		
Seismic Zone	III		
Roof Slope	1 in 44.50 (Flat roof mezzanine system)		



Interarch Industry Spokesperson - Ar. Abhijit Ray, New Delhi

AR. ABHIJIT RAY is one of the renowned names in the construction industry with a professional experience of more than 40 years with expertise in Industrial Projects, Housing, Hospitals, Academic & Institutional Buildings, in Delhi NCR & various part of the Country. He is principal officer of Abhijit Ray & Associates a proprietary consultancy firm and has won numerous awards like the Dutch Government Fellowship in 1973, Certificate Merit for Asia 1972 Trade Fair Commendation in low cost housing design competition organized by Housing & Urban Development Corporation in 1974-75. Distinguish Services Award (2017) from I.I.T. Kharagpur. & Merit Holder Alumnus of IIT Kharagpur, B Arch (Hons) in 1969.



According to Mr. Ray, due to space scarcity and increase FAR policy, the rooftop expansion is very popular nowadays and steel structure takes a lead for such kind of expansion. When the project is executed in steel it helps in achieving shorter construction time and reduces the roof load and dead load on the building. Metal roof helps in reducing weight of super structure, including the roof.

As per Ar. Ray, steel structure is going to be the future of rooftop structure and currently it is huge in demand in school and college building, specially government sector because steel building is considered a semi-permanent structure as per building by laws and doesn't require sanction from municipal authorities and cater the immediate need of adding to the new classroom. Delhi Government Schools are expanding their rooftop classroom in steel structure only. Even lots of colleges are adopting a steel structure for their rooftop expansion.

On focusing on the role of the architects, he suggests that the Architects need to examine the load bearing capacity of the roof, columns and the foundations. Steel structure building helps in reducing weight of the superstructure including the roof. As rooftop expansion is case specific, building to building, project to project so the architect needs to give more emphasis towards a total aesthetic of the building considering the vertical expansion in steel structure roofing. In case of metal sheet roofing, proper detailing has to be taken for the drainage of water through the existing downtake system and fascia must match with existing elevation.



In order to obtain a comfort level inside the building, roofing specification needs to be examined from the point of view of heat and cold seasons. Use of false Ceiling in roof and insulated panel in wall helps in reducing the impact of outside weather. It is also advisable to use a double skin metal sheet or single skin metal sheet roofing or under deck sheet insulation along with False ceiling for thermal comfort, aesthetic and acoustics.

Mr. Ray was involved in Rooftop office building expansion of JTEKT India Ltd at Dharuhera and Gurgaon. Since the expansion was challenging and he carried out with steel structure building considering metal sheet, insulation and false ceiling. Projects were completed around 20 years back and it is still performing well.

While considering connection details he suggests that proper time must be spent in the engineering stage so that there are no problems in the pre erection stage and the site activities can be carried out in an organized manner which brings the organized Pre Engineered building companies to offer their technical knowledge.

By focusing on the time schedule of additional floor on existing building Mr. Ray feels it is depends on the size of building and system adopted for column, beams and the roof sheeting specification. But generally there is an advantage of 30-35 % of time reduction if you go with the steel structure system. Mr. Ray gives more emphasis on safety parameters as fire safety norms need to be followed while designing and execution of construction.

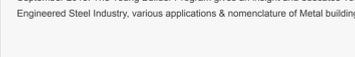
IBPL Experience for Rooftop Expansion

Interarch caters to some of the most diverse steel building construction projects in India ranging from clients like Delhitec Public School, Fortis Healthcare Ltd, Haldiram and many more. Interarch has emerged into a large EPC player providing critical Project Management Consultancy to its clients

S. No.	Main Client/Contractor	Industry	City	Industry
1	Sadar Patel Marg Residential	Residential	New Delhi	Residential
2	Just Dial Office Building	Office	Noida	Commercial
3	Extramarks Education India Pvt Ltd	School	Noida	Education
4	GK Residential	Residential	New Delhi	Residential
5	Haldiram Ltd	Canteen	Noida	Commercial
6	Suprint Textile Pvt Ltd	Factory	Jaipur	Industrial
7	St. Pauls School	School	Gurgaon	Education
8	Geeta Mandir, Temple	Temple	New Delhi	Temple
9	Fortis Healthcare Ltd	Hospital	Bangalore	Healthcare
10	Blind Relief School	School	New Delhi	Education
11	Chiray Medical College	College	Indore	Education
12	Ralin Polymers	Factory	Indore	Warehouse
13	Vallabh Snaks	Factory	Indore	Industrial
14	DTTDC School Gitorni	School	MG Road	Education
15	Quality Needles Pvt Ltd	Canteen	Noida	Commercial
16	kathmandu university	College	Kathmandu	Education
17	Jaipuria Indore of Management	College	Indore	Education
18	Delhi Public School	School	Amritsar	Education
19	Olympia Techpark	Office	Chennai	Commercial
20	Pushpawati Singhania Research Institute	Hospital	New Delhi	Healthcare
21	Uflex Ltd	Office	Noida	Commercial

Project Won

- Transport Corporation of India Ltd in Rajasthan
- Parle Agro Pvt Ltd in M.P
- IndoSpace Logistics Park in Maharashtra
- Systematic Consom Ltd in Haryana
- SLMG Beverages Pvt Ltd in U.P

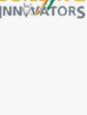


Project Completed

- Greenply Industries Ltd in Andra Pradesh
- Asian Paints Ltd in Karnataka
- Dileep Art in Rajasthan
- Siyat Property Pvt. Ltd in Haryana



Interarch Conducted Young Builder Program for student of the 3rd & 4th year of Sardar Patel College of Engineering colleges on 28th September 2018. The Young Builder Program gives an insight and educates Young Architects & Engineers about the Indian Pre-Engineered Steel Industry, various applications & nomenclature of Metal buildings



Training at Interarch:

Interarch Building Products conducts regular and effective training program for employees. Training was conducted on Stress management for Interarch Head office employees on 29/09/18 at Noida Office



