

## Modular Piperacks - 2

Peers Steelwork was successful in securing the design and supply of 570m of medium loaded piperacks for a new Paper Mill in Partington. The work space on site was very restricted due to other construction activities so the racks were designed as modular units and installed after normal working hours taking advantage of the summer light nights.



### Key Points:-

1. There were 41 Modules in all ranging from 8 Tonne to 22 Tonne in weight.
2. The largest unit was 21.5m long, 4m wide and 3.2m high.
3. The units were built up at Peers yard in Bolton including pipework.
4. Cable trays were fitted on site using the walkways provided in the modules.
5. Working off site at low level reduced the risk of accidents and access costs.
6. 6 sets of bolt on lifting lugs were used for all 41 modules.
7. UB sections were used for the trestle columns to allow the modules to be landed safely. Special resisting trestle head beam joints resisted differential shear forces.
8. All column bases were checked for temporary wind loads during erection.
9. The main end frame bottom beams were designed as transport beams allowing the units to be delivered on standard extendable trailer units.
10. It is estimated that this form of construction saved 10 weeks on the overall site programme and dramatically reduced the risks associated with working at height.

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