



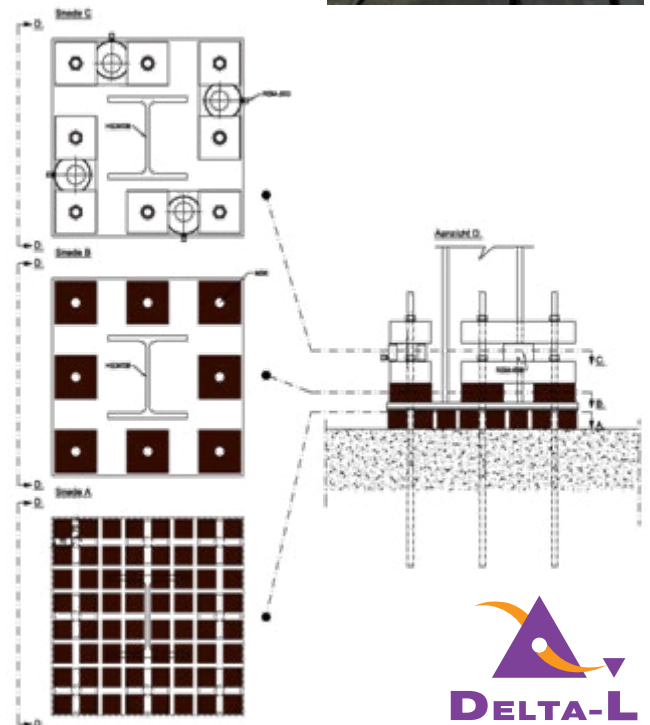
|                       |                         |
|-----------------------|-------------------------|
| • Job Type            | Building base isolation |
| • Vibration Source    | Train passage           |
| • Client              | The city of Zoetermeer  |
| • Main Contractor     | Heembouw                |
| • Architect           | BIAS                    |
| • Acoustic Consultant | Holland Railconsult     |
| • Checker             | TNO Delft               |
| • Year of execution   | 2006                    |
| • ADL Load            | 16200kN                 |



Adjacent to the train tracks in Zoetermeer, the Dutch contractor company Heembouw has realized a remarkable building following the design of BIAS' architects. The building contains shops and offices, and gives a very light and transparent impression.

To obtain a comfortable atmosphere inside, especially with respect to train passages, the acoustical consultant (Holland Railconsult) advised to put the steel structural columns on elastomers of 8Hz. For stability reasons however, the deflection during the construction of the building needed to be limited as much as possible.

Therefore, the isolator pads were put under precompression on site via a specific jacking method, using stabilizers in the same material (CDM-83). The initial thickness of both stabilizers and isolators was equal to 70 mm.



Building

Project Reference