



DSI References



### Reference Details

**Owner** SOGIMA, Marseille, France  
**+++ General Contractor** SECTP,  
Aix-en-Provence, France  
**+++ Subcontractor** SEFI INTRAFOR  
(13), France  
**+++ Architect** BECT,  
Marseille, France  
**+++ Engineers**  
BECT, Marseille, France

**DSI Unit** DSI-Artéon, Montluel, France  
**DSI Scope** Supply and Installation of  
7,000m of *GEWI*<sup>®</sup> Bar Anchors, types  
20, 26 and 32mm, DYWIDAG Strand  
Anchors, types 4, 5 and T15



## DYWIDAG Anchors Stabilize Construction Site in Marseille

### Application of DYWIDAG Anchors during Construction of a Housing Estate, France

**As in every French city, space to build new housing for the people of Marseille is at a premium. To provide some relief from this situation, the city of Marseille has provided an area of 6,000m<sup>2</sup> for the construction of new residential buildings.**

In the area, which is located in the city center, 150 apartments and 1,000 new garages are being built that will be allocated to residents. Minimizing construction costs and optimizing space are important objectives of this project because as many parking spaces as possible are to be fit onto an area as small as possible. In addition, the project must blend in with the cityscape. In order to create space for the new housing estate, a block of houses with old apartments was demolished. Subsequently, comprehensive excavation works with a volume of 100,000m<sup>3</sup> were carried out. Afterwards, the participating companies stabilized the excavation with a 20m high retaining wall.

DSI-Artéon stabilized this retaining wall by installing temporary DYWIDAG Strand Anchors and DYWIDAG Bar Anchors with a total length of 7,000m. In accordance with geological pre requisites and differing heights of terrain, DSI planned the flexible utilization of different anchor systems for yield loads between 100 and 900kN. In order to comply with the special demands of this project, DSI-Artéon used special anchor types for each calculated load. 20mm diameter *GEWI*<sup>®</sup> Bar Anchors were suitable for installation points with a load at yield of 100kN, whereas 26 and 32mm diameter DYWIDAG bar anchors were primarily used for loads of 350 and 550kN.

DYWIDAG Strand Anchors types 4 and 5 and type T15 were used for high service loads. These special DYWIDAG Strand Anchors were carried on site by gantry cranes and safely installed using an uncoiler.

The versatility and quality of DSI products and systems fully complied with the client's demands.

 more information please call: + 49.89.309050.200 or fax: + 49.89.309050.252 or e-mail: [DSI Munich](mailto:DSI.Munich)