



# Product sheet TN20C

0370

## noxifer®

**NOXIFER S.L.**

Ctra de Sarral a Barberà, parcel·la 21  
43424 - SARRAL (Tarragona) - España

**EN 1090-1:2009+A1:2011**

**Steel component for fixing precast concrete columns**

**Declaration of performance number: 19-01**

### ESSENTIAL FEATURES

|  |   |
|--|---|
| Dimensional and geometrical tolerances | According to EN 1090 - 2                |
| Sheet metal weldability                | JR grade according to EN 10025-2        |
| Corrugated bar weldability             | S grade according to UNE 36068          |
| Fracture toughness                     | 27 J a 20° C, according to EN 1993-1-10 |
| Reaction to fire                       | Classified material: Class A1           |
| Cadmium emission                       | NO EMISSIONS                            |
| Radioactivity emission                 | NO EMISSIONS                            |
| Durability                             | NPD                                     |

### STRUCTURAL FEATURES

|                    |                                       |
|--------------------|---------------------------------------|
| Sheet material     | S275JR according to EN 10025-2        |
| Nut material       | C8 according to DIN, UNE EN ISO 898-1 |
| Corrugated bar     | B500SD according to UNE 36068         |
| Sizing             | According to EN 1993-1                |
| Type of execution  | EXC3, according to EN 1090-2          |
| Fire resistance    | NPD (Outer element)                   |
| Fatigue resistance | NPD (Static loads)                    |
| Manufacturing      | According to EN 1090-2                |
| Bearing capacity   | According to EN 1993-1                |



|                          |                               |
|--------------------------|-------------------------------|
| Metrical                 | M20x2,5                       |
| Efficient section /Ø sp. | 245mm <sup>2</sup> / 17,66 mm |
| Maximum axial load (1)   | 96,3 kN                       |
| Maximum shear load (2)   | 31,26 kN                      |
| Maximum shear load (3)   | 6,9 kN                        |
| Equivalence (4)          | Ø16/201mm <sup>2</sup>        |

1) Maximum capacity defined by associated threaded anchor. Compression and tension according to Standard EC3 (EN1993-1-8: 2005)

2) Maximum shear capacity governed by threaded anchor (joint situation with filling done) according to Standard EC3 (EN1993-1-8: 2005; 3.6.1 Tb 3.4)

3) Maximum shear capacity governed by threaded anchor (joint situation without filling done) according to CEN/TS 1992-1-4-1:2009 5.2.3.4 (lever arm)

4) Direct relationship of capacities between column feet (= threaded anchors) and B-500S / SD rebar. Pre-sized.

Sarral 30th of August 2022

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