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Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-15/0286 of 2026/03/27

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

Desa-Chem PSF – Standard and Winter

Product family to which the above construction product belongs:

Bonded injection type anchor for use in non-cracked concrete: sizes M8 to M16

Manufacturer:

Desarrollos Especiales de Sistemas de Anclaje S.A
(Grupodesa)
C/Basters 29
Polígono Industrial El Palau del Reig
ES-43800 Valls (Tarragona)

Tel. (+34) 93 630 53 00

Fax (+34) 93 630 20 63

Internet www.desa.es

Manufacturing plant:

Plant 1

This European Technical Assessment contains:

15 pages including 10 annexes which form an integral part of the document

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of:

EAD 330499-02-0601, “Bonded fasteners for use in concrete”

This version replaces:

The ETA with the same number issued on 2015-05-22

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

The Desa-Chem PSF is a bonded anchor (injection type) consisting of an injection mortar cartridge equipped with a special mixing nozzle and threaded anchor rod of the sizes M8 to M16 made of galvanized carbon steel, stainless steel A4-70 or high corrosion resistant steel. See table A2 for material specification of the rods.

The threaded rod is placed into a drilled hole previously injected (using an applicator gun) with a mortar with a slow and slight twisting motion. The anchor rod is anchored by the bond between rod, mortar and concrete.

Each mortar cartridge is marked with the identifying mark of the producer and with the trade name. The mortar cartridges are available in different sizes.

The anchor in the range of M8 to M16 and the mortar cartridges corresponds to the drawings given in the Annex A1 and A2.

The characteristic material values, dimensions and tolerances of the anchors not indicated in Annexes shall correspond to the respective values laid down in the technical documentation¹ of this European Technical Assessment.

The anchors are intended to be used with embedment depth given in Annex A2, Table A1. For the installed anchor, see Figure given in Annex A2. The intended use specifications of the product are detailed in the Annex B1.

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B1 to B4.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the anchor of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

¹ The technical documentation of this European Technical Assessment is deposited at ETA-Danmark and, as far as relevant for the tasks of the Notified bodies involved in the attestation of conformity procedure, is handed over to the notified bodies.

3 Performance of the product and references to the methods used for its assessment

3.1 Characteristics of product

Mechanical resistance and stability (BWR 1):

The essential characteristics are detailed in the Annex from C1 to C3.

Hygiene, health and the environment (BWR3):

No performance assessed

3.2 Methods of assessment

The assessment of fitness of the anchor for the intended use in relation to the requirements for mechanical resistance and stability in the sense of the Basic Works Requirement 1 has been made in accordance with the EAD 330499-02-0601, “Bonded fasteners for use in concrete”.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base (AVCP)

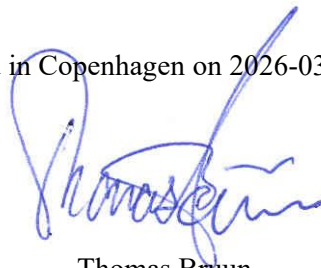
4.1 AVCP system

According to the decision 96/582/EC of the European Commission, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2026-03-27 by



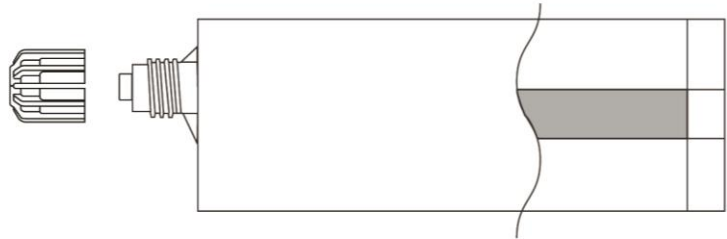
Thomas Bruun
Managing Director, ETA-Danmark

Injection Mortar : Desa-Chem PSF – Winter & Standard Resin System

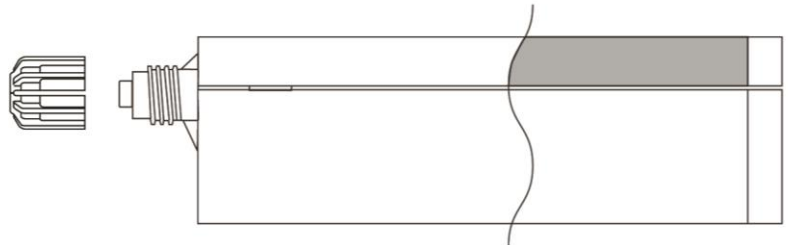
Foil Bag Cartridge 165ml - 410ml



Coaxial Cartridge
280ml, 380ml - 420ml



Side by Side Cartridge
235ml - 825ml

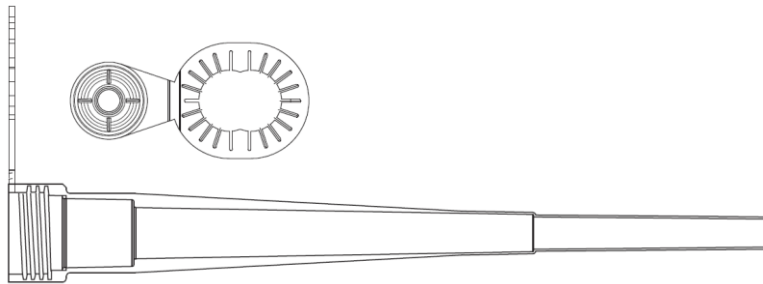


Marking:

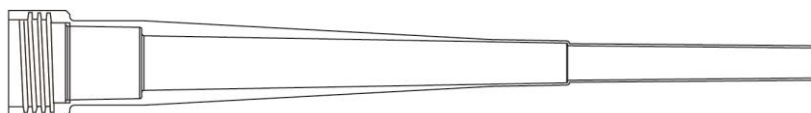
Desa-Chem PSF

Batch code, either expiry date or manufacturing date with shelf life

Mixer with hanger



Mixer



| | |
|--------------------------|---|
| DESA-CHEM PSF | Annex A1 of European Technical Assessment ETA-15/0286 |
| Product and intended use | |

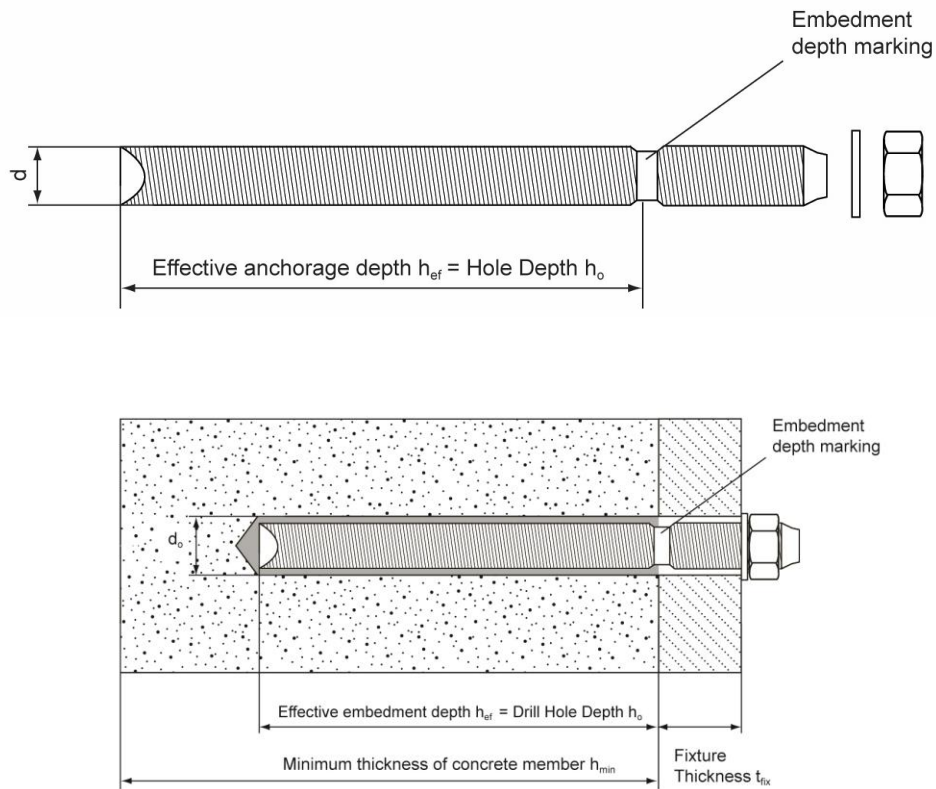


Table A1: Threaded rod dimensions

| Anchor size | | M8 | M10 | M12 | M16 |
|---|-------------------|--|------|------|-----------------|
| Diameter of anchor rod | d [mm] = | 8 | 10 | 12 | 16 |
| Range of anchor depth h_{ef} and bore hole depth h_o | min [mm] = | 60 | 60 | 70 | 80 |
| | max [mm] = | 160 | 200 | 240 | 320 |
| Nominal diameter of drill bit | d_o [mm] = | 10 | 12 | 14 | 18 |
| Diameter of clearance hole in the fixture | d_f [mm] ≤ | 9 | 12 | 14 | 18 |
| Diameter of steel brush | d_b [mm] ≤ | 12 | 13,3 | 14,9 | 19,35 |
| Installation torque moment | T_{inst} [Nm] = | 8 | 10 | 15 | 25 |
| Minimum thickness of concrete member | h_{min} [mm] | $h_{ef} + 30 \text{ mm} \geq 100 \text{ mm}$ | | | $h_{ef} + 2d_o$ |
| Minimum spacing | S_{min} [mm] = | 0,5 h_{ef} | | | |
| Minimum edge distance | C_{min} [mm] = | 0,5 h_{ef} | | | |

DESA-CHEM PSF

Threaded rod types and dimensions

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Table A2: Threaded rod materials

| Designation | Material |
|---|---|
| Threaded rods made of zinc coated steel | |
| Threaded rod M8 – M16 | Strength class 5.8, 8.8, 10.9 EN ISO 898-1 Steel galvanized $\geq 5\mu\text{m}$ EN ISO 4042 Hot dipped galvanized $\geq 45\mu\text{m}$ EN ISO 10684 |
| Washer ISO 7089 | Steel galvanized EN ISO 4042; hot dipped galvanized EN ISO 10684 |
| Nut EN ISO 4032 | Strength class 8 EN ISO 898-2 Steel galvanized $\geq 5\mu\text{m}$ EN ISO 4042 Hot dipped galvanized $\geq 45\mu\text{m}$ EN ISO 10684 |
| Threaded rods made of stainless steel | |
| Threaded rod M8 – M16 | Strength class 70 EN ISO 3506-1; Stainless steel 1.4401; 1.4404; 1.4578; 1.4571; 1.4439; 1.4362 en 10088 |
| Washer ISO 7089 | Stainless steel 1.4401; 1.4404; 1.4578; 1.4571; 1.4439; 1.4362 en 10088 |
| Nut EN ISO 4032 | Strength class 70 EN ISO 3506-1; Stainless steel 1.4401; 1.4404; 1.4578; 1.4571; 1.4439; 1.4362 en 10088 |
| Threaded rods made of high corrosion resistant steel | |
| Threaded rod M8 – M16 | $R_m = 800 \text{ N/mm}^2$; $R_{p0,2}=640 \text{ N/mm}^2$ High corrosion resistant steel 1.4529, 1.4565 EN 10088 |
| Washer ISO 7089 | High corrosion resistant steel 1.4529, 1.4565 EN 10088 |
| Nut EN ISO 4032 | Strength class 70 EN ISO 3506-2; High corrosion resistant steel 1.4529, 1.4565 EN 10088 |

DESA-CHEM PSF

Materials

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Use:

The anchors are intended to be used for anchorages for which requirements for mechanical resistance and stability in the sense of the Basic Works Requirement 1 of Regulation 305/2011 (EU) shall be fulfilled and failure of anchorages made with these products would compromise the stability of the works, cause risk to human life and/or lead to considerable economic consequences.

Anchors subject to:

- Static and quasi-static loads: sizes from M8 to M16.

Base materials:

- Reinforced or unreinforced normal weight concrete of strength class C20/25 at minimum to C50/60 at maximum according to EN 206-1.
- Non cracked concrete: sizes from M8 to M16

Temperature range:

The anchors may be used in the following temperature range:

- (a) Winter version: max short term temperature + 40°C and max long term temperature + 24°C;
- (b) Standard version: max short term temperature + 80°C and max long term temperature + 50°C.

Use conditions (Environmental conditions):

Elements made of galvanized steel and stainless steel may be used in structures subject to the following conditions:

- Internal dry conditions
- Dry internal conditions, external atmospheric exposure (including industrial and marine environment) or exposure in permanently damp internal conditions if no particular aggressive conditions exist.
- dry internal conditions, external atmospheric exposure, in permanently damp internal conditions or in other particular aggressive conditions - e.g. permanent, alternating immersion in seawater, splash zone of seawater, chloride atmosphere of indoor swimming pools or atmosphere with chemical pollution (e.g. in desulphurization plants or road tunnels where de-icing materials are used).

Installation:

The anchors may be installed in:




- Dry or wet concrete (use category 1): sizes from M8 to M16.
- Flooded holes with the exception of seawater (use category 2): sizes from M8 to M16.
- All the diameters may be used overhead: sizes from M8 to M16.
- The anchor is suitable for hammer drilled holes: sizes from M8 to M16.

Proposed design methods:

- Static and quasi-static load: EN 1992-4:2018 or EOTA Technical Report 055

| | |
|------------------------------|---|
| DESA-CHEM PSF | Annex B1 of European Technical Assessment ETA-15/0286 |
| Intended use - Specification | |

Table B1: Installation data

| Threaded rod And rebar | Size | Nominal drill bit diameter d _o (mm) | Steel Brush | Cleaning methods | |
|---|------|---|---|---------------------------------|----------------------------------|
| | | | | Manual cleaning (MAC) | Compressed air cleaning (CAC) |
| | |  |  | Manual cleaning (MAC) | Compressed air cleaning (CAC) |
|  | M8 | 10 | 12mm | Yes ... h _{ef} ≤ 80 mm | Yes |
| | M10 | 12 | 14mm | Yes ... h _{ef} ≤ 100mm | |
| | M12 | 14 | 16mm | Yes ... h _{ef} ≤ 120mm | |
| | M16 | 18 | 20mm | Yes ... h _{ef} ≤ 160mm | |

Manual Cleaning (MAC):

Desa hand pump recommended for Blowing out bore holes with diameters d_o ≤ 24 mm and bore holes depth h_o ≤ 10d



Compressed air cleaning (CAC):

Recommended air nozzle with an Orifice opening of minimum 3,5mm in diameter.



Table B2: Minimum curing time

| Minimum base material temperature C° | Gel time (working time) In dry/wet concrete | Cure time |
|--|--|-----------|
| -5°C ≤ T _{base material} < 0°C | 40 min | 180 min |
| 0°C ≤ T _{base material} < 10°C | 20 min | 90 min |
| 10°C ≤ T _{base material} < 20°C | 9 min | 60 min |
| 20°C ≤ T _{base material} < 30°C | 5 min | 30 min |
| 30°C ≤ T _{base material} ≤ 40°C | 3 min | 20 min |

The temperature of the bond material must be ≥ 20°C

| | |
|----------------------|---|
| DESA-CHEM PSF | Annex B2 of European Technical Assessment ETA-15/0286 |
| Intended use - data | |

Table B3 - parameters: drilling, hole cleaning and installation

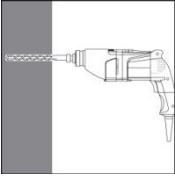
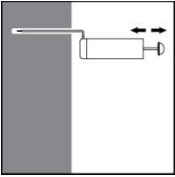
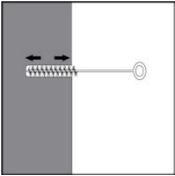
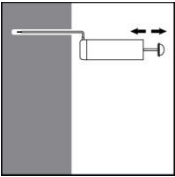
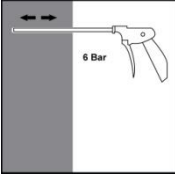
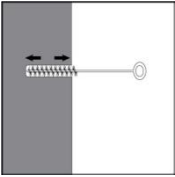
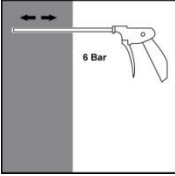
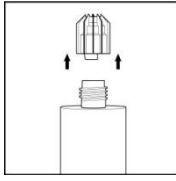
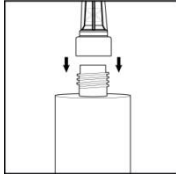
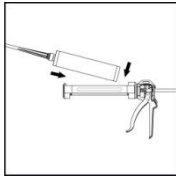
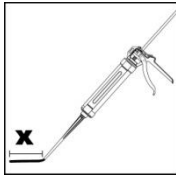
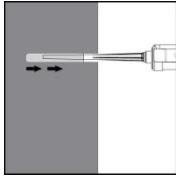
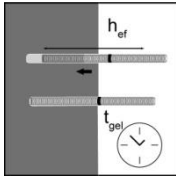
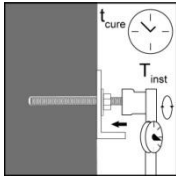
| Bore hole drilling | | |
|---|------------|--|
|  | | Drill hole in the substrate to the required embedment depth using the appropriately sized carbide drill bit. |
| Bore hole cleaning Just before setting an anchor, the bore hole must be free of dust and debris. | | |
| a) Manual air cleaning (MAC) for all bore hole diameters $d_o \leq 24\text{mm}$ and bore hole depth $h_o \leq 10d$ | | |
|  | X 4 | The Desa manual pump shall be used for blowing out bore holes up to diameters $d_o \leq 24\text{mm}$ and embedment depths up to $h_{ef} \leq 10d$. Blow out at least 4 times from the back of the bore hole, using an extension if needed. |
|  | X 4 | Brush 4 times with the specified brush size (see Table B1) by inserting the Desa steel brush to the back of the hole (if needed with an extension) in a twisting motion and removing it. |
|  | X 4 | Blow out again with manual pump at least 4 times. |
| b) Compressed air cleaning (CAC) for all bore hole diameters d_o and all bore hole depths | | |
|  | X 2 | Blow 2 times from the back of the hole (if needed with a nozzle extension) over the whole length with oil-free compressed air (min. 6 bar at 6 m³/h). |
|  | X 2 | Brush 2 times with the specified brush size (see Table B1) by inserting the Desa steel brush to the back of the hole (if needed with an extension) in a twisting motion and removing it. |
|  | X 2 | Blow out again with compressed air at least 2 times. |
| DESA-CHEM PSF | | Annex B3 of European Technical Assessment ETA-15/0286 |
| Procedure (1) | | |

Table B4 - parameters: drilling, hole cleaning and installation

| | |
|---|--|
|  | <p>Remove the threaded cap from the cartridge.</p> |
|  | <p>Tightly attach the mixing nozzle. Do not modify the mixer in any way. Make sure the mixing element is inside the mixer. Use only the supplied mixer.</p> |
|  | <p>Insert the cartridge into the Desa dispenser gun.</p> |
|  | <p>Discard the initial trigger pulls of adhesive. Depending on the size of the cartridge, an initial amount of adhesive mix must be discarded.</p> <p>Discard quantities are - 5cm for between 150ml, 300ml & 400ml Foil Pack - 10cm for all other cartridges</p> |
|  | <p>Inject the adhesive starting at the back of the hole, slowly withdrawing the mixer with each trigger pull.</p> <p>Fill holes approximately 2/3 full, to ensure that the annular gap between the anchor and the concrete is completely filled with adhesive along the embedment depth.</p> |
|  | <p>Before use, verify that the threaded rod is dry and free of contaminants.</p> <p>Install the threaded rod to the required embedment depth during the open gel time t_{gel} has elapsed. The working time t_{gel} is given in Table B2.</p> |
|  | <p>The anchor can be loaded after the required curing time t_{cure} (see Table B2). The applied torque shall not exceed the values T_{max} given in Table A1.</p> |

DESA-CHEM PSF

Procedure (2)

Annex B4

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Table C1: Design method A, characteristic tension load values

| Desa-Chem PSF with threaded rods | | | M8 | M10 | M12 | M16 |
|---|---------------------------------|----------------------|------------------------|-------------------|-----|-----|
| Steel failure | | | | | | |
| Characteristic resistance, class 5.8 | $N_{RK,s}$ | [kN] | 18 | 29 | 42 | 79 |
| Characteristic resistance, class 8.8 | $N_{RK,s}$ | [kN] | 29 | 46 | 67 | 126 |
| Partial safety factor | $\gamma_{Ms,N}^{1)}$ | [-] | 1,5 | | | |
| Characteristic resistance, class 10.9 | $N_{RK,s}$ | [kN] | 36 | 58 | 84 | 157 |
| Partial safety factor | $\gamma_{Ms,N}^{1)}$ | [-] | 1,4 | | | |
| Characteristic resistance, A4-70 | $N_{RK,s}$ | [kN] | 26 | 41 | 59 | 110 |
| Partial safety factor | $\gamma_{Ms,N}^{1)}$ | [-] | 1,87 | | | |
| Characteristic resistance, HCR | $N_{RK,s}$ | [kN] | 29 | 46 | 67 | 126 |
| Partial safety factor | $\gamma_{Ms,N}^{1)}$ | [-] | 1,5 | | | |
| Combined Pull-out and Concrete cone failure ²⁾ | | | | | | |
| Diameter of threaded rod | d | [mm] | 8 | 10 | 12 | 16 |
| Characteristic bond resistance in non-cracked concrete C20/25 – dry or wet concrete | | | | | | |
| Temperature range a ³⁾ : 40°C/24°C | $\tau_{RK,ucr}$ | [N/mm ²] | 6,0 | 5,5 | 5,0 | 4,0 |
| Temperature range b ³⁾ : 80°C/50°C | $\tau_{RK,ucr}$ | [N/mm ²] | 4,5 | 4,0 | 3,5 | 3,0 |
| Partial safety factor – dry or wet concrete | $\gamma_{Mp}=\gamma_{Mc}^{1)}$ | [-] | 2,1 ⁵⁾ | 1,8 ⁶⁾ | | |
| Characteristic bond resistance in non-cracked concrete C20/25 – flooded holes | | | | | | |
| Temperature range a ³⁾ : 40°C/24°C | $\tau_{RK,ucr}$ | [N/mm ²] | 5,0 | 4,0 | 4,0 | 3,5 |
| Temperature range lb ³⁾ : 80°C/50°C | $\tau_{RK,ucr}$ | [N/mm ²] | 3,5 | 3,0 | 3,0 | 3,0 |
| Partial safety factor – flooded holes | $\gamma_{Mp}=\gamma_{Mc}^{1)}$ | [-] | 2,1 ⁵⁾ | | | |
| Increasing factor for $\tau_{RK,ucr}$ in non-cracked concrete | ψ_c | C30/37 | 1,08 | | | |
| | | C40/50 | 1,15 | | | |
| | | C50/60 | 1,19 | | | |
| Splitting failure²⁾ | | | | | | |
| Edge distance $c_{cr,sp}$ [mm] for | $h / h_{ef}^{4)} \geq 2,0$ | | 1,0 h_{ef} | | | |
| | $2,0 > h / h_{ef}^{4)} > 1,3$ | | $5,28 h_{ef} - 2,14 h$ | | | |
| | $h / h_{ef}^{4)} \leq 1,3$ | | 2,5 h_{ef} | | | |
| Spacing | $s_{cr,sp}$ | [mm] | 2 $c_{cr,sp}$ | | | |
| Partial safety factor – dry or wet concrete | $\gamma_{Msp}=\gamma_{Mc}^{1)}$ | [-] | 2,1 ⁵⁾ | 1,8 ⁶⁾ | | |
| Partial safety factor – flooded holes | $\gamma_{Msp}=\gamma_{Mc}^{1)}$ | [-] | 2,1 ⁵⁾ | | | |

¹⁾ In absence of national regulations

²⁾ Calculation of concrete and splitting, see annex B1

³⁾ Explanations, see annex B1

⁴⁾ h concrete member thickness, h_{ef} effective anchorage depth

⁵⁾ The partial safety factor $\gamma_{inst}=1,4$ included

⁶⁾ The partial safety factor $\gamma_{inst}=1,2$ included

DESA-CHEM PSF

Performance for static and quasi-static loads: Resistances

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Table C2: Displacements under tension load

| Desa-Chem PSF with threaded rods | | | M8 | M10 | M12 | M16 |
|--|--------------------|------|------|------|------|------|
| Temperature range a⁷⁾: 40°C / 24°C | | | | | | |
| Admissible service load | F | [kN] | 9,0 | 10,4 | 13,2 | 16,1 |
| Displacement | δ_{N0} | [mm] | 0,22 | 0,21 | 0,19 | 0,25 |
| Displacement | $\delta_{N\infty}$ | [mm] | - | - | 0,29 | - |
| Temperature range b⁷⁾: 80°C / 50°C | | | | | | |
| Admissible service load | F | [kN] | 6,8 | 7,5 | 9,2 | 12,1 |
| Displacement | δ_{N0} | [mm] | 0,35 | 0,33 | 0,30 | 0,40 |
| Displacement | $\delta_{N\infty}$ | [mm] | - | - | 0,38 | - |

⁷⁾ Explanation see annex B1

DESA-CHEM PSF

Performance for static and quasi-static loads: Displacements

Annex C2
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Table C3: Design method A, Characteristic shear load values

| Desa-Chem PSF with threaded rods | | | M8 | M10 | M12 | M16 |
|---|------------------------|--|-------------------|-----|-------------------|------|
| Steel failure without lever arm | | | | | | |
| Characteristic resistance, class 5.8 | $V_{Rk,s}$ [kN] | | 9 | 15 | 21 | 39 |
| Characteristic resistance, class 8.8 | $V_{Rk,s}$ [kN] | | 15 | 23 | 34 | 63 |
| Characteristic resistance, class 10.9 | $V_{Rk,s}$ [kN] | | 18 | 29 | 42 | 79 |
| Characteristic resistance, A4-70 | $V_{Rk,s}$ [kN] | | 13 | 20 | 30 | 55 |
| Characteristic resistance, HCR | $V_{Rk,s}$ [kN] | | 15 | 23 | 34 | 62,8 |
| Steel failure with lever arm | | | | | | |
| Characteristic resistance, class 5.8 | $M^0_{Rk,s}$ [Nm] | | 19 | 37 | 66 | 167 |
| Characteristic resistance, class 8.8 | $M^0_{Rk,s}$ [Nm] | | 30 | 60 | 105 | 266 |
| Characteristic resistance, class 10.9 | $M^0_{Rk,s}$ [Nm] | | 38 | 75 | 131 | 333 |
| Characteristic resistance, A4-70 | $M^0_{Rk,s}$ [Nm] | | 26 | 53 | 92 | 233 |
| Characteristic resistance, HCR | $M^0_{Rk,s}$ [Nm] | | 30 | 60 | 105 | 266 |
| Partial safety factor steel failure | | | | | | |
| grade 5.8 or 8.8 | $\gamma_{Ms,V^1)}$ [-] | | | | 1,25 | |
| grade 10.9 | $\gamma_{Ms,V^1)}$ [-] | | | | 1,50 | |
| A4-70 | $\gamma_{Ms,V^1)}$ [-] | | | | 1,56 | |
| HCR | $\gamma_{Ms,V^1)}$ [-] | | | | 1,25 | |
| Concrete pryout failure | | | | | | |
| Factor in equation (27) of CEN/TS 1992-4-5, 6.3.3 | k_3 [-] | | | | 2,0 | |
| Partial safety factor | $\gamma_{Mc}^{1)}$ [-] | | 1,5 ⁵⁾ | | 1,5 ⁶⁾ | |
| Concrete edge failure | | | | | | |
| Partial safety factor | $\gamma_{Mc}^{1)}$ [-] | | 1,5 ⁵⁾ | | 1,5 ⁶⁾ | |

¹⁾ In absence of national regulations

⁵⁾ The partial safety factor $\gamma_{inst}=1,0$ included

⁶⁾ The partial safety factor $\gamma_{inst}=1,0$ included.

Table C4: Displacements under shear load

| Desa-Chem PSF with threaded rods | | | M8 | M10 | M12 | M16 |
|----------------------------------|----------------------------|--|------|------|------|------|
| Displacement ⁸⁾ | δ_{V0} [mm/kN] | | 0,06 | 0,06 | 0,05 | 0,04 |
| Displacement ⁸⁾ | $\delta_{V\infty}$ [mm/kN] | | 0,09 | 0,08 | 0,08 | 0,06 |

⁸⁾ Calculation of displacement under service load: V_{sd} design value of shear load

Displacement under short term loading = $\delta_{V0} \cdot V_{sd}/1,4$

Displacement under short term loading = $\delta_{V\infty} \cdot V_{sd}/1,4$

DESA-CHEM PSF

Performance for static and quasi-static loads: Displacements

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