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Concrete anchorages - reinforcing bar applications

Products listed in the following table are approved for use on MnDOT projects unless otherwise indicated. Products prohibited from use in sustained tension applications may be used for applications which are not considered to carry sustained tension loads. Adhesives permitted for use with sustained tension applications may be used for all applications (sustained or non-sustained tension). All bar types and hole types marked with "approved" below are approved for use under the conditions stated in the table. All anchorages must be field tested as required by the contract regardless of nominal pullout requirements. Refer to project specifications and plans to determine if the anchors are in sustained tension.

Permitted sustained tension applications are specified in [MnDOT Technical Memorandum 18-11-B-01 \(PDF\)](#).

Those who use any of these products are responsible to handle, store, use, and dispose of excess material in accordance with all manufacturer's and Safety Data Sheet (SDS) recommendations.

For use in sustained tension applications

| Product | Manufacturer | Approval expiration | Rebar Designations | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-----------|--------------|---------------------|--|---------------------------|-------------------------|
| AC200+ | DEWALT | 3/15/2024 | Approved for Rebar Designations #4 through #10 | Approved | Not approved |
| Pure 50+ | DEWALT | 5/12/2024 | Approved for Rebar Designations #4 through #10 | Approved | Not approved |
| Pure 110+ | DEWALT | 5/12/2024 | Approved for Rebar Designations #4 through #10 | Approved | Not approved |

Prohibited from use in sustained tension applications

| Product | Manufacturer | Approval expiration | Rebar Designations | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-------------|--------------|---------------------|---|---------------------------|-------------------------|
| AC100+ Gold | DEWALT | 3/15/2024 | Approved for Rebar Designations #4 through #9 | Approved | Not approved |

Guidance

- [Qualification process \(PDF\)](#)

Concrete anchorages

- [Reinforcing bar applications](#)
- [Threaded rod applications](#)

Contact

- [Joe Black](#)
Bridge Office
651-366-4485

All information submitted as part of the application process will be considered public data. Do not submit trade secret information.

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Concrete anchorages - threaded rod applications

Products listed in the following table are approved for use on MnDOT projects unless otherwise indicated. Products prohibited from use in sustained tension applications may be used for applications which are not considered to carry sustained tension loads. Adhesives permitted for use with sustained tension applications may be used for all applications (sustained or non-sustained tension). All bar types and hole types marked with "approved" below are approved for use under the conditions stated in the table. All anchorages must be field tested as required by the contract regardless of nominal pullout requirements. Refer to project specifications and plans to determine if the anchors are in sustained tension.

Permitted sustained tension applications are specified in [MnDOT Technical Memorandum 18-11-B-01 \(PDF\)](#).

Those who use any of these products are responsible to handle, store, use, and dispose of excess material in accordance with all manufacturer's and Safety Data Sheet (SDS) recommendations.

Min. uncracked characteristic bond strength of 1 KSI and min. cracked characteristic bond strength of 0.5

For use in sustained tension applications

| Product | Manufacturer | Approval expiration | Threaded rod diameters | Hole type: Hammer-drilled | Hole type: Core-drilled |
|----------|--------------|---------------------|---|---------------------------|-------------------------|
| Pure 50+ | DEWALT | 5/12/2024 | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved | Not approved |

Prohibited from use in sustained tension applications

| Product | Manufacturer | Approval expiration | Threaded rod diameters | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-------------|--------------|---------------------|--|---------------------------|-------------------------|
| AC100+ Gold | DEWALT | 3/15/2024 | Approved for 1/2", 5/8", 3/4", 7/8", 1"; not approved for 1 1/4" | Approved | Not approved |

Min. uncracked characteristic bond strength of 1.5 KSI and min. cracked characteristic bond strength of 0.75

For use in sustained tension applications

| Product | Manufacturer | Approval expiration | Threaded rod diameters | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-----------|--------------|---------------------|---|---------------------------|-------------------------|
| AC200+ | DEWALT | 3/15/2024 | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved | Not approved |
| Pure 110+ | DEWALT | 5/12/2024 | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved | Not approved |

Prohibited from use in sustained tension applications

| Product | Manufacturer | Approval expiration | Threaded rod diameters | Hole type: Hammer-drilled | Hole type: Core-drilled |
|----------|--------------|---------------------|--|---------------------------|-------------------------|
| Pure 50+ | DEWALT | 5/12/2024 | Approved for 1/2", 5/8"; not approved for 3/4", 7/8", 1", 1 1/4" | Approved | Not approved |