GUARDRAIL POST ANCHORS TYPE 1

USE FOR THICKNESS T OF 8 INCHES OR MORE AND MINIMUM CONCRETE STRENGTH F'_c OF 3,500 PSI

GUARDRAIL POST ANCHORS TYPE 2

USE FOR THICKNESS T OF 10 INCHES OR MORE AND MINIMUM CONCRETE STRENGTH F'_c OF 4,000 PSI

GUARDRAIL POST ANCHORAGE SYSTEM

SPECIFICATIONS

1. Use for posts with embedment less than or equal to 9". Posts shall be vertical before threading. For posts with embedment more than 9", posts shall be vertical after threading.

2. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

3. Steel shims may be used between plates and slab where required for alignment. Steel shims specify No. 6 flat washers. Steel shims shall be fully threaded. Label each post (p1, p2, etc.) in the structure plans for the chosen anchor type. Show details and pertinent notes found on this Standard on the structure plans for the chosen anchor type. Short location of posts and spacing along c/l of post in plan view of structure plans. Each post is to be placed in a taut position. Check criteria to see if post anchorage system is required for alignment. The alignment of the guardrail system shall not interfere with the alignment of the roadway design plan.

4. Use for posts with embedment less than or equal to 9". Posts shall be vertical after threading. For posts with embedment more than 9", posts shall be vertical before threading.

5. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

6. Steel shims may be used between plates and slab where required for alignment. Steel shims specify No. 6 flat washers. Steel shims shall be fully threaded. Label each post (p1, p2, etc.) in the structure plans for the chosen anchor type. Show details and pertinent notes found on this Standard on the structure plans for the chosen anchor type. Short location of posts and spacing along c/l of post in plan view of structure plans. Each post is to be placed in a taut position. Check criteria to see if post anchorage system is required for alignment. The alignment of the guardrail system shall not interfere with the alignment of the roadway design plan.

7. Use for posts with embedment less than or equal to 9". Posts shall be vertical after threading. For posts with embedment more than 9", posts shall be vertical before threading.

8. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

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10. Use for posts with embedment less than or equal to 9". Posts shall be vertical after threading. For posts with embedment more than 9", posts shall be vertical before threading.

11. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

12. Steel shims may be used between plates and slab where required for alignment. Steel shims specify No. 6 flat washers. Steel shims shall be fully threaded. Label each post (p1, p2, etc.) in the structure plans for the chosen anchor type. Show details and pertinent notes found on this Standard on the structure plans for the chosen anchor type. Short location of posts and spacing along c/l of post in plan view of structure plans. Each post is to be placed in a taut position. Check criteria to see if post anchorage system is required for alignment. The alignment of the guardrail system shall not interfere with the alignment of the roadway design plan.

13. Use for posts with embedment less than or equal to 9". Posts shall be vertical after threading. For posts with embedment more than 9", posts shall be vertical before threading.

14. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

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16. Use for posts with embedment less than or equal to 9". Posts shall be vertical after threading. For posts with embedment more than 9", posts shall be vertical before threading.

17. Post base plate and bottom plates if required shall be flat with all surfaces smooth and free from warps or obstructions. All material used in posts and plates shall conform to the requirements of ASTM A709 Grade 50 or ASTM A706 Grade 50s. All material used in posts and plates shall be made from material conforming to ASTM A709 Grade 50 or ASTM A706 Grade 50s. Post spacing is 3'-1" per FDM SDD 14 B 51-1. See FDM 14 B 51-1 for minimum clearances from edges or face of the structure. The top slab must be flat with all surfaces smooth and free from warps or obstructions. For type 2 anchorage, use for thickness T of 8 inches or more and minimum concrete strength f'_c of 3,500 psi.

18. Steel shims may be used between plates and slab where required for alignment. Steel shims specify No. 6 flat washers. Steel shims shall be fully threaded. Label each post (p1, p2, etc.) in the structure plans for the chosen anchor type. Show details and pertinent notes found on this Standard on the structure plans for the chosen anchor type. Short location of posts and spacing along c/l of post in plan view of structure plans. Each post is to be placed in a taut position. Check criteria to see if post anchorage system is required for alignment. The alignment of the guardrail system shall not interfere with the alignment of the roadway design plan.