

CODE

COMMENTARY

26.13.1.3 Inspection of concrete placement and reinforcement for special moment frames, boundary elements of special structural walls, coupling beams, and precast concrete diaphragms assigned to SDC C, D, E, or F using moderate or high-deformability connections, shall be performed under the supervision of the licensed design professional responsible for the design, by a person under the supervision of a licensed design professional with demonstrated capability to supervise inspection of these elements or by a certified inspector. Installation tolerances of precast concrete diaphragm connections shall be inspected for compliance with **ACI 550.5M**.

26.13.1.4 Inspection of reinforcement welding shall be performed by a qualified welding inspector in accordance with AWS D1.4. The weldability of reinforcement other than **ASTM A706** shall be confirmed by documentation in accordance with 26.6.4.

26.13.1.5 Inspection of the installation of post-installed expansion (torque-controlled and displacement-controlled), screw, and undercut anchors shall be performed by a certified inspector or a qualified inspector specifically approved for that purpose by the Licensed Design Professional and the building official.

26.13.1.6 The installation inspection of all adhesive anchors shall be performed by a certified inspector.

suppliers, and the building official to allow timely identification of compliance or the need for corrective action.

Inspection responsibility and the degree of inspection required should be set forth in the contracts between the owner, architect, engineer, contractor, and inspector. Adequate resources should be provided to properly perform and oversee the inspection.

R26.13.1.3 The purpose of this requirement is to verify that the detailing required in special moment frames and special structural walls is properly executed through inspection by personnel who are certified to inspect these elements. Certification of inspectors should be acceptable to the jurisdiction enforcing the general building code and as described in R26.13.1.2.

Continuous construction inspection is needed for completion of connections for precast concrete diaphragms designed in accordance with **18.12.1.1** to verify the tolerances specified in **ACI 550.5M** are met.

R26.13.1.5 The International Building Code (**IBC 2018**) requires inspection of all post-installed anchors. For post-installed expansion (torque-controlled and displacement-controlled), screw, and undercut anchors, monitoring of installation by a certified inspector is recommended to ensure required installation procedures are followed. Certification is established through an independent assessment such as the ACI Post-Installed Concrete Anchor Installation Inspector program (**ACI CPP 681.2-19**), or similar program with equivalent requirements.

R26.13.1.6 The installation of all adhesive anchors requires inspection by a certified inspector. Certification is established through an independent assessment such as the ACI Adhesive Anchor Installation Inspector program (**ACI CPP 681.1-17**), or similar program with equivalent requirements.

The installation of adhesive anchors identified in the construction documents as resisting sustained tensile loads in horizontal or upwardly inclined orientations (clockwise from 9 o'clock to 3 o'clock) poses challenges to the installer and requires particular attention to execution quality as well as an enhanced level of oversight. It is required that these anchor installations be inspected by a certified inspector who is continuously present when and where the installations are being performed.

26.13.2 Inspection reports

R26.13.2 Inspection reports