

Exhibit 16-T1 Materials [Requiring a Certificate of Compliance per Caltrans Standard Specifications](#)

Table 6-2.3 Materials Accepted by Certificate of Compliance (1 of 7)

Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Asphalt	
Asphaltic emulsion	Certificate of compliance must include the following: <ol style="list-style-type: none"> 1. Shipment number and shipment date. 2. Source refinery, consignee, and destination. 3. Type and description of material with specific gravity and quantity. 4. Contract or purchase order number. 5. Signature by the manufacturer of the material and a statement that the material complies with the contract.
Asbestos cement pipe	
Asbestos sheet packing	
Asphalt modifier	Test results required with each truck load.
Asphalt rubber joint sealant	A certified test report of the results for the required tests performed within 12 months before the proposed use.
Backer rods	Must include manufacturer's statement of compatibility with the joint sealant to be used.
Barbed Wire	
Blast cleaning material	
Bonding Material	
Brick	
Cable-type restrainers Lock nuts	Certificate of compliance must be submitted with a copy of each required test report.
Cast iron pipe	
Cast iron manhole rings and covers	
Chemical adhesive for bonding tie bars and dowel bars in concrete pavement	
Chemical adhesive for structures	Certificate of compliance must state compliance with ICBO AC 58 and Caltrans. Augmentation/Revisions to ICBO AC 58.
Concrete Admixture	Certificate of compliance from the manufacturer must certify that the admixture furnished is the same as that previously authorized or the authorized materials list.
Concrete Cementitious material	Certificate of compliance must include the source name and location. If the cementitious material is delivered directly to the job site, the certificate of compliance must be signed by the cementitious material supplier. If the cementitious material is used in ready-mixed concrete, the certificate of compliance must be signed by the concrete manufacturer. If blended cement is used, the certificate of compliance must include a statement signed by the blended cement supplier that shows the actual percentage of SCM, by weight, in the blend.
Concrete Curing compound	Certificate of compliance must include: <ol style="list-style-type: none"> 1. Test results for the tests specified in Section 90-1.01D(6) [90-7.01B] of the <i>Standard Specifications</i>. 2. Certification that the material was tested within 12 months before use.
Concrete Minor concrete	Before placing minor concrete from a source not previously used on the contract, a certificate of compliance stating that the minor concrete to be furnished complies with the contract requirements, including the specified minimum cementitious material content.
Ceramic tile	
Chain link fencing and railing	Certificate required for protective coating system.
Concrete anchorage devices	

Table 6-2.3 Materials Accepted by Certificate of Compliance (2 of 7)

Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Concrete pipe Circular reinforced direct design method	Certificate of compliance must: 1. Be signed by the manufacturer's quality control representative. 2. State that all materials and workmanship comply with the specifications and authorized shop drawings.
Copper pipe	
Corrugated metal pipe	
Crack sealant	Certificate of compliance must include: 1. Manufacturer's name 2. Production location 3. Product brand or trade name 4. Product designation 5. Batch or lot number 6. Crack treatment material type 7. Contractor or subcontractor name 8. Contract number 9. Lot size 10. Shipment date 11. Manufacturer's signature
Crash cushions	
Crumb rubber modifier	Test results required with each truck load.
Culvert markers	
Delineators	Certificate of compliance required for: 1. Metal target plates 2. Enamel coating 3. Retroreflective sheeting
Dowel bar baskets	
Drop inlet grates and frames	
Drain tile	
Drip irrigation line	
Elastomeric Bearing Pads Plain	Certified test results for the elastomer.
Elastomeric Bearing Pads Steel-reinforced	Certified test results.
Electrical Battery back-up system	Certificates of compliance is required for: • External cabinet • Batteries
Electrical Conductor	
Electrical Conduit (galvanized and plastic)	
Electrical Equipment	
Electrical Pull boxes (concrete and plastic)	
Electrical Service cabinets	

Table 6-2.3 Materials Accepted by Certificate of Compliance (3 of 7)

Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Erosion control	Certificate of compliance is required for: <ul style="list-style-type: none"> • Straw • Fiber • RECP • Fasteners Certificate of compliance with attachments are required for: <ul style="list-style-type: none"> • Tackifier • Bonded fiber matrix • Polymer-stabilized fiber matrix Certificates of compliance attachments include: <ol style="list-style-type: none"> 1. Material Safety Data Sheet. 2. Product label. 3. List of applicable nonvisible pollutant indicators for soil amendment and stabilization products as shown in the table titled "Pollutant Testing Guidance Table" in the Caltrans Construction Site Monitoring Program Guidance Manual. 4. Report of acute and chronic toxicity tests on aquatic organisms conforming to EPA methods. 5. List of ingredients, including chemical formulation. 6. Properties of polyacrylamide in tackifier including (1) percent purity by weight, (2) percent active content, (3) average molecular weight, and (4) charge density.
Epoxy	
Epoxy powder coating for dowel bars and tie bars	
Expansion joint filler	
Fiberglass pipe	Certificate of compliance must be submitted with laboratory test results.
Gabions	If PVC coating is shown, a suitable UV resistance additive must be blended with the PVC and the additive must be shown on the certificate of compliance.
Geocomposite drain	Certificate of compliance must certify that the drain produces the specified flow rate. The certificate must be accompanied by a flow capability graph for the geocomposite drain showing flow rates and the externally applied pressures and hydraulic gradients. Verification must be by an authorized laboratory for the flow capability graph.
Geosynthetics	Test sample representing each lot and minimum average roll value.
Glass beads	
Glue laminated timbers and decking	
Guide markers	
Irrigation hose	
Irrigation pipe	Certificate of compliance required for: <ul style="list-style-type: none"> • Polyethylene pipe. • Plastic pipe supply line for pipe with wall thickness of the bell less than the specified minimum wall thickness of the pipe.
Joint filler material	
Joint seals (Type A and AL)	Certified test report for each batch of sealant.

Table 6-2.3 Materials Accepted by Certificate of Compliance (4 of 7)

Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Joint seal (Type B)	Certificate of compliance required for: <ul style="list-style-type: none"> Elastomeric joint seal Lubricant-adhesive Certificate of compliance must be submitted with certified test report for each lot of elastomeric joint seal and lubricant-adhesive. Test reports must include the seal movement rating, the manufacturer's minimum uncompressed width, and test results.
Joint seal assemblies with a movement rating of 4 inches or less	For alternative joint seal assemblies, a certificate of compliance must be submitted for each shipment of joint seal materials. The certificate must state that the materials and fabrication involved comply with the specifications and the data submitted in obtaining the authorization for the alternative joint seal assembly.
Joint seal assemblies with a movement rating over 4 inches	
Lime	Certificate of compliance must include a statement certifying the lime furnished is the same as on the authorized material source list.
Machine spiral wound PVC pipeliners	Certificate of compliance for each reel of PVC strip must include: <ol style="list-style-type: none"> Name of manufacturer Plant location Date of manufacture and shift Cell classification Unit mass Average pipeliner stiffness and profile type
Markers	Certificate of compliance required for: <ol style="list-style-type: none"> Metal target plates Enamel coating Retroreflective sheeting
Masonry block	Certificate of compliance required for: <ol style="list-style-type: none"> Concrete masonry units Aggregate for grout Grout
Micro surfacing emulsion	
Mulch	
Open steel flooring and grating	
Overside drains	Certificate of compliance based on steel materials, aluminum materials or plastic materials.
Parking area seal material	
Pavement markers	
Pavement marking Paint or thermoplastic	
Plastic lumber	Laboratory test report.
Plastic traffic drums	
Plastic pipe for drainage	Certificate of compliance must include average pipe stiffness, resin material cell classification, and date of manufacture. For corrugated polyethylene pipe, manufacturer's copy of plant audits and test results from the National Transportation Products Evaluation Program for the current cycle of testing for each pipe diameter furnished.
Portable changeable message sign	
Precast concrete Cementitious material used in precast concrete products	Certificate of compliance must be signed by the precast concrete product manufacturer.

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Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Precast concrete Box culverts	Certificate of compliance must be signed by the manufacturer's QC representative for each shipment.
Precast raised traffic bars	
Preformed compression seal for concrete pavement	
Preformed membrane sheet	Must include type of sheet and the conditioner or primer application rates.
Rapid strength concrete	Certificate of compliance is required for each delivery of aggregate, cementitious material, and admixtures used for calibration tests. The certificate of compliance must state that the source of the materials used for the calibration tests is the same source as to be used for the planned work.
Reinforcement	You may request that the contractor submits with certificate of compliance: 1. Copy of the certified mill test report for each heat and size of reinforcing steel showing physical and chemical analysis. 2. Two copies of a list of all reinforcement before starting reinforcement placement.
Reinforcement Epoxy-coated	Certificate of compliance for each shipment of epoxy-coated reinforcement must be submitted with: 1. Certification that the coated reinforcement complies with ASTM A 775/A 775M for bar reinforcement or ASTM A 884/A 884M, Class A, Type 1, for wire reinforcement 2. All certifications specified in ASTM A 775/A 775M for bar reinforcement or ASTM A 884/A 884M for wire reinforcement.
Reinforcement Epoxy-coated prefabricated reinforcement	Certificate of compliance for each shipment of epoxy-coated prefabricated reinforcement must be submitted with: 1. Certification that the coated reinforcement complies with ASTM A 934/A 934M for bar reinforcement or ASTM A 884/A 884M Class A, Type 2 for wire reinforcement. 2. All certifications specified in ASTM A 934/A 934M for bar reinforcement or ASTM A 884/A 884M for wire reinforcement.
Reinforcement Epoxy-coating patching materials	Certificate of compliance for the patching material must include certification that the patching material is compatible with the epoxy powder to be used.
Reinforcement Headed bar	Certificate of compliance for each shipment of headed bar reinforcement must be submitted with: 1. Mill test reports for the: 1.1. Bar reinforcement 1.2. Head material 2. Production test reports 3. Daily production logs
Reinforcement Splicing	Certificate of compliance for each shipment of splice material must be submitted with: 1. Type or series identification of the splice material, including tracking information for traceability. 2. Grade and size number of reinforcement to be spliced. 3. Statement that the splice material complies with the type of mechanical splice on the authorized material list. 4. For resistance-butt-welded material: 4.1. Heat number 4.2. Lot number 4.3. Mill certificates

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Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Sheet metal	
Sign panels	Certificates of compliance required for: <ol style="list-style-type: none"> 1. Aluminum sheeting 2. Retroreflective sheeting 3. Screened-process colors 4. Nonreflective, opaque, black film 5. Protective-overlay film
Silicone joint sealant	A certified test report of the results for the required tests performed within 12 months before the proposed use.
Slotted edge drain	
Snow poles	
Snow plow deflectors polyethylene material	
Soil amendment	
Steel crib wall	
Sheet metal	
Sign panels	Certificates of compliance required for: <ol style="list-style-type: none"> 1. Aluminum sheeting 2. Retroreflective sheeting 3. Screened-process colors 4. Nonreflective, opaque, black film 5. Protective-overlay film
Silicone joint sealant	A certified test report of the results for the required tests performed within 12 months before the proposed use.
Slotted edge drain	
Snow poles	
Snow plow deflectors polyethylene material	
Soil amendment	
Steel crib wall	
Steel pipe piles	The certificate of compliance must be signed by the plant's QC representative. The QC representative must be on record with the Department's Office of Structural Materials. certificate of compliance must include: <ol style="list-style-type: none"> 1. Statement that all materials and workmanship incorporated in the work and all required tests and inspections of this work have been performed as described. 2. Certified mill test reports for each heat number of steel pipe piles being furnished. 3. Test reports for tensile, chemical, and any specified non-destructive test (NDT). 4. Test reports must be based on test samples taken from the base metal, steel, coil or from the manufactured or fabricated piles. 5. Calculated carbon equivalent. The carbon equivalent may be shown on the mill test report.
Steel sheet piling	
Structural plate culverts	Certificate of compliance required for: <ol style="list-style-type: none"> 1. Structural metal plate pipe 2. Arches 3. Pipe arches 4. Metal liner plate pipe

Table 6-2.3 Materials Accepted by Certificate of Compliance (7 of 7)

Material/Product	Remarks (Including Requirements for Additional Back-Up Information Required with Certificate of Compliance)
Structural shape steel piles	Certificate of compliance must include: 1. Test reports for tensile, chemical, and any specified NDT. Test samples must be taken from the base metal, steel, or from the manufactured or fabricated pile. 2. A statement that all materials and workmanship incorporated in the work and all required tests and inspections of this work have been performed as described.
Structural composite lumber used in falsework	
Structural steel thermal spray coat Wire feedstock	
Styrofoam filler	
Subsurface drain	
Temporary concrete washout	Certificate of compliance required for: • Gravel-filled bag • Plastic liner
Temporary fence (Type ESA)	Certificate of compliance required for: • High visibility fabric • Safety caps for metal posts
Temporary linear sediment barrier	Certificate of compliance required for: • Fiber roll • Safety cap for metal posts • Silt fence fabric • Sediment filter bag • Foam barrier • Gravel-filled bag fabric
Temporary railing (Type K)	
Thermoplastic	
Tie bars	
Tie bar baskets	
Timber products (treated and untreated)	Certificate of compliance for timber and lumber must state the species of the material to be shipped and include a certified grading report. If treated, certified treating report.
Threaded tie bar splice couplers	
Traffic stripe Paint or thermoplastic	
Turf sod	
Underdrains	Certificate of compliance required for: • Type of pipe • Tubing • Fitting
Waterproofing fabric	
Waterstop	Certificate of compliance for waterstop material must state compliance with paragraph 6 of Army Corps of Engineers CRD-C 572.
Welded wire fabric	
Wire mesh fencing	