

## AUTHORIZED CEMENTITIOUS MATERIALS FOR USE IN CONCRETE

| Material Category | Material                      | Suppliers Name                               | Product Name                     | Source Name                           | Source Location        | Relevant Spec |
|-------------------|-------------------------------|--|----------------------------------|---------------------------------------|------------------------|---------------|
| Blended Cement    | Type IS Blended Cement        | Lafarge North America                        | MaxCem                           | Seattle Plant                         | Seattle, WA            | AASHTO M 240  |
| Blended Cement    | Type IP Blended Cement        | Nevada Cement Company                        | Fernley Type IP                  | Fernley Plant                         | Fernley, NV            | AASHTO M 240  |
| Blended Cement    | Type IP Blended Cement        | Salt River Materials Group -- Phoenix Cement | Clarkdale Type IP                | Clarkdale, Arizona Plant              | Clarkdale, AZ          | AASHTO M 240  |
| Cement            | Type II/V Portland Cement     | CalPortland                                  | Mojave Type II/V                 | Mojave Plant                          | Mojave, CA             | ASTM C 150    |
| Cement            | Type III Portland Cement      | CalPortland                                  | Mojave Type III                  | Mojave Plant                          | Mojave, CA             | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | CalPortland                                  | Nanjing Type II/V                | Nanjing Plant                         | Nanjing, -- China      | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | CalPortland                                  | Oro Grande Type II/V             | Oro Grande Plant                      | Oro Grande, CA         | ASTM C 150    |
| Cement            | Type III Portland Cement      | CalPortland                                  | Oro Grande Type III              | Oro Grande Plant                      | Oro Grande, CA         | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | CalPortland                                  | Rillito Type II/V                | Rillito Plant                         | Rillito, CA            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | CalPortland                                  | Rillito Type II/V Extra          | Rillito Plant                         | Rillito, CA            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | CEMEX  | Victorville Type II/V            | Victorville                           | Victorville, CA        | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Drake Cement                                 | Paulden Type II/V                | Paulden Plant                         | Paulden, AZ            | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lafarge North America                        | Richmond Type II                 | Richmond                              | Richmond, BC Canada    | ASTM C 150    |
| Cement            | Type III Portland Cement      | Lafarge North America                        | Richmond Type III                | Richmond                              | Richmond, BC Canada    | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lehigh Heidelberg Cement Group               | Jidong Type II                   | Tangshan City, China                  | Port of Stockton, CA   | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lehigh Southwest Cement Company              | Conch Type II                    | Conch Cement Company                  | Yangzhou City, China   | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lehigh Southwest Cement Company              | CUCG Type II                     | China United Cement Rizhao Gangzhong  | Rizhao City, China     | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lehigh Southwest Cement Company              | Yadong Type II                   | Asia Cement, JiangXi Yadong Plant     | Jiujiang, China        | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Lehigh Southwest Cement Company              | Permanente Type II/V, Low Alkali | Permanente Plant                      | Cupertino, CA          | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Lehigh Southwest Cement Company              | Pronto Type II/V Low Alkali      | Permanente Plant                      | Cupertino, CA          | ASTM C 150    |
| Cement            | Type III Portland Cement      | Lehigh Southwest Cement Company              | Permanente Type III, Low Alkali  | Permanente Plant                      | Cupertino, CA          | ASTM C 150    |
| Cement            | Type II Portland Cement       | Lehigh Southwest Cement Company              | Redding Type I/II                | Redding Plant                         | Redding, CA            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Lehigh Southwest Cement Company              | Redding Type II/V Low Alkali     | Redding Plant                         | Redding, CA            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Lehigh Southwest Cement Company              | Tehachapi Type II/V Low Alkali   | Tehachapi Plant                       | Tehachapi, CA          | ASTM C 150    |
| Cement            | Type III Portland Cement      | Lehigh Southwest Cement Company              | Tehachapi Type III Low Alkali    | Tehachapi Plant                       | Tehachapi, CA          | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Mitsubishi Cement Corporation                | Cushenbury Type II/V             | Cushenbury Plant                      | Lucerne Valley, CA     | ASTM C 150    |
| Cement            | Type III Portland Cement      | Mitsubishi Cement Corporation                | Cushenbury Type III              | Cushenbury Plant                      | Lucerne Valley, CA     | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Mountain Cement Company                      | Laramie Type II/V                | Laramie Plant                         | Laramie, WY            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | National Cement Company                      | Lebec Type II/V                  | Lebec Plant                           | Lebec, CA              | ASTM C 150    |
| Cement            | Type II Portland Cement       | Nevada Cement Company                        | Fernley Type I/II                | Fernley Plant                         | Fernley, NV            | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Nevada Cement Company                        | Fernley Type II/V                | Fernley Plant                         | Fernley, NV            | ASTM C 150    |
| Cement            | Type II Portland Cement       | Pan Pacific Cement                           | Jidong Type II                   | Tangshan City, China                  | Port of Stockton, CA   | ASTM C 150    |
| Cement            | Type II/V Portland Cement     | Salt River Materials Group -- Phoenix Cement | Clarkdale Type II/V              | Clarkdale, Arizona Plant              | Clarkdale, AZ          | ASTM C 150    |
| Cement            | Type III Portland Cement      | Salt River Materials Group -- Phoenix Cement | Clarkdale Type III               | Clarkdale, Arizona Plant              | Clarkdale, AZ          | ASTM C 150    |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Boral Material Technologies                  | Apache Fly Ash                   | Plant Apache                          | Cochise, AZ            | AASHTO M 295  |
| Fly Ash           | Ultra Fine Fly Ash            | Boral Material Technologies                  | Micron3                          | Rockdale Plant                        | Rockdale, TX           | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (10%<CaO<15%) | Charah, Inc.                                 | Trona Fly Ash                    | Trona Plant                           | Trona, CA              | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (10%<CaO<15%) | ENX  | Genesee Fly Ash                  | Genesee Plant                         | Warburg, AB Canada     | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Headwaters Resources Inc.                    | Bridger Fly Ash                  | Bridger Power Plant                   | Rock Springs, WY       | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (10%<CaO<15%) | Headwaters Resources Inc.                    | Delta Fly Ash                    | Delta Power Plant                     | Delta, UT              | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Headwaters Resources Inc.                    | Navajo Fly Ash                   | Navajo Power Plant                    | Page, AZ               | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Headwaters Resources Inc.                    | Pomona Terminal Fly Ash          | Pomona Terminal                       | Pomona, CA             | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (10%<CaO<15%) | Lafarge North America                        | Centralia Fly Ash                | Centralia                             | Seattle, WA            | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (10%<CaO<15%) | Lafarge North America                        | Sundance Fly Ash                 | Sundance                              | Edmonton, AB Canada    | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Salt River Materials Group -- Phoenix Cement | Cholla Fly Ash                   | Cholla Power Plant                    | Joseph City, AZ        | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Salt River Materials Group -- Phoenix Cement | Four Corners Fly Ash             | Four Corners Power Plant              | Fruitland, NM          | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Salt River Materials Group -- Phoenix Cement | Gallup Fly Ash                   | Gallup Terminal                       | Gallup, NM             | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Salt River Materials Group -- Phoenix Cement | Escalante Fly Ash                | Tri-State Generation and Transmission | Prewitt, NM            | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | SCB Int'l Materials                          | Takehara Fly Ash                 | JPower - Takehara                     | Tokyo, Japan           | AASHTO M 295  |
| Fly Ash           | Class F Fly Ash (CaO<10%)     | Spartan Materials                            | Spartan AC34                     | Adani Power                           | Gujarat, India         | AASHTO M 295  |
| Pozzolan          | Metakaolin                    | Advanced Cement Technologies                 | PowerPozz Metakaolin             | Aiken Facility                        | Aiken, SC              | AASHTO M 295  |
| Pozzolan          | Natural Pozzolan              | Nevada Cement Company                        | Fernley Class N Pozzolan         | Fernley Plant                         | Fernley, NV            | AASHTO M 295  |
| Silica Fume       | Silica Fume                   | Advanced Cement Technologies                 | ACT-DSF                          | Norchem, Inc.                         | Fort Pierce, FL        | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | BASF Construction Chemicals                  | MasterLife SF 100                | Norchem, Inc.                         | Fort Pierce, FL        | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | Diversified Minerals Inc.                    | Elkem Silica Fume                | Elkem Materials                       | Pittsburg, PA          | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | Euclid Chemical Company                      | Eucon MSA                        | Elkem Materials                       | Pittsburg, PA          | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | GCP Applied Technologies                     | Force 10,000D                    | Mississippi Silicon                   | Burnsville, MS         | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | Headwaters Resources Inc.                    | Elkem Silica Fume                | Elkem Materials                       | Pittsburg, PA          | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | RED Industrial Products                      | Microfume                        | Rand Carbide Factory                  | Malaheni, South Africa | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | RED Industrial Products                      | R-E-D Fume 102 DM                | Mississippi Silicon                   | Burnsville, MS         | AASHTO M 307  |
| Silica Fume       | Silica Fume                   | Sika Corporation                             | Sikacrete 950DP                  | Norchem, Inc.                         | Fort Pierce, FL        | AASHTO M 307  |
| Slag              | Slag Cement Grade 100         | Lafarge North America                        | NewCem                           | Seattle Plant                         | Seattle, WA            | AASHTO M 302  |
| Slag              | Slag Cement Grade 120         | Lehigh Southwest Cement Company              | ALLCEM Slag Cement               | Nippon Steel Corp.                    | Tokyo, -- Japan        | AASHTO M 302  |