



QUICK REFERENCE GUIDE:

Reference Specifications

Background:

Reference specifications bring the Standard Specification from our Spec books into the system. Contract and Regional Modifications may not exist in the system and will need to be created. To create these specifications, follow this guide.

Roles:

Materials Rover, Materials Lab Admin, Construction Project Engineer

Navigation:

Materials Reference Data or Reference Data > Materials >

1. On the Material Overview page, use the search and filter fields at the top of the page to find the desired material and click its **Material Code** link.
2. Select the **Action Relationships** tab on the left.
3. In the **Additional Action Relationships** section, find the row with Specification in its header. Click on the **Row Actions Menu**, and select the **Open Reference Specifications** link.
4. On the Reference Specification Overview, find the row with the standard reference specification you will use to copy. Click on the **Row Actions Menu**, and select the **Copy Reference Specification** link.
5. On the Copy Reference Specification modal, in the **Specification Name** field, enter the Contract ID if it is Contract Specific or enter the Region abbreviation, Mod, and Year if it is a Regional Modification (example: CRMOD2022). Select the Material your contract specification will be added to. Click **Add to Action Relationship** in the lower right corner.

- a. If you added it to the same material you copied it from, you will see you Specification Name appear on the Reference Specification Overview.
- b. If you copied the specifications to a different material, return to the Material Overview and find the Material. Click the **Material Code** link and navigate to the Reference Specification Overview.

6. On the Reference Specification Overview, click the **Specification Name** link of the Specification you created.
7. On the Reference Summary page, uncheck the Standard Spec? Check box if checked and **save**.
8. **Expand** the panel of Specifications. You may change the name in the **Specification Condition Name** field if needed for your contract.
9. Click the arrow on the left to expand the condition row and find the rows with **Field** for which your Contract has a modified specification. *Note: Field Names must match the Agency View Field Name in order for it to appropriate pull into the Agency View and determine whether the tested material has passed or failed. Use the following sheet to reference the Field Name for each Test Method.*
10. In the expanded Field row, enter the appropriate **Min Limit** and **Max Limit** for your contract.
11. Click **Save** in the upper right corner.
12. Repeat steps 7-9 as necessary, to modify all fields with a specification different from the standard.

Next Steps:

When the Contract Materials are complete – any Contract Specific Reference Specifications should be expired by the Project Staff.

To expire a Reference Specification:



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Materials Reference Data or Reference Data > Reference Specifications>

1. On the Reference Specification Overview, search for your Contract ID.
2. Click the Contract ID to open the Reference Specification. Enter an **Expiration Date** and **Save**.
3. Repeat for all Contract Specific Reference Specifications.

Below you will locate the Test Method AV you are editing the specifications for, copy the **Field Name** and match the **Condition Field Type** fields. If you copied from an existing material with the same Test Method AVs, you should not have to change or alter this.

Agency View	Condition Fields	Condition Type
AASHTO T 104	Sodium Sulfate Loss	Numeric w/ Min/Max
AASHTO T 106	Compressive Strength	Numeric w/ Min/Max
AASHTO T 291	ppm	Numeric w/ Min/Max
AASHTO T 112	% Friable	Numeric w/ Min/Max
AASHTO T 113	PctMass50	Numeric w/ Min/Max
AASHTO T 113	PctMassNo4	Numeric w/ Min/Max

AASHTO T 164	Asphalt Content	Numeric w/ Min/Max
AASHTO T 22	Compressive Strength	Numeric w/ Min/Max
AASHTO T 289	pH	Numeric w/ Min/Max
AASHTO T 290	ppm	Numeric w/ Min/Max
AASHTO T 304	FA Angularity	Numeric w/ Min/Max
AASHTO T 327	Pct Loss	Numeric w/ Min/Max
AASHTO T 48	Corrected Flash Point	Numeric w/ Min/Max
AASHTO T 59	Viscosity	Numeric w/ Min/Max
AASHTO T 59	Average Residue	Numeric w/ Min/Max
AASHTO T 59	Oversize Particles	Numeric w/ Min/Max
AASHTO T 59	Particle Charge	Alphanumeric
AASHTO T 59	Residue	Numeric w/ Min/Max
AASHTO T 59	Oil Distillates	Numeric w/ Min/Max
AASHTO T 88	Total % 0.02 mm	Numeric w/ Min/Max
AASHTO T 96	Percent Wear	Numeric w/ Min/Max
AASHTO T 97	Compressive Strength	Numeric w/ Min/Max
AASHTO T 21	Test Value	Alphanumeric
ATM 203	Organic Content	Numeric w/ Min/Max
ATM 204	Liquid Limit	Numeric w/ Min/Max

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ATM 205	Plasticity Index	Numeric w/ Min/Max
ATM 206	pH	Numeric w/ Min/Max
ATM 213	Percent Compaction	Numeric w/ Min/Max
ATM 304	4 in (100 mm)	Numeric w/ Min/Max
ATM 304	3 in (75 mm)	Numeric w/ Min/Max
ATM 304	2 in (50 mm)	Numeric w/ Min/Max
ATM 304	1.5 in (37.5 mm)	Numeric w/ Min/Max
ATM 304	1 in (25 mm)	Numeric w/ Min/Max
ATM 304	0.75 in (19.0 mm)	Numeric w/ Min/Max
ATM 304	0.5 in (12.5 mm)	Numeric w/ Min/Max
ATM 304	0.375 in (9.5 mm)	Numeric w/ Min/Max
ATM 304	#4 (4.75 mm)	Numeric w/ Min/Max
ATM 304	#8 (2.36 mm)	Numeric w/ Min/Max
ATM 304	#10 (2.00 mm)	Numeric w/ Min/Max
ATM 304	#16 (1.18 mm)	Numeric w/ Min/Max
ATM 304	#30 (.600 mm)	Numeric w/ Min/Max
ATM 304	#50 (.300 mm)	Numeric w/ Min/Max

ATM 304	#100 (.150 mm)	Numeric w/ Min/Max
ATM 304	#200 (.075 mm)	Numeric w/ Min/Max
ATM 305	Single Face Fracture	Numeric w/ Min/Max
ATM 305	Double Face Fracture	Numeric w/ Min/Max
ATM 305	All Face Fracture	Numeric w/ Min/Max
ATM 306	Flat & Elongated 1:3	Numeric w/ Min/Max
ATM 306	Flat & Elongated 1:5	Numeric w/ Min/Max
ATM 307	Sand Equivalent	Numeric w/ Min/Max
ATM 312	Nordic Abrasion	Numeric w/ Min/Max
ATM 313	Deg	Numeric w/ Min/Max
ATM 315	Up To 25	Numeric w/ Min/Max
ATM 315	More Than 50	Numeric w/ Min/Max
ATM 315	Up To 400	Numeric w/ Min/Max
ATM 315	200 Or More	Numeric w/ Min/Max
ATM 315	More Than 400	Numeric w/ Min/Max
ATM 315	700 Or More	Numeric w/ Min/Max
ATM 315	More Than 1400	Numeric w/ Min/Max
ATM 315	2000 Or More	Numeric w/ Min/Max

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ATM 315	More Than 5400	Numeric w/ Min/Max
ATM 410	Panel Percent Compaction	Numeric w/ Min/Max
ATM 410	Joint Percent Compaction	Numeric w/ Min/Max
ATM 411	Percent Compaction	Numeric w/ Min/Max
ATM 414	Percent Aggregate Coated	Numeric w/ Min/Max
ATM 417	Stability (lbs)	Numeric w/ Min/Max
ATM 417	Flow, 0.01 inches	Numeric w/ Min/Max
ATM 417	Total Mix (%VTM)	Numeric w/ Min/Max
ATM 417	Filled (%VFA)	Numeric w/ Min/Max
ATM 417	Asphalt Content %	Numeric w/ Min/Max
ATM 417	Dust-Asphalt Ratio	Numeric w/ Min/Max
ATM 417	In Mineral Aggregate (%VMA)	Numeric w/ Min/Max
ATM 417	Antistrip %	Numeric w/ Min/Max
ATM 417	RAP %	Numeric w/ Min/Max
ATM 419	Average Rut Depth	Numeric w/ Min/Max
ATM 421	2 in (50 mm)	Numeric w/ Min/Max

ATM 421	1.5 in (37.5 mm)	Numeric w/ Min/Max
ATM 421	1 in (25 mm)	Numeric w/ Min/Max
Binder Properties		
Conc Placement	Slump	Numeric w/ Min/Max
Conc Placement	Air Content %	Numeric w/ Min/Max
Concrete Mix Design	Compressive Strength	Numeric w/ Min/Max
Concrete Mix Design	Air Content	Numeric w/ Min/Max
Concrete Mix Design	Water/Cement Ratio	Numeric w/ Min/Max
Emulsified Asphalt Treated Base Course	Viscosity	Numeric w/ Min/Max
Emulsified Asphalt Treated Base Course	Percent Retained	Numeric w/ Min/Max
Emulsified Asphalt Treated Base Course	Particle Charge	Alphanumeric
Emulsified Asphalt Treated Base Course	Percent of Oil Distillate	Numeric w/ Min/Max
Emulsified Asphalt Treated Base Course	Percent of Residue	Numeric w/ Min/Max
Emulsified Asphalt Treated Base Course	Original Penetration	Numeric w/ Min/Max
ITS of FASBC	Average psi	Numeric w/ Min/Max

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HMA Mix Design	Asphalt Content %	Numeric w/ Min/Max
HMA Mix Design	Gyrations	Alphanumeric
HMA Mix Design	Number of Blows	Alphanumeric
HMA Mix Design	0.75 in (19.0 mm)	Numeric w/ Min/Max
HMA Mix Design	0.5 in (12.5 mm)	Numeric w/ Min/Max
HMA Mix Design	0.375 in (9.5 mm)	Numeric w/ Min/Max
HMA Mix Design	#4 (4.75 mm)	Numeric w/ Min/Max
HMA Mix Design	#8 (2.36 mm)	Numeric w/ Min/Max
HMA Mix Design	#16 (1.18 mm)	Numeric w/ Min/Max
HMA Mix Design	#30 (.600 mm)	Numeric w/ Min/Max
HMA Mix Design	#50 (.300 mm)	Numeric w/ Min/Max
HMA Mix Design	#100 (.150 mm)	Numeric w/ Min/Max
HMA Mix Design	#200 (.075 mm)	Numeric w/ Min/Max
ATB Mix Design	Single Face Fracture	Numeric w/ Min/Max
ATB Mix Design	Double Face Fracture	Numeric w/ Min/Max
ATB Mix Design	All Face Fracture	Numeric w/ Min/Max
ATB Mix Design	Asphalt Content %	Numeric w/ Min/Max
ATB Mix Design	0.75 in (19.0 mm)	Numeric w/ Min/Max

ATB Mix Design	0.5 in (12.5 mm)	Numeric w/ Min/Max
ATB Mix Design	0.375 in (9.5 mm)	Numeric w/ Min/Max
ATB Mix Design	#4 (4.75 mm)	Numeric w/ Min/Max
ATB Mix Design	#8 (2.36 mm)	Numeric w/ Min/Max
ATB Mix Design	#16 (1.18 mm)	Numeric w/ Min/Max
ATB Mix Design	#30 (.600 mm)	Numeric w/ Min/Max
ATB Mix Design	#50 (.300 mm)	Numeric w/ Min/Max
ATB Mix Design	#100 (.150 mm)	Numeric w/ Min/Max
ATB Mix Design	#200 (.075 mm)	Numeric w/ Min/Max
Concrete Batch	Water Cement Ratio	Numeric w/ Min/Max
Concrete Batch	Total Cement	Numeric w/ Min/Max
Concrete Batch	Coarse Aggregate	Numeric w/ Min/Max
Concrete Batch	Intermediate Aggregate	Numeric w/ Min/Max
Concrete Batch	Fine Aggregate	Numeric w/ Min/Max
Concrete Batch	Water	Numeric w/ Min/Max
Concrete Batch	Cement	Numeric w/ Min/Max
Concrete Batch	Fly Ash	Numeric w/ Min/Max
Concrete Batch	Silica Fume	Numeric w/ Min/Max

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Concrete Batch	Slag	Numeric w/ Min/Max
3 point density	Percent Compaction	Numeric w/ Min/Max

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