



WYDOT Forms: E-45, E-46

Section 14 – WYDOT Forms



**WYOMING DEPARTMENT OF TRANSPORTATION
CONCRETE MIX DESIGN**

E-45
(Rev. 10-19)

Project Number: ERP Project Number Date Submitted: XX/XX/XXX
 Project Name: Project Name or Location Supplier: Supplier's Name
 Resident Engineer: Resident Engineer's Name Contractor: Company Name
 Engineer's Town: Engineer's Town Batch Plant Location: Town

A mix design for I-II concrete
 to be used for Sidewalk, Bike Path, Structures is
 hereby requested. The following materials are proposed for use in the above mix.

Cement: Type: I-II Supplier/Manufacturer: Holeim (Trident Plant)
 Fly Ash: Class: F Source: Craig
 Slag Cement: Grade: 120 Source: Mountain
 Admixtures:
 Air entraining Supplier/Manufacturer: Master Builders Trade Name: Micro - Air
 Water reducing Supplier/Manufacturer: Master Builders Trade Name: Pozzolith 322

Other Additives (specify):
 Supplier/Manufacturer: _____ Trade Name: _____
 Supplier/Manufacturer: _____ Trade Name: _____
 Supplier/Manufacturer: _____ Trade Name: _____
 Supplier/Manufacturer: _____ Trade Name: _____

Aggregates:
 Coarse: Specification: _____ Source (Pit): Pit Name
 Location: Location of Pit
 Fine: Specification: _____ Source (Pit): Pit Name
 Location: Location of Pit

First anticipated date of concrete use: _____

Remarks: _____

Signatures:

Supplier: _____ Concrete Sub: _____
 Email: _____ Email: _____
 Phone #: _____ Phone #: _____
 Date: _____ Date: _____

Prime Contractor: _____ Resident Engineer: _____
 Email: _____ Email: _____
 Phone #: _____ Phone #: _____
 Date: _____ Date: _____



WYOMING DEPARTMENT OF TRANSPORTATION MICROSURFACING MIX DESIGN (Including JMF)

E-46M
(Rev. 09-16)

Project Number: ERP Number
 Project Name: ERP Name
 Resident Engineer: Engineer's Name
 Engineer's Town: Town Name

Date Submitted: XX/XX/XXXX
 Contractor: Company Name
 Consultant: Company Name

SIEVE SIZE	AVG. GRADATION 60 % OF TOTAL ITEM CRUSHED TO DATE	JOB MIX FORMULA (JMF)	TOLERANCE (GRADING BAND)	WIDE BAND
3/8 inch (9.5 mm)	100	100	100	100
No. 4 (4.75 mm)	77	77	72-82	70 to 90
No. 8 (2.36 mm)	49	49	45-55	45 to 70
No. 16 (1.18 mm)	35	35	30-40	28 to 50
No. 30 (0.60 mm)	26	26	21-31	19 to 34
No. 50 (0.30 mm)	20	20	16-24	12 to 25
No. 100 (150 µm)	13	13	10-16	7 to 18
No. 200 (75 µm)	7.6	7.6	5.6-9.6	5 to 15

The virgin material was combined at percentages (%) as follows:

BIN #	%	AGGREGATE		FRACTURED FACES, %/ %	POLISH Resistant, Y/N	SOUNDNESS (MgSO ₄), % Less
		SIZE	SOURCE			
1	28	Max	Pit Name	100/95	Y	25 max
2	14	Max	Pit Name	95/90	Y	25 max
3	58	Max	Pit Name	100/95	Y	25 max

	Content, %	Supplier or Source	Grade / Type	I_{u32}	Comments
Emulsion	11 min.		CQS-1HP	-----	
Residual Asphalt	7 min.		PG58-28	≤ 4	PVMT climate hitemp, 58° c
Polymer	3 min.		SBS	-----	
Portland Cement	1.5 ± 1			-----	
Hydrated Lime	1.5 ± 1			-----	
Additive	0.5 max			-----	
Water	9 ± 3			-----	

Test Procedure	Description	Value	Specification
ISSA TB100	Wet Track Abrasion, One Hr Loss	<u>3</u> g/ft ²	50 g/ft ² max.
	Wet Track Abrasion, 6 Day Soak Loss	<u>5</u> g/ft ²	75 g/ft ² max.
ISSA TB109	Excess Asphalt by LWT Sand Adhesion	<u>10</u> g/ft ²	50 g/ft ² max.
ISSA TB113	Mix Time @ 77° F	<u>185</u> sec.	120 sec. Min.
ISSA TB114	Wet Stripping	<u>90 +</u> %	90% min.
ISSA TB139	Wet Cohesion @ 30 min (set)	<u>15</u> kg-in	31 kg-in min.
	Wet Cohesion @ 60 min (traffic)	<u>21</u> kg-in	51 kg-in min. or Near Sp in
ISSA TB144	Classification Compatibility	<u>BAA (A=4,B=3,C=2,D=1,O=0)</u>	8 grade points min. (integrity+ adhesion), abrasion loss ≤ 3g
ISSA TB147	Lateral Displacement	<u>2</u> %	5% max.
	Vertical Displacement	<u>10</u> %	15% max.
	SG after 1,000 Cycles of 125 lbs	<u>1.95</u>	2.10 max.

COMMENTS: _____

Proposed Paving Date: _____

Signatures

Supplier: _____ Email: _____ Phone #: _____ Date: _____	Paving Sub: _____ Email: _____ Phone #: _____ Date: _____
Prime Contractor: _____ Email: _____ Phone #: _____ Date: _____	Resident Engineer: _____ Email: _____ Phone #: _____ Date: _____