

### **Production**

- ➤ Prepave Conference
  - ▶ Prior to paving
  - **▶ JMF**
  - ▶ Materials Source
  - ▶ Plant Equipment and Operation
  - ▶ Burner Fuels
  - **▶ Lime Addition**
  - ▶ Roller Types and Patterns
  - ► Lay down Equipment
  - ▶ Density Requirements
  - ▶ Tack or Seal Coats

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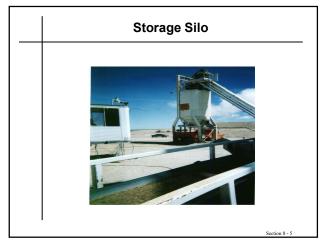
## **Asphalt Mixing Plants**

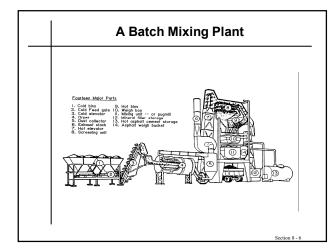
(WYDOT 401.3.3)

- **≻** Types
  - ▶ Batch Plant
  - ▶ Drum Plant
- ➤ Capacity > 100t/hour
- ➤ Plant Mix Quantity > 5000 tons

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Mixir	ng & Compaction	n Temperatures
İ	Lab Mixing Temp F	Lab Compaction Temp F
PG 58-XX	310	285
PG 64-XX	320	295
PG 70-XX	330	305
PG 76-XX	330	305
•		Section 8 - 8



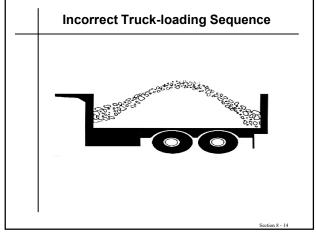
# **Weather Limits** ➤ Cutoff Dates – May 1 to October 15 > In writing, the engineer may extend paving start or finish dates > No placement when conditions prevent proper handling, compacting or finishing

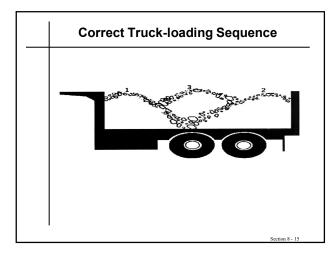
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Atmospheric Temperat	ture Limits
Table 401.4.3-	5
Air Temperature Lin Compacted Thickness of Surface Course	Air Temperature
Being Placed	· · · · · · · · · · · · · · · · · · ·
Compacted thickness < 1 in [25 mm]	60 °F [15 °C]
1 in [25 mm] ≤ compacted thickness < 2 in [50 mm]	50 °F [10 °C]
Compacted thickness ≥ 2 in [50 mm]	40 °F [4 °C]
Leveling	50 °F [10 °C]

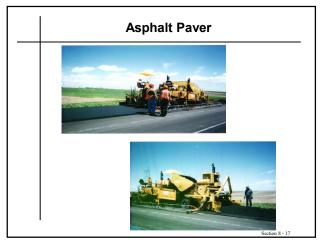
Atmospheric Temper	ature Limits
Table 401.4.3- Air Temperature Limitations	
Compacted Thickness of Surface Course Being Placed	Air Temperature
Compacted thickness < 1 in [25 mm]	55 - 60 °F [15 °C]
1 in [25 mm] ≤ compacted thickness < 2 in [50 mm]	45 - 50 °F [10 °C]
Compacted thickness ≥ 2 in [50 mm]	35 - 40 °F [4 °C]
Leveling	45 - 50 °F [10 °C]

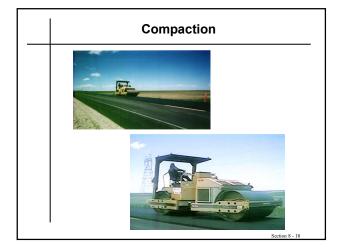
# Hauling > Release Agents – Paraffin or non petroleum > No contamination > Cover as needed





# Rollers > WYDOT 401.3.6 > Meet requirements of subsection 210.3.6 > Capable of reversing direction without backlash > Shall not adversely affect pavement surface





# Burner Fuels WYDOT 401.2.4 > Natural gas > Used Oil > Butane > Propane > Number 1 and Number 2 fuel oil Mixing > Asphalt within 25°F of aggregate

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Spreading the Finishing (	continued)
≻ Transverse Joints	
▶ Taper 1V:6H	
▶ Taper removed	
➤ Opening to Traffic	
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# Test Strips (continued)

- ➤ Sampling and Testing
  - ▶ 7 samples from last 300 t
  - ► If correlation is being done 2 samples per location
  - ► Random locations WYDOT selected, contractor core
  - ▶ No sample <1 ft for edge
  - ▶ Densities by T 230 (Wyoming modified)
- ➤ Acceptance
  - ▶ If P.F. ≥ 1.00 Accept Test Strip
  - ▶ If P.F. < 0.50 Reject Test Strip
  - ▶ If P.F. ≥ 0.50 but <1.00 May be left in place

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## **Test Strips (continued)**

- **➢ Other Considerations** 
  - ▶ Additional Strips Contractor Pay
  - ▶ JMF Changes New Test Strip
  - ► Contractor Request Contractor Pay
  - ▶ Materials Program Request State Pay
  - ▶ Results < 24 hours
  - ► Payment Lump Sum
  - ► Payment for materials based on P.F. evaluation

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Compaction	
➤ Rolling  ➤ Immediately after placement  ➤ Continuous till density achieved  ➤ Sufficient rollers	
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## **Compaction (continued)**

- ➤ Sampling
  - ▶ Seven test/lot on QC/QA projects
  - ▶ Lot 1500 t, maximum
  - ► Sublot one-seventh of lot
  - ▶ Random locations
  - ▶ No test < 1 ft for edge
  - ► AASHTO T 230 (Wyoming Modified) for acceptance
  - ► Nuclear density gauge if calibrated, use for quality control only

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	PM	IWC	
> JMI	F		
•	Passing ½"		100%
•	Passing 3/8"		97-100%
•	Passing #4		± 5%
•	Passing #8		± 5%
•	Passing #200		± 2.0%
٠	Mix Temperature	JMF Temp.	± 20°F
- Pla	cing and Compact	tion	
▶ 3	passes steel whe	el in static m	node
١٨	lo density require	ments	
► C	Cutoff dates - June	e 1 to Septen	nber 15

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