

### MAT PROBLEM TROUBLE-SHOOTING GUIDE

PROBLEM	CAUSES																																																																		
	Excessive Play in Screed Overcorrecting Too Little Lead Crown in Screed Too Much Lead Crown in Screed Finisher Speed Overloaded Feeder Screws Overloaded Fluctuating Head of Material	Excessive Play in Screed Overcorrecting Too Little Lead Crown in Screed Too Much Lead Crown in Screed Finisher Speed Overloaded Feeder Screws Overloaded Fluctuating Head of Material	Excessive Play in Screed Overcorrecting Too Little Lead Crown in Screed Too Much Lead Crown in Screed Finisher Speed Overloaded Feeder Screws Overloaded Fluctuating Head of Material	Screed Plates Worn Out or Warped Screed Riding on Lift Cylinders Moldboard on Strikeoff Too Low Cold Screed	Screed Plates Worn Out or Warped Screed Riding on Lift Cylinders Moldboard on Strikeoff Too Low Cold Screed	Screed Plates Worn Out or Warped Screed Riding on Lift Cylinders Moldboard on Strikeoff Too Low Cold Screed	Kicker Screws Worn Out or Running Hopper Empty Feeder Gates Set Too Low Cold Screed	Kicker Screws Worn Out or Running Hopper Empty Feeder Gates Set Too Low Cold Screed	Screed Extensions Installed Incorrectly Vibrators Installed Too Short	Screed Extensions Installed Incorrectly Vibrators Installed Too Short	Grade Control Wand Mounted Incorrectly Grade Reference Too High	Grade Control Wand Mounted Incorrectly Grade Reference Too High	Sitting Long Period on Reference Improper Mat Thickness for Max. Agg. Size	Sitting Long Period on Reference Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Improper Mat Thickness for Max. Agg. Size	Trucks Bumping for Joint Overlap Improper Base Preparation Truck Holding Brakes	Trucks Bumping for Joint Overlap Improper Base Preparation Truck Holding Brakes	Trucks Bumping for Joint Overlap Improper Base Preparation Truck Holding Brakes	Improper Mix Design (Aggregate) Mix Segregation Moisture in Mix	Improper Mix Design (Aggregate) Mix Segregation Moisture in Mix	Improper Mix Design (Aggregate) Mix Segregation Moisture in Mix	Improper Mix Design (Aggregate) Mix Segregation Moisture in Mix	Variation of Mix Temperature Cold Mix Temperature	Variation of Mix Temperature Cold Mix Temperature	Variation of Mix Temperature Cold Mix Temperature	Variation of Mix Temperature Cold Mix Temperature																																				
Wavy Surface - Short Waves (Ripples)	✓	✓	✓			✓	✓		✓			✓	✓	✓	✓																				X	X				X	X	X		X																							
Wavy Surface - Long Waves	✓	✓				✓	✓	✓				✓	✓												✓	✓												X	X	X	X		X	X																							
Tearing of Mat - Full Width			✓						✓		✓																															X	X	X	X	X	X																				
Tearing of Mat - Center Streak					✓				✓		✓		✓	✓																																					X																
Tearing of Mat - Outside Streaks				✓					✓		✓	✓	✓										✓																													X															
Mat Texture - Non-uniform	✓	✓	✓					✓	✓	✓	✓		✓										✓														X			X				X	X	X		X	X																		
Screed Marks								✓																																X	X																										
Screed Not Responding to Correction			✓					✓	✓		✓													✓																									X	X																	
Auger Shadows			✓																																															X	X	X															
Poor Precompaction																																																				X															
Poor Longitudinal Joint	✓	✓				✓		✓																	✓	✓	✓																										X														
Poor Transverse Joint			✓					✓	✓		✓													✓	✓																												X														
Transverse Cracking (Checking)																																																				X	X														
Mat Shoving Under Roller																																																				X	X	X													
Bleeding or Fat Spots in Mat																																																					X	X													
Roller Marks																																																						X													
Poor Mix Compaction																																																							X	X	X	X	X	X			X	X	X		

1. Find Problem Above
2. ✓ Indicate causes related to the paver.  
x's Indicate other problems to be investigated.

**NOTE: Many times a problem can be caused by more than one item, therefore, it is important that each cause listed is eliminated to assure solving the problem.**