

Distresses in Asphalt Pavements

Types of Distress	Structural	Functional	Load associated	Non-load associated
Alligator or fatigue cracking	×		×	
Bleeding		×		×
Block cracking	×			×
Corrugation		×		×
Depression		×		×
Joint reflection cracking	×			×
Lane/shoulder dropoff or heave		×		×
Lane/shoulder separation		×		×
Longitudinal and transverse cracking	×			×
Patch deterioration	×	×	×	
Polished aggregate		×	×	
Potholes	×	×	×	
Pumping and water bleeding	×	×	×	×
Raveling and weathering		×		×
Rutting		×	×	
Slippage cracking	×		×	
Swell	×	×		×

^a Tire abrasion.

Source: Huang (2004). Pavement Analysis and Design, Pearson Prentice Hall

Distresses in Concrete Pavements

Types of distress	Structural	Functional	Load associated	Non-load associated
Blowup	×	×		×
Corner break	×	×	×	
Depression		×		×
Durability "D" cracking	×	×		×
Faulting of transverse joints and cracks		×	×	
Joint load transfer associated deterioration	×	×	×	×
Joint seal damage of transverse joints				×
Lane/shoulder dropoff and heave		×		×
Lane/shoulder joint separation		×		×
Longitudinal cracks		×		×
Longitudinal joint faulting		×		×
Patch deterioration	×	×	×	×
Patch adjacent slab deterioration	×	×	×	×
Popouts		×		×
Pumping and water bleeding	×	×	×	×
Reactive aggregate distress	×	×		×
Scaling, map cracking, and crazing	×			×
Spalling (transverse and longitudinal joints or cracks)	×	×		×
Spalling at corner	×	×		×
Swell	×	×		×
Transverse and diagonal cracks	×		×	×
Construction joint deterioration	×			×
Edge punchout	×		×	
Localized distress	×	×		×