

Guardrail Inspection Checklist

Supplier:

Date:

Manufacturer:

Inspector:

Certificate Inspection (Must Include The Following)			
	Yes	No	Comments
Quantity	<input type="checkbox"/>	<input type="checkbox"/>	
Thickness	<input type="checkbox"/>	<input type="checkbox"/>	
Heat Numbers	<input type="checkbox"/>	<input type="checkbox"/>	
Results For Yield Rail and Transitions > 50,000 psi End and Buffers > 33,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	
Tensile Strength Rail and Transitions > 70,000 psi End and Buffers > 45,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	
Elongation Rail and Transitions in 2" > 12%	<input type="checkbox"/>	<input type="checkbox"/>	
Statement Certifying all meet section 1040, AASTHO M180, M270 grade 36 Steel, NCHRP 350, MASH and are melted and manufactured in USA	<input type="checkbox"/>	<input type="checkbox"/>	
Specific Test Lab Results for Physical and Chemical Coating Properties	<input type="checkbox"/>	<input type="checkbox"/>	
Shipping Forms with Sitemanager ID numbers	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

Guardrail Physical Checks (AASHTO M180, MODOT Spec. section 1040, Standard Drawings 606.00)			
	Yes	No	Comments
Record thickness of the rail at the end middle and other end to nearest 0.001 inches with a micrometer. Class A type 1 > 0.099" Class A type 2 > 0.102" Measurements must be at least 3/8" from the cut edge to avoid distorted results.	<input type="checkbox"/>	<input type="checkbox"/>	1 st _____ 2 nd _____ 3 rd _____ Avg. _____
Check Lengths on Post and Rail Rail length = 13' 7" A – E Transition = 7' 3 1/2" Post = 6' – 7'	<input type="checkbox"/>	<input type="checkbox"/>	Post _____ Transition _____ Rail _____
Weigh Posts to Verify 8.5 lbs/ft Remember to deduct galvanizing (6' post with galvanizing = 51 to 53.6 lbs) ±2.5% Tolerance (+2.5% could be due to extra galvanizing)	<input type="checkbox"/>	<input type="checkbox"/>	
Check Rail width per Standard Drawings 12 1/4" – A rail 19 7/8" – E rail	<input type="checkbox"/>	<input type="checkbox"/>	
Check Coating on Rail Add Avgs. of both rail sides together. Type 1 > 1.8 oz/ft ² (1.53 mils each side) Type 2 > 3.6 oz/ft ² (3.05 mils each side)	<input type="checkbox"/>	<input type="checkbox"/>	Side 1 _____ Side 2 _____ Total _____
Examine Rail For Galvanizing Workmanship Looking for: Excessive Drips, Runs, Icicles, poorly coated spots, and excessive curled edges from warpage on a radius rail	<input type="checkbox"/>	<input type="checkbox"/>	
Check Bolts, Nuts and Washers for Galvanizing as per AASHTO M232 Manufacturing as per ASTM A307	<input type="checkbox"/>	<input type="checkbox"/>	
Check Galvanizing on End Treatments	<input type="checkbox"/>	<input type="checkbox"/>	
Check Guard cable components for coating and sample per EPG table 1040.2.1.2	<input type="checkbox"/>	<input type="checkbox"/>	

Comments: