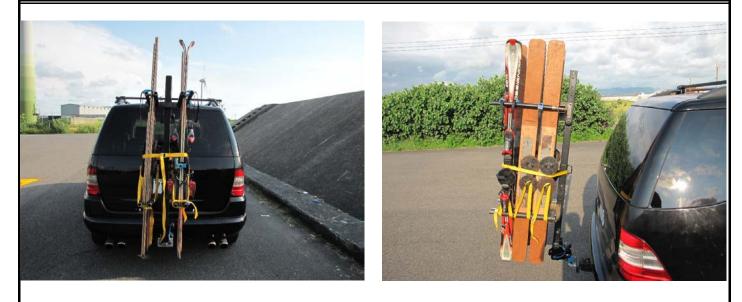
KINGRACK INDUSTRIAL CO. LTD. 高鐵工業股份有限公司 Test Report No. QA20170714



Testing Laboratory

Product Safety

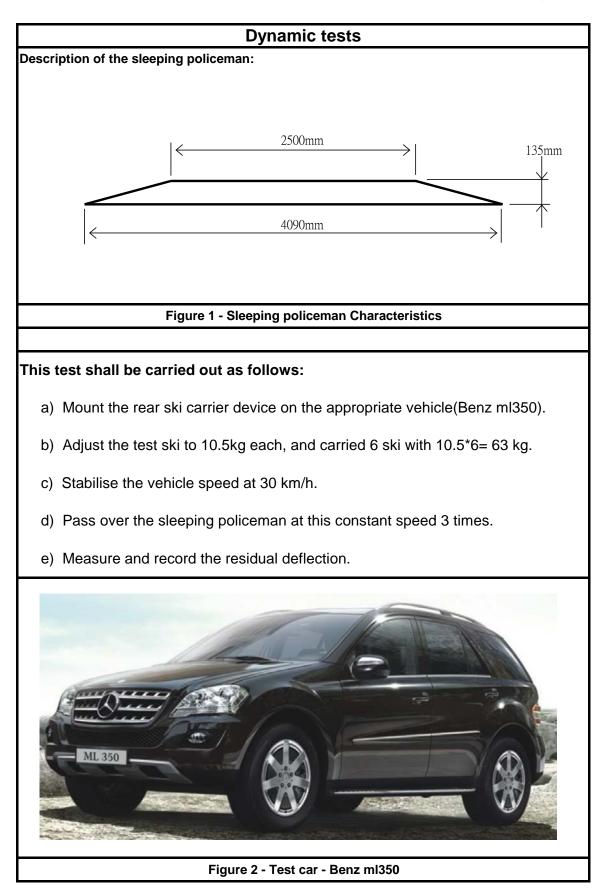


Test report No.	QA20170714		
Applicant:	KingRack		
Test item:	Rear Ski Carrier		
Item No.	SKI-RACK		
Test date:	2017/7/14		
Testing Location	KingRack Testing Lab		
Test Principle:	XP 18 904 4		
Test Result:	Pass		
Test Engineer:	Leon	Date:	
R&D manager Validation:	Cliason	Date:	
Remark notes: 1.The test sample maximun a carriers of 6 ski with load capacity 45 kg.			

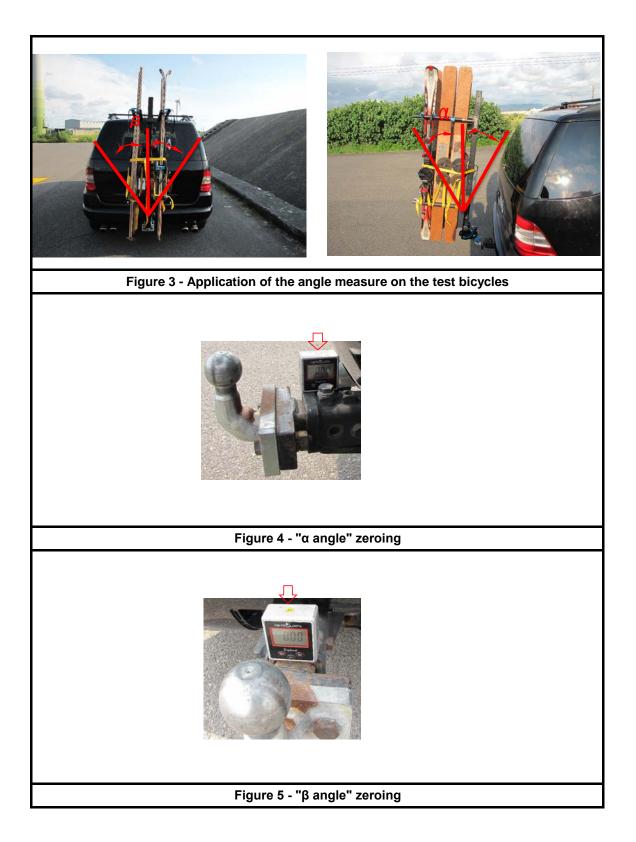
2.Rear ski carrier installed on the tow ball.

3. The square tube size of this test is 1.5t and round tube size is 1.6t.



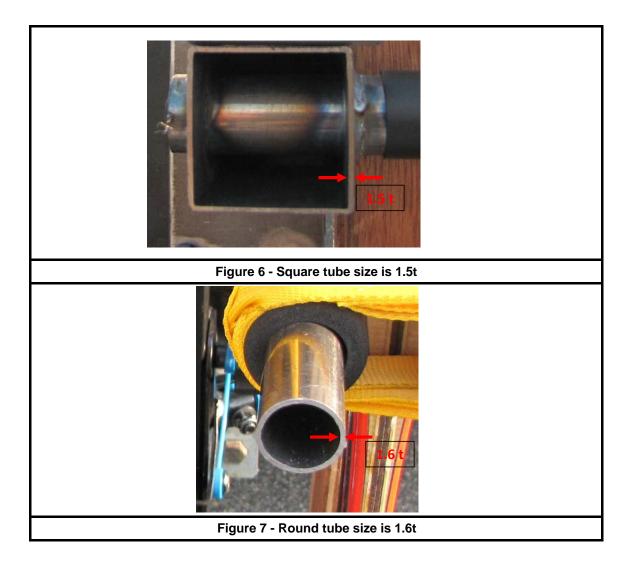






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α = angular deflection (3° max) δ = angular deflection β = angular deflection (3° max)	on (3° max	:)		
	α1			
A REAL PROPERTY AND A REAL	Before test		+82.10°	
	After test		+82.20°	
	Angular deflection		+0.10°	
	Verdict	PA	SS	
Figure 8 - Measure α1 angle after 3 tin	nes			
	α2 (Left) Before test			
			-6.60°	
	After test Angular deflection		-6.30° 0.30°	
	Verdict	PA		
	α3 (Right)			
	Before test		+7.55°	
	After	test	+7.65°	
	Angular d	leflection	0.10°	
	Verdict	PA	SS	
Figure 9 - Measure $\alpha 2$ and $\alpha 3$ angle after 3 times				



α = angular deflection (3° max) δ = angular deflection β = angular deflection (3° max)	on (3° max	:)	
	α4 (Left)		
	Before test After test Angular deflection		-7.55°
			-7.60°
			0.05°
	Verdict	PA	SS
	F		
	α5 (Right)		
	Before test		+8.50°
858	After test		+9.25°
	Angular d		0.75°
	Verdict PASS		SS
Eigure 40 Measure of and of angle offer	2 times		
Figure 10 - Measure α4 and α5 angle after	3 times		
	β1 (Left)		
	Before test		0.00°
	After test		0.00°
	Angular deflection		0.00°
	Verdict	PA	SS
	β2 (Right)		
PERCEASE A	Before test		0.00°
	After test		0.00°
	Angular d	leflection	0.00°
	Verdict	PA	SS
Figure 11 - Measure β 1 and β 2 angle after 3 times			



α = angular deflection (3° max) δ = angular deflection (3° max) β = angular deflection (3° max)					
	β3 (Left)				
	Before test	-0.70°			
	After test	-0.20°			
	Angular deflection	0.50°			
	Verdict P/	ASS			
	β4 (Right)				
•	Before test	, -0.70°			
010	After test	0.00°			
	Angular deflection				
		ASS			
Figure 12 - Measure β3 and β4 angle after	3 times				
	δ1 (Left)				
	Before test	357mm			
	After test	358mm			
	Angular deflection	0.14°			
	δ2 (Rigt)				
	Before test	356mm			
	After test	360mm			
	Angular deflection	0.57°			
	Verdict P/	ASS			
Figure 13 - Measure δ1 and δ2 angle after	3 times				
Notice:					
1. α ,β,δ are the angles between carrier and vehicle					
2. D is the distance change between carrier and vehicle,d is the distance change between carrier and bike					
3. e is the distance bewteen carrier parts					
PASS					