



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED<sup>(4)</sup> / APPROVAL EXTENDED<sup>(1)</sup> /  
APPROVAL REFUSED<sup>(4)</sup> / APPROVAL WITHDRAWN<sup>(4)</sup> / PRODUCTION DEFINITELY  
DISCONTINUED<sup>(4)</sup> OF A WHEEL TYPE, PURSUANT TO REGULATION NO. 124




Approval No: 124R-000025

Extension No: 01

1. Wheel manufacturer: ACACIA Srl
2. Wheel type designation: BM74 9.0x19
  - 2.1. Category of replacement wheels: Pattern part replacement wheel
  - 2.2. Construction material: Aluminium Alloy Al-Si 7%
  - 2.3. Method of production: Cast
  - 2.4. Rim contour designation: 9.0J x 19 EH2+
  - 2.5. Wheel inset/outset: Variants 1 and 2: ET 48  
Variant 3: ET 18  
Variant 4: ET 51  
Variants 5 and 6: ET 37
  - 2.6. Wheel attachment: PCD 5 x 120
  - 2.7. Maximum wheel load and respective theoretical rolling circumference:  
Variants 1, 2, 5 and 6: 9.565 N (975 kg) and 2.316 mm  
Variant 3: 9.565 N (975 kg) and 2.120 mm  
Variant 4: 7.455 N (760 kg) and 2.156 mm
3. Address of the manufacturer:  
ACACIA Srl  
Via Pezzagrande D/2  
84025 Eboli (SA) - Italy

MSP287638

4. If applicable, name and address of manufacturers' representative: Not applicable
5. Date on which the wheel was submitted for approval tests: As before (18 July 2011) and 24 January 2014
6. Technical Service responsible for carrying out the approval test: Vehicle Certification Agency
7. Date of test report issued by the Technical Service: As before (01 November 2011) and 21 March 2014
8. Number of test report issued by the Technical Service: As before (MSM239728) and MSP287638
9. Any remarks: Approval to Supplement 1
10. Approval: GRANTED/ EXTENDED/ REFUSED/ WITHDRAWN<sup>(1)</sup>
11. Reason(s) for the extension (if applicable): To cover  
1) New 9.0J x 19 EH2+ wheel variants with 51mm inset and with 37mm inset  
2) New vehicles to the family
12. Place: BRISTOL
13. Date: 05 JUNE 2014
14. Signature:  A. W. STENNING  
Head of Technical and Quality Support Group
15. Annexed is a list of documents making up the approval file, deposited with the Competent Authority which granted approval, a copy can be obtained on request.

<sup>(1)</sup> Strike out what does not apply.

Sede: Via Pezzagrande D/2 84025 Eboli (SA) Italy  
 Phone: +39 0828 342711 Fax: +39 0828 342733  
 Sito: [www.wspitaly.com](http://www.wspitaly.com) E-mail: info@wspitaly.com  
 Cap.Soc. 600.000, 00 i.v. C.F. e P.IVA: 03582250654

# ACACIA s.r.l.

**OMOLOGAZIONE DI UNA RUOTA**  
**WHEEL'S APPROVAL**  
**REGOLAMENTO ECE R124.00 Suppl 1**  
**REGULATION ECE R124.00 Suppl 1**

VEHICLE CERTIFICATION AGENCY  
 C/o Mr. Meadows  
 1 The Eastgate Office Centre  
 Eastgate Road  
 Bristol BS 5 6XX  
 United Kingdom

**ALLEGATO 10 – ANNEX 10**

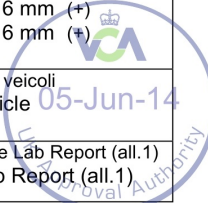
**Documentazione Tecnica - Technical Documentation**

**Ruota Tipo – Wheel Type : BM74 9,0x19**

**Revisione 1 – Review 1 (+) : update data**

1		Fabbricante della Ruota Wheel manufacturer	ACACIA S.r.l. Via Pezzagrande D/2 – 84025 Eboli (SA)				
2		Marchio commerciale del costruttore Manufacturer trademark	WSP ITALY				
3		Tipo Ruota Wheel type	BM74 9,0x19				
4		Designazione Commerciale Commercial name	W674 / AURA				
5		Indirizzo dello stabilimento di fabbricazione Plant address					
6	3.1.1.0	Identificativo Disegni Drawings identifications	(allegato 3 / annex 3);				
7	3.1.2	Caratteristiche tecniche Technical characteristics					
8	3.1.2.1	Categoria delle ruote sostitutive Category of replacement wheels	Punto 2.4.4 Reg. 124 "Ruota sostitutiva replica parziale" - Monopezzo Point 2.4.4 Reg. 124 "Pattern Part Replacement Wheel" - One Piece				
9	2.2.7	Metodo di fabbricazione Method of production	Fusione Cast				
10	3.1.2.2	Designazione Internazionale del cerchio International wheel description	Size	ET	PCD	CB	Colore
		Varianti	Versioni				
		1	2	48		74,1	Anthracite polished Hyper Silver
		2	2	48		72,6	Anthracite polished Hyper Silver
		3	1	18		72,6	Anthracite polished Hyper Silver
		4	2		5x120	72,6	Anthracite polished Hyper Silver
		4 (+)	1	51		72,6	Anthracite polished Hyper Silver
		5	2	37		74,1	Anthracite polished Hyper Silver
		5 (+)	1			74,1	Anthracite polished Hyper Silver
		6	2	37		72,6	Anthracite polished Hyper Silver
		6 (+)	1			72,6	Anthracite polished Hyper Silver
		6 (+)	2			72,6	Anthracite polished Hyper Silver
11	3.1.2.3	Coppia di serraggio colonnette o dadi (kgm) Tightening torque for studs and nuts	12 kgm				
12	3.1.2.4	Metodo Fissaggio dei pesi di equilibratura Fixing method of balancing weights	A innesto su balconata cerchio o adesivi interni al canale su bordo interno o esterno / Clip on weights on wheel lip and adhesive weights on wheel				
13	3.1.2.5	Accessori per il montaggio Additional mounting components	Vengono usati coprimozzi e bulloneria originali Original Cap and studs				
14	3.1.2.6	Norma internazionale di riferimento International standard reference	E.T.R.T.O. (European Tires and Rim Technical Organization)				
15	3.1.2.7	Idoneità al montaggio tubeless Suitable for tubeless tyre mounting	Sì Yes				
16	3.1.2.8	Tipi di valvole Suitable valves types	V2.03.1 (Standard ETRTO)				
17	3.1.2.9	Portata massima della ruota e relativa circonferenza teorica di rotolamento Maximum wheel load and respective theoretical rolling circumference	Varianti/Versioni: 1/*: 9.565 N (975 kg) and 2.316 mm Varianti/Versioni: 2/*: 9.565 N (975 kg) and 2.316 mm Varianti/Versioni: 3/*: 9.565 N (975 kg) and 2.120 mm Varianti/Versioni: 4/*: 7.455 N (760 kg) and 2.156 mm (+) Varianti/Versioni: 5/*: 9.565 N (975 kg) and 2.316 mm (+) Varianti/Versioni: 6/*: 9.565 N (975 kg) and 2.316 mm (+)				
18	3.1.2.10	Pressione di gonfiaggio massima pneumatici Recommended maximum inflation pressure	La pressione di gonfiaggio è quella del costruttore dei veicoli (max3,5bar) / Maximum Inflation pressure as vehicle manufacturer data (max3,5 bar)				
19	3.1.2.11	Materiale Impiegato - Composizione Materiale Material – Material Composition	Vedi Pagina 2 "Materiale impiegato e Composizione" e Lab Report (all. 1) See Page 2 "Material and Composition" and Lab Report (all. 1)				

Valid only with the certificate of conformity and with the serial number of the wheels  
 downloadable after warranty registration of product: [www.wspitaly.com](http://www.wspitaly.com)



## Ruota Tipo – Wheel Type : BM74 9,0x19

20	3.1.2.12	Dimensione pneumatici da costruttore veicoli Tyre size designations specified for vehicle OEM	Variante/Versioni: 1/*: 255 / 50 R19 103V Variante/Versioni: 2/*: 255 / 50 R19 103V Variante/Versioni: 3/*: 275 / 35 R19 96W Variante/Versioni: 4/*: 255 / 40 R19 96W (+) Variante/Versioni: 5/*: 255 / 50 R19 107W (+) Variante/Versioni: 6/*: 255 / 50 R19 107V M+S (+)
21	3.1.3.a	Caratteristiche del veicolo Vehicle Characteristics	Vedi Pagina 2 "Lista dei veicoli" See Page 2 – "List of vehicles"
22	3.1.3.b	Ulteriori caratteristiche Additional characteristics	No
23	3.1.3.c	Istruzioni per il montaggio Fitting Instructions Details	Vedi allegato 2 – "Istruzioni di montaggio per ruota tipo (*)" See annex 2 – "Fitting instruction details for wheels type (*)"
24	3.1.3.d	Requisiti Supplementari Additional Requirements	Vedi pagine da 2 a 5 See pages 2 to 5
25	3.1.4	Ruote campione rappresentative Representative Sample Wheel	Vedi punto 10 – See point 10

### Materiale Impiegato e Composizione

### Material and Composition

Lega di Alluminio Al-Si 7% - Aluminum Alloy Al-Si 7%

Si: min 6,50% - max 7,50%      Fe: min 0,00% - max 0,15%      Al: min 92,0%

Cu: min 0,00% - max 0,20%      Mn: min 0,00% - max 0,20%

Mg: min 0,25% - max 0,32%      Zn: min 0,00% - max 0,30%

Ti: min 0,08% - max 0,18%      Sr: min 0,04% - max 0,08%

### Caratteristiche del/i veicolo/i

### Vehicle's Characteristics

#### Variante/Versioni: 9x19 ET51 5x120 72,6

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for rear axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*70/156-2001/116*0249	e1*70/156-2001/116*0249	--	Measures under approval No. e1*70/156-2001/116*0249	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2006/96*0249	e1*70/156-2006/96*0249	--	Measures under approval No. e1*70/156-2006/96*0249	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2007/37*0249	e1*70/156-2007/37*0249	--	Measures under approval No. e1*70/156-2007/37*0249	See points (11) – (15)

#### Variante/Versioni: 9x19 ET48 5x120 74,1

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for front axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0323	e1*2007/46-371/2010*0323	--	Measures under approval No. e1*2007/46-371/2010*0323	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0412	e1*2007/46-371/2010*0412	--	Measures under approval No. e1*2007/46-371/2010*0412	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-678/2011*0412	e1*2007/46-678/2011*0412	--	Measures under approval No. e1*2007/46-678/2011*0412	See points (11) – (15)

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size front and rear axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0421	e1*2007/46-371/2010*0421	--	Measures under approval No. e1*2007/46-371/2010*0421	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420	--	Measures under approval No. e1*70/156-2006/96*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2001/116*0420	e1*70/156-2001/116*0420	--	Measures under approval No. e1*70/156-2001/116*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420	--	Measures under approval No. e1*70/156-2007/37*0420	See points (11) – (15)

## Ruota Tipo – Wheel Type : BM74 9,0x19

### Varianti/Versioni: 9x19 ET48 5x120 72,6

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for front axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*70/156-2001/116*0153	e1*70/156-2001/116*0153	--	Measures under approval No. e1*70/156-2001/116*0153	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-98/14*0153	e1*70/156-98/14*0153	--	Measures under approval No. e1*70/156-98/14*0153	See points (11) – (15)

### Varianti/Versioni: 9x19 ET37 5x120 74,1

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size front and rear axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*70/156-2001/116*0420	e1*70/156-2001/116*0420	--	Measures under approval No. e1*70/156-2001/116*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420	--	Measures under approval No. e1*70/156-2006/96*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420	--	Measures under approval No. e1*70/156-2007/37*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-385/2009*0172	e1*2007/46-385/2009*0172	--	Measures under approval No. e1*2007/46-385/2009*0172	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172	--	Measures under approval No. e1*2007/46-371/2010*0172	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0421	e1*2007/46-371/2010*0421	--	Measures under approval No. e1*2007/46-371/2010*0421	See points (11) – (15)

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for front axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*2007/46-65/2012*0421	e1*2007/46-65/2012*0421	--	Measures under approval No. e1*2007/46-65/2012*0421	See points (11) – (15)

### Varianti/Versioni: 9x19 ET37 5x120 72,6

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for rear axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*2007/46-385/2009*0172	e1*2007/46-385/2009*0172	--	Measures under approval No. e1*2007/46-385/2009*0172	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172	--	Measures under approval No. e1*2007/46-371/2010*0172	See points (11) – (15)

### Varianti/Versioni: 9x19 ET18 5x120 72,6

Vehicle Type	Vehicle Model (*)	Approval No.	Performance (kW from - to)	Permissible tyre size only for rear axle (*)	Additional conditions and advice
BMW	Vehicle Model under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420	--	Measures under approval No. e1*70/156-2007/37*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420	--	Measures under approval No. e1*70/156-2006/96*0420	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0323	e1*2007/46-371/2010*0323	--	Measures under approval No. e1*2007/46-371/2010*0323	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0412	e1*2007/46-371/2010*0412	--	Measures under approval No. e1*2007/46-371/2010*0412	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172	--	Measures under approval No. e1*2007/46-371/2010*0172	See points (11) – (15)
BMW	Vehicle Model under approval No. e1*2007/46-678/2011*0412	e1*2007/46-678/2011*0412	--	Measures under approval No. e1*2007/46-678/2011*0412	See points (11) – (15)

(\*) More Info : [www.wspitaly.com](http://www.wspitaly.com)

## Ruota Tipo – Wheel Type : BM74 9,0x19

### RELAZIONE SUPPLEMENTARE

### ADDITIONAL REPORT

Requisiti supplementari di cui all'allegato 10 punti 2.1, 2.2, 2.3 e 2.4 del regolamento ECE/ONU n° 124

Additional requirements referred to attachment 10 points 2.1, 2.2, 2.3 and 2.4 of Regulation No. 124 UN/ECE

#### 2.1 Controllo dell'ingombro della ruota

Il controllo dell'ingombro è relativo al profilo di ingombro interno degli organi di sospensione, sterzata e frenatura dei veicoli su cui il cerchio deve essere installato. Tuttavia tale controllo non è necessario che venga esperito nel caso in cui il profilo della ruota oggetto dell'omologazione sia esterno a quello della ruota sostitutiva del costruttore. Ove mai tale condizione non si verificasse sarebbe invece necessario procedere a verifica delle tolleranze tra profilo ruota e profili di ingombro interno, ovvero verificare che:

- 1) luce minima per i componenti dei freni (caso peggiore, ad esempio con nuove guarnizioni per freni): > 3 mm
- 2) luce minima per i componenti della sospensione (ad esempio, bracci superiori e inferiori della sospensione): > 4 mm;
- 3) luce minima per i componenti dello sterzo (ad esempio, tirante trasversale e snodi del gruppo leveraggio dello sterzo): > 4 mm;
- 4) luce minima tra i pesi di equilibratura e i componenti del veicolo: > 2 mm.

#### VERIFICA

Per garantire quanto richiesto dalla norma, occorre individuare le ruote del costruttore per il/i veicolo/i su cui la ruota in omologazione è destinata ad essere montata.

CASO	Designazione Internazionale del cerchio International wheel description		Size	ET	PCD	CB	Vehicle Type (*)	Vehicle Model Name (*)	Approval No.
	Varianti	Versioni							
A	1	TUTTE	9Jx19 EH2+	48	5x120	74,1	Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2001/116*0420	e1*70/156-2001/116*0420	
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420	
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0323	e1*2007/46-371/2010*0323	
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0412	e1*2007/46-371/2010*0412	
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-678/2011*0412	e1*2007/46-678/2011*0412	
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0421	e1*2007/46-371/2010*0421	
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420	

## Ruota Tipo – Wheel Type : BM74 9,0x19

B	2	TUTTE	9Jx19 EH2+	48	5x120	72,6	Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2001/116*0153	e1*70/156-2001/116*0153
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-98/14*0153	e1*70/156-98/14*0153
C	3	TUTTE	9Jx19 EH2+	18	5x120	72,6	Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0323	e1*2007/46-371/2010*0323
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0412	e1*2007/46-371/2010*0412
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-678/2011*0412	e1*2007/46-678/2011*0412
D	4	TUTTE	9Jx19 EH2+	51	5x120	72,6	Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2001/116*0249	e1*70/156-2001/116*0249
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2006/96*0249	e1*70/156-2006/96*0249
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2007/37*0249	e1*70/156-2007/37*0249
E	5	TUTTE	9Jx19 EH2+	37	5x120	74,1	Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2001/116*0420	e1*70/156-2001/116*0420
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2006/96*0420	e1*70/156-2006/96*0420
							Vehicle Type and Vehicle Model Name under approval No. e1*70/156-2007/37*0420	e1*70/156-2007/37*0420
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-385/2009*0172	e1*2007/46-385/2009*0172
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0421	e1*2007/46-371/2010*0421
D	6	TUTTE	9Jx19 EH2+	37	5x120	72,6	Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-385/2009*0172	e1*2007/46-385/2009*0172
							Vehicle Type and Vehicle Model Name under approval No. e1*2007/46-371/2010*0172	e1*2007/46-371/2010*0172

(\*) More Info : [www.wspitaly.com](http://www.wspitaly.com)

In tutti i casi lo specifico componente della Famiglia in omologazione ha profilo esterno alla ruota sostitutiva del costruttore. Pertanto non occorre dare luogo alla verifica dei profili di ingombro. (Vedi allegato 3B).

### 2.1 Wheel Calliper Check

The wheel calliper check is referred to the inner contour of the wheel and the space for the suspension, steering and brake components of the vehicle on which the wheel must be mounted.

In the case where the calliper is outside the vehicle manufacturer's replacement wheel calliper, isn't necessary to carry out a check of wheel operating clearance respect to brake, suspension and steering components.

