

UN R90 Homologation

European Homologation of Replacement Brake Discs and Drums



United Nations



THE COMPANY

Applus IDIADA is an officially recognized Technical Service for European Approval of vehicles and components.

Applus IDIADA is accredited for the whole list of European EU Directives and UN/ECE Regulations applicable to all vehicle categories and has a high level of international recognition. We are also able to carry out tests according to standards valid for self-certification.

Testing and homologation of components is one of the company's main areas of expertise.



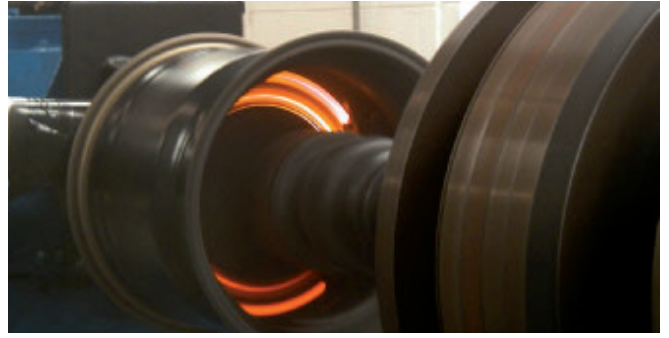
Applus IDIADA is a member of the Working Groups in Geneva (United Nations) and Brussels (European Union) where vehicle regulations are created and developed.



A single organization able to adapt its international resources to meet each project needs



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HOMOLOGATION SERVICE

Applus IDIADA is one of the most active European Technical Services in the field of braking systems and brake components homologation.

All replacement brake drums and discs intended for use in friction brakes have to be separated in 4 groups, depending on geometric, chemical and mechanical properties. The number of tests necessary for compliance with the Regulation depends on which of the 4 categories the replacement disc or drum belongs.

DRUM/DISC GROUP

TEST PARAMETER	DRUM/DISC GROUP			
	OES	Identical	Equivalent	Interchangeable
Thermal Fatigue Test	Not Required	Not Required	Required*	Required*
High Load Test	Not Required	Not Required	Required*	Required*
Performance Test R13/13H	Not Required	Not Required	Not Required	Required**
Friction Comparison Vs. OE	Not Required	Not Required	Not Required	Required**

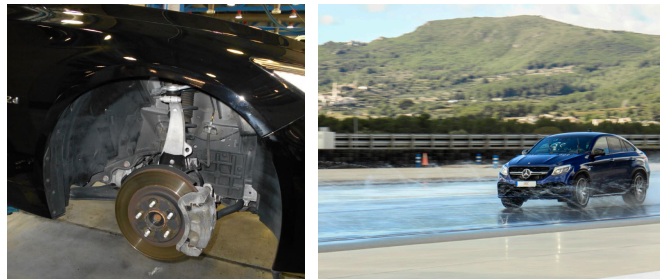
*Dynamometer test

**Vehicle test or alternative dynamometer test

Our proving ground facilities together with our brake dynamometer laboratory allow us to guarantee a tailor-made service according to each client requirements.

Complete R90.02 entry into force: Regulation (EC) 661/2009 amended by Regulation (EU) 2019/2144

The dates for compliance according to R90 for replacement parts sold after a certain date are:



VEHICLE CATEGORY	Replacement brake discs	Replacement brake drums
M1/N1	01/11/2016	01/11/2016
O1/O2	01/11/2016	01/11/2016
M2/M3/N2/N3	01/11/2014	01/11/2016
O3/O4	01/11/2014	01/11/2016
L	Not mandatory	Not mandatory

Example

Approval Code E9-90R-02 A0001/0001
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CONTACT INFORMATION

Headquarters & Technical Centre · L'Albornar - PO Box 20 · E-43710 Santa Oliva (Tarragona) Spain

For further details, please contact: info@idiada.com +34 977 166 016



www.idiada.com