

Brakes - Requirements of friction test benches for the international certification of brake pads and brake blocks

Appendix I

UIC approved friction test benches

The tables given in this appendix:

- are updated regularly,
- correspond to the above date of update.



Appendix I – UIC approved friction test benches

Owner	Location	Designation	Category of bench		Vmax ¹ Kph	rpm	Documentation	Date of approval	Expiry date
			D	K	See RP 18				
Independent test benches (railway benches)									
DB	Minden		X	X	370	2200	B 126/RP 47	January 1998	January 2020
FS (ITCF)	Florence		X	X	250	1500	B 126/RP 47	January 1999	January 2020
PKP (IK)	Warsaw		X	X	420	2500	B 126/RP 47	January 2001	January 2020
SNCF	Vitry	MF1	X	X	350	2100	B 126/RP 47	January 1998	January 2020
SNCF	Vitry	MF3	X	X	450	2900	B 126/RP 47	January 1998	January 2020
ZSSK	Žilina		X	X	350	2100	B 126/RP 47	January 2001	January 2020
RTA	Vienna			X ²	280		B 126 RP W1	January 2015	January 2020
Manufacturers' test benches ⁽³⁾									
Federal Mogul	Glinde	lk 3/3		X	220	1325	B 126 RP N15	June 2011	June 2021
Federal Mogul	Glinde	lk 3/8	X		500	3000	B 126 RP N15	January 2012	June 2021
Wabtec	Avellino ⁽⁴⁾	3.5.6		X	210	1250	B 126 RP C2	January 2012	January 2022
Knorr-Bremse	Munich	KBM-RPS 1	X		400	3000	B 126 RP G5	January 2013	January 2018
FT	Gennevilliers	SRE 46	X	X	500	2400	B 126 J2	April 2013	April 2018
Wabtec	Avellino	065	X		500	3400	B 126 RP C6	June 2013	June 2018
ICER	Pamplona	A0004083.01		X	200	1250	B 126/RP P2	April 2015	April 2020

D – disc brakes
 K – block brakes

¹ Maximum speed to be simulated

² Approved only to perform brake tests of composite brake blocks under winter conditions as requested by test program A5 of Leaflet 541-4

⁽³⁾ not approved for the certification of own friction products

⁽⁴⁾ mechanical flywheel simulation only

Notes concerning updates:

Date of update	Body	Decision
07.04.2004	CTR Steering Committee	Creation of a UIC webpage for UIC-approved components; Removal of the corresponding appendices from the relevant UIC leaflets
01.09.2004	SC 5, "Braking and Running Gear" Session of July 2004	First publication on UIC website of the tables extracted from UIC Leaflet 541-3, 5th edition, Appendix H.6; Details added of the tests since repeated for the Bucharest, Prague, Minden, Florence, Vitry MF1 and Vitry MF3 test benches (SC 04, session of January 2004, points 18.1 to 18.5).
01.04.2006	SG 5, "Braking and Running Gear" Session of January 2006 Point. 3.5	Execution of the tests repeated for the purpose of extending approval for the Warsaw and Zilina test benches
01.05.2010	SET 7, "Braking" Session of January 2010 Point. 3.1.2	Confirmation of the tests repeated for the purpose of extending approval for the Bucharest, Minden, Florence, Warsaw, Vitry and Žilina test benches
26.07.2010	SET 7, "Braking" Session of January 2010 Point 3.1.2	Correction of the details of the owner of the Žilina bench
24.01.2013	SET 7, "Braking" Session of January 2013 Point 3.1.7	Recast of appendix and addition of manufacturers' test benches
18.06.2013	SET 7, "Braking" Session of June 2013 Point 3.2.5	Introduction of the CoFren test bench 065 in Avellino
22.01.2015	SET 7, "Braking" Session of January 2015 Point 3.2.3 & 3.4.2	Introduction of winter brake test facilities for composite brake shoes of RTA in Vienna. Renewal of certification of test benches of DB, FS, PKP, SNCF (MF3) and ZSSK
15.04.2015	SET 7 „Braking“ E-Mail-inquiry from 23.3.2015	Introduction of the ICER Brakes test bench A0004083.01 in Pamplona
02.07.2015	SET 7, "Braking" Session of July 2015 Point 3.4.2	Extension of the certification of test benches of FS and SNCF (MF1 & MF3) for the certification of brake blocks
01.03.2016	SET 7, "Braking" Session of January 2016 Point 2.11	Extension of the certification of the test bench of SNCF (MF1) for the certification of brake pads
01.07.2016	SET 7, "Braking" Session of July 2015 Point 2.9 Point 3.4.2	Conversion of Appendix H.6 of UIC Leaflet 541-3 into Appendix I of UIC Leaflet 548; Extension of the certification of the test benches of Federal Mogul for brake blocks (lk 3/3) and brake pads (lk 3/8) in Glinde/Germany
01.02.2017	SET 7, "Braking" Session of January 2017 Point 3.2.6	Renewal of certification of the test bench 3.5.6 for brake blocks of CoFren in Avellino/Italy