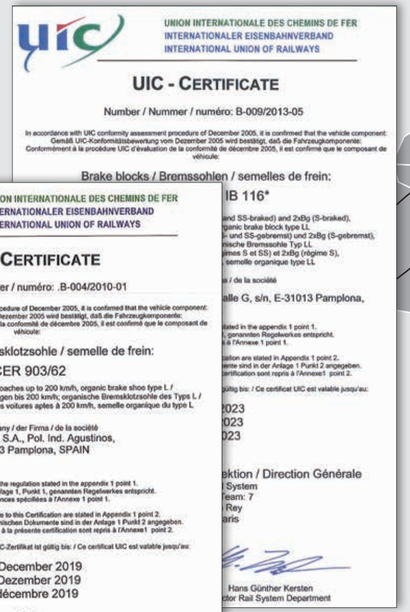
FRICTION BLOCKS RAIL VEHICLE SYSTEMS

UIC HOMOLOGATION AND PARTICIPATION IN EUROPETRAIN PROJECT.

ICER Rail has achieved IB116* homologation and supported the international "EUROPETRAIN" project, which covers all European operating conditions.

>> READY FOR APPLICATION.



UNION INTERNATIONALE DES CHEMINS DE FER
INTERNATIONALER EISENBAHNVERBAND
INTERNATIONAL UNION OF RAILWAYS

UIC - CERTIFICATE

Number / Nummer / numéro: B-009/2013-05

In accordance with UIC conformity assessment procedure of December 2005, it is confirmed that the vehicle component:
Gemäß UIC-Konformitätsbewertung vom Dezember 2005 wird bestätigt, daß die Fahrzeugkomponente:
Conformément à la procédure UIC d'évaluation de la conformité de décembre 2005, il est confirmé que le composant de véhicule:

Brake blocks / Bremssohlen / semelles de frein:

IB 116*

UNION INTERNATIONALE DES CHEMINS DE FER
INTERNATIONALER EISENBAHNVERBAND
INTERNATIONAL UNION OF RAILWAYS

UIC - CERTIFICATE

Number / Nummer / numéro: .B-004/2010-01

In accordance with UIC conformity assessment procedure of December 2005, it is confirmed that the vehicle component:
Gemäß UIC-Konformitätsbewertung vom Dezember 2005 wird bestätigt, daß die Fahrzeugkomponente:
Conformément à la procédure UIC d'évaluation de la conformité de décembre 2005, il est confirmé que le composant de véhicule:

Brake shoe / Bremsklotzsohle / semelle de frein:

ICER 903/62

for supplementary block brake of coaches up to 200 km/h, organic brake shoe type L /
für die Zusatzklotzbremse von Reisezugwagen bis 200 km/h; organische Bremsklotzsohle des Typs L /
pour le frein à sabots supplémentaire des voitures apteés à 200 km/h, semelle organique du type L

of the company / der Firma / de la société
ICER Brakes S.A., Pol. Ind. Agustinos,
E-31013 Pamplona, SPAIN

meets the requirements of the regulation stated in the appendix 1 point 1.
den Anforderungen des in der Anlage 1, Punkt 1, genannten Regelwerkes entspricht.
satisfait aux exigences spécifiées à l'Annexe 1 point 1.

The technical documents applicable to this Certification are stated in Appendix 1 point 2.
Die für diese Zertifizierung geltenden technischen Dokumente sind in der Anlage 1 Punkt 2 angegeben.
Les documents techniques applicables à la présente certification sont repris à l'Annexe1 point 2.

This UIC Certificate is valid until. / Dieses UIC-Zertifikat ist gültig bis: / Ce certificat UIC est valable jusqu'au:

31st December 2019
31. Dezember 2019
31 décembre 2019

UIC
General Directorate / Generaldirektion / Direction Générale
Department Rail System
Sector Expert Team: 7
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F-75015 Paris

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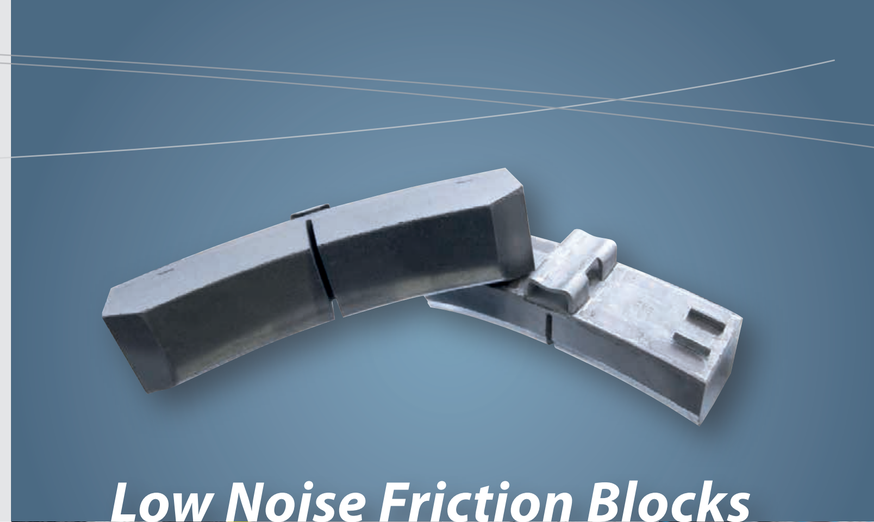
P-1292-EN 09.2014



Low Noise Friction Blocks

APPLICATIONS

Cast Iron Replacement
Freight Cars | Passenger Coaches | Locomotives

IcerRail

KNORR-BREMSE

ICER RAIL ORGANIC BRAKE BLOCK

- Low Noise
- CI block substitution (low friction)
- Extended life time
- 70% lower weight than CI block
- No jerking - stable friction levels
- No sparking

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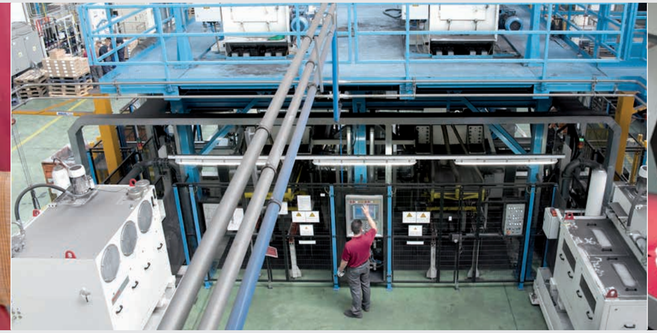
Urheber: Pablo Castagnola



LL-BLOCK

has been in use for more than 15 years to replace CI blocks in domestic operations. Original reason was to stabilize friction levels and eliminate sparking.

ICER RAIL IB116* (UIC)

- UIC-certified friction performance (also for winter conditions)
- TSI approved since May 2013
- No extra wagon approval needed

L-BLOCK

has been in use for more than 10 years to replace CI blocks in passenger coaches.

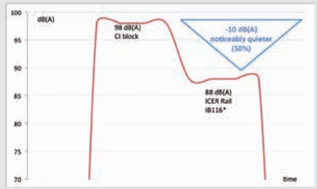
ICER RAIL 903/62 (UIC)

- UIC-certified friction performance (also for winter conditions)
- TSI-approved since January 2010

ENVIRONMENTAL PROTECTION – A REASON TO CHANGE

LOW NOISE EMISSIONS

The blocks have an improved impact on the wheel. The polished wheel surface rolls with lower noise over the tracks. Perceived rolling noise levels are reduced by 50% compared with CI blocks.



Noise reduction by approx. 10dB

LOW WEIGHT

The ICER Rail organic block has a much lower weight (70%) compared to CI-blocks.

- Block replacement: easier handling for workers
- 12 > 4 kg
- Reduced weight means greater transportation efficiency or lower energy consumption

NO SPARKS

CI-blocks have a higher tendency to spark during brake application. The organic LL-block from ICER Rail generates no sparks and protects the environment from fire hazards.

LEADING MANUFACTURING TECHNOLOGY AT ICER RAIL

> MODERN PRODUCTION

> HIGH QUALITY

> HIGH CAPACITY

AUTOMATED PRESS CENTER

One of the most advanced production presses was installed in 2013 at ICER Rail.

- Automated material handling
- Automated weighing & filling
- Computer controlled process flow
- Sensor-monitored process parameters
- Oven-ready - without manual interaction