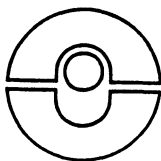


INTERNATIONAL



UNION OF RAILWAYS

UIC CODE

V - TRANSPORT STOCK

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**TECHNICAL CONDITIONS WITH WHICH
AUTOMATIC COUPLERS OF THE UIC
AND OSJD MEMBER RAILWAYS MUST
COMPLY IN ORDER TO ENSURE
COMPATIBILITY OF COUPLERS**

 **Documents**
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(1) Confirmed by the UIC and the OSJD for wagons

(2) Confirmed by the OSJD for coaches

(3) The UIC has so far taken no decision regarding the type of articulation for coaches

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(1) To be added later

1. FOREWORD AND SCOPE

This leaflet defines the technical conditions with which automatic couplers for wagons and coaches covered by a UIC/OSJD agreement must comply during the initial service period on the UIC member railways and the member railways of the OSJD having a 1 435 mm track gauge, in order to :

- ensure compatibility of automatic couplers with each other and with coupler SA3 and mixed couplers ;
- meet train operation and shunting requirements;
- guarantee interchangeability.

Automatic couplers of SZD vehicles need only comply with the conditions concerning compatibility of automatic couplers with each other, with the SA3 coupler and mixed couplers, and with train operation and shunting requirements.

The Organisations and the Railways may adopt additional conditions concerning compatibility, provided they do not contravene the stipulations of this leaflet.

Amendments or additions to this leaflet must be covered by an agreement between the UIC and the OSJD.

This leaflet is published by the OSJD under no. 522/4.

2 - GENERAL CONDITIONS

2.1 - Automatic couplers and all the sub-assemblies required for their proper functioning must be designed to operate for a period of at least six years without requiring maintenance (1). The general aim should be an even longer period of maintenance-free operation.

(1) For the operating device of the unlocking system the notion of "period without maintenance" does not include ordinary day-to-day maintenance to be carried out during service hours if required, such as oiling and cleaning of the parts subject to particularly heavy wear.

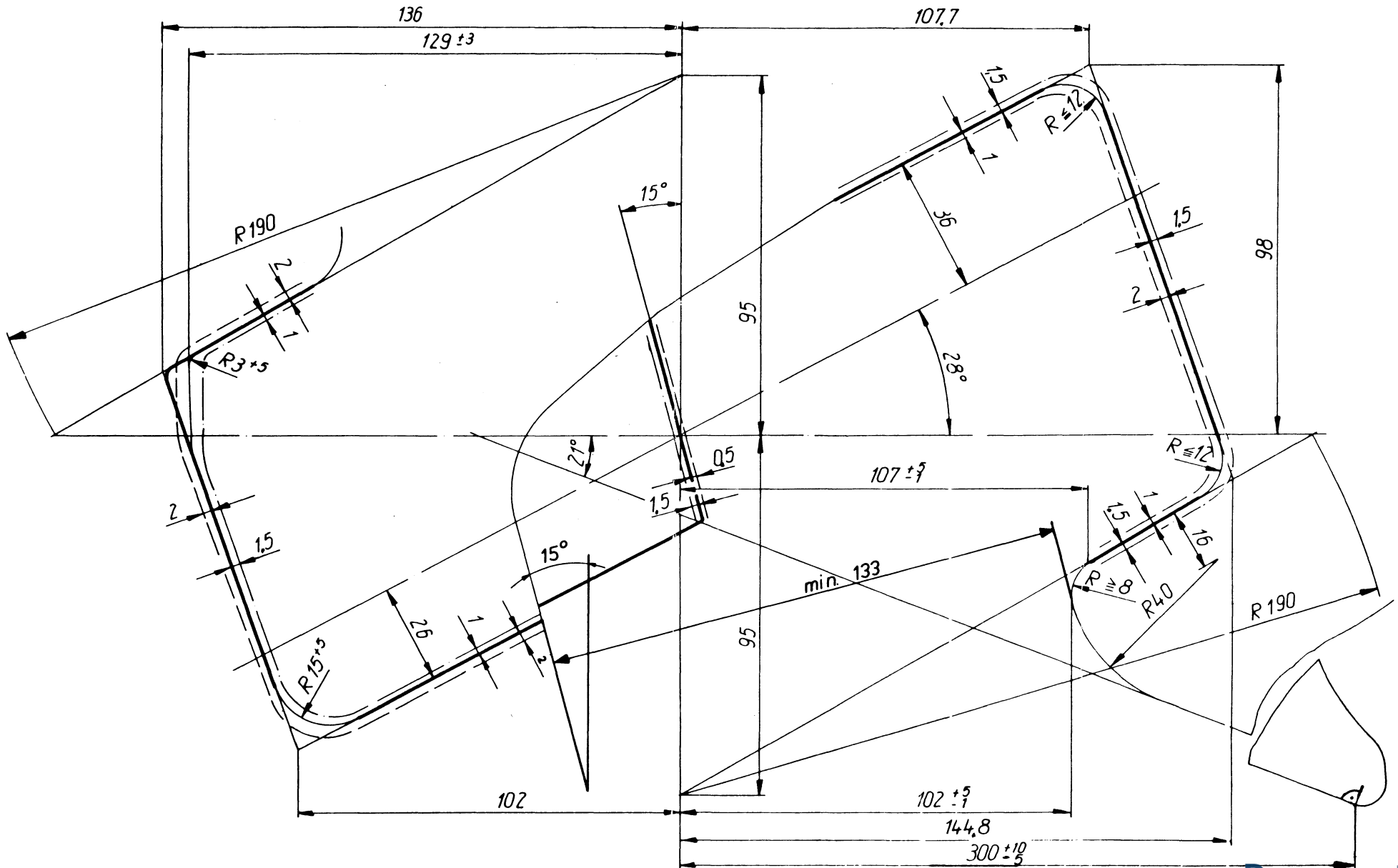
2.2 - Automatic couplers and the sub-assemblies required for their proper functioning must operate correctly within a temperature range of -40°C to $+70^{\circ}\text{C}$.

2.3 - Addition of parts to the automatic coupler must not restrict compatibility.

3 - TECHNICAL CHARACTERISTICS

Automatic couplers for wagons and coaches must have the following technical characteristics : (see Appendices 1 to 21).

MAXIMUM DIMENSIONS FOR THE COUPLER PROFILE AND LOCK



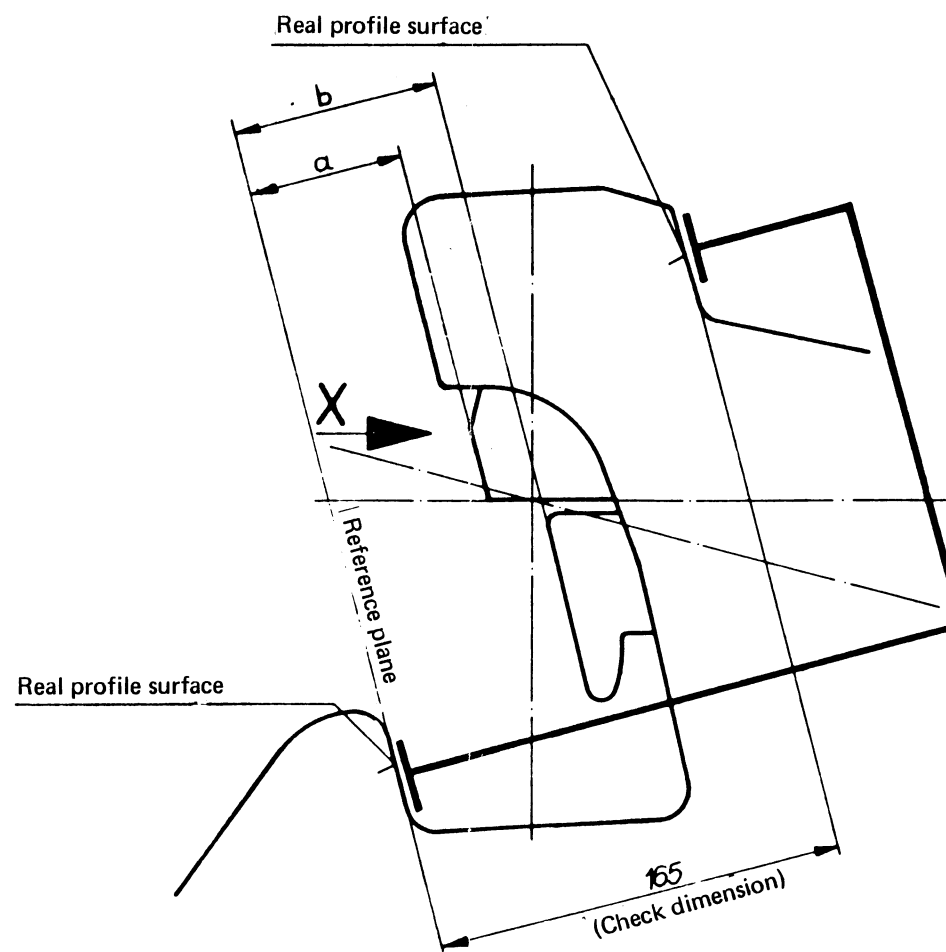
- SA3 Nominal profile
- - - Maximum manufacturing dimension
- Limit dimension in operation

LIMIT POSITIONS FOR THE LOCK AND LOCK-HOLDER

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APPENDIX 2



Dimension a : $a \geq 52$ in "Ready for coupling" position
 $61 \leq a \leq 71$ in "Coupled" (locked) position, when the lock is moved in direction X.
 $a \geq 111$ in "Coupling impossible" position and in "Unlocked" position or
 $a \geq b$ when against opposite profile

Dimension b : For all positions of lock-holder of 96mm or more
 Locking of lock in "Coupled" position and maintenance of lock in "Unlocked" position"

GUIDING AND STIFFENER SURFACES

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APPENDIX 3

