

C O N T E N T S

1. SCOPE
2. REFERENCE DOCUMENTS
3. MARKING REGULATIONS
4. NAME-PLATE SUPPORT
5. STANDARD NAME-PLATE SUPPORT
6. LIST OF APPENDICES

END OF DOCUMENT

1. SCOPE

The aim of this specification is to describe marking regulations and characteristics for equipment at the Koeberg Nuclear Power Plant, excluding Civil Works structures and electrical and instrumentation and control equipment.

2. REFERENCE DOCUMENTS

- KBA 00 00 G 00 032 "Liste des systèmes élémentaires"
- KBA 00 00 G 00 036 "Système d'identification des équipements"
- KBA 00 A1 G 03 001 "Functional colour coding of equipment"

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3. MARKING REGULATIONS (COLOUR AND TYPE OF FLUIDS)

Background colours correspond to the different types of fluid transported.

The colours used for the nameplates and engravings are as follows :

NAME-PLATE COLOUR	ENGRAVING COLOUR	SYSTEMS	RELEVANT EQUIPMENT
Green	White	Water	Feed Borated Raw Circulation System Demineralized Reactor Coolant Potable condensates
Light Brown	White	Oils and fuels	Oil Fuel
Yellow ochre	Black	Gas	Nitrogen Hydrogen Carbon Dioxide Other gases
Light blue Purple (or Dark blue)	White White	Air Acid and bases	Air Reagents SIR
Silver Grey	Black	Steam	Steam
Red	White	Water	Fire system
White	Black	Miscellaneous equipment and sensors	Any system not defined as a trigram

4. NAME-PLATE DESCRIPTION

4.1 Base materials

Name-plates will consist of laminated sheets of material bonded together in layers of different colours.

4.2 Wording

Wording on name-plates will be in English (abbreviations are permitted), and Afrikaans, whenever stated by ESKOM.

4.3 Engraving

The letters will be engraved in capital letters. Characters on the same line must have the same height.

4.4 Dimensions (see Appendix 1)

Name-plates will measure 100 × 50 × 1,5 mm.

The size of the name-plate may be made larger to accommodate special requirements. Size to be agreed between Departments concerned.



4.4.1 Item number

The nine characters of the item number (pressure vessel components and valves) are arranged on the upper line and have the following dimensions:

100 × 50 plates

height of characters: 10 mm

width of characters: 5 mm

width of engraving: 1 to 1,2 mm

4.4.2 Train identification

The characters used for train identification are engraved on the second line. Their dimensions are:

height of characters: 5 mm

width of characters: 5 mm

width of engraving: 1 to 1,2 mm

4.4.3 Component identification

The characters used for identification are engraved on the two lower lines.

The first line identifies the component in English and the second in Afrikaans , whenever stated by ESCOM. Their dimensions are :

height of characters : 5 mm
width of characters : 5 mm
width of engraving : 1 to 1,2 mm

5. STANDARD NAME-PLATE SUPPORT

5.1 Description

Only one type of support will be used: 12/10mm stamped stainless steel.

Four 9,5 x 2mm slots are provided to allow a clamp to pass through in the vertical or in the horizontal direction.

Appendix 2 describes the standard support.

5.2 Attachment of supports

The supports will be attached to the pipe or to a frame near the valve or item of equipment by means of the "Serflex" stainless steel clamp (Appendix 3).

For heat-insulated equipment, the support will be attached :

- by a clamp fixed to the pipe and surrounding the heat insulation if diameter is less than 250 mm.
- or by a stainless steel bar with dimensions 128 x 9 x 1,2 or 78 x 9 x 1,2mm, attached by two rivets to the heat-insulation protective plate. This type of attachment can be used for insulated pipes of all diameters.

6. LIST OF APPENDICES

APPENDIX 1 : Standard Name-plates

APPENDIX 2 : Standard Name-plates Support

APPENDIX 3 : Type of attachment

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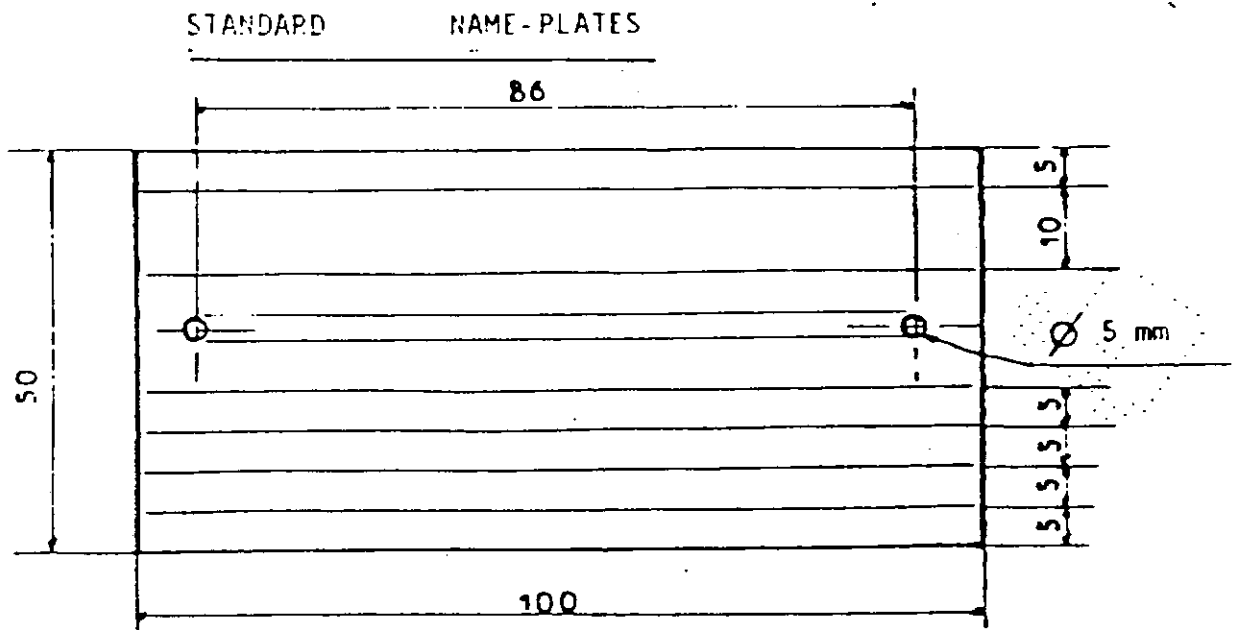


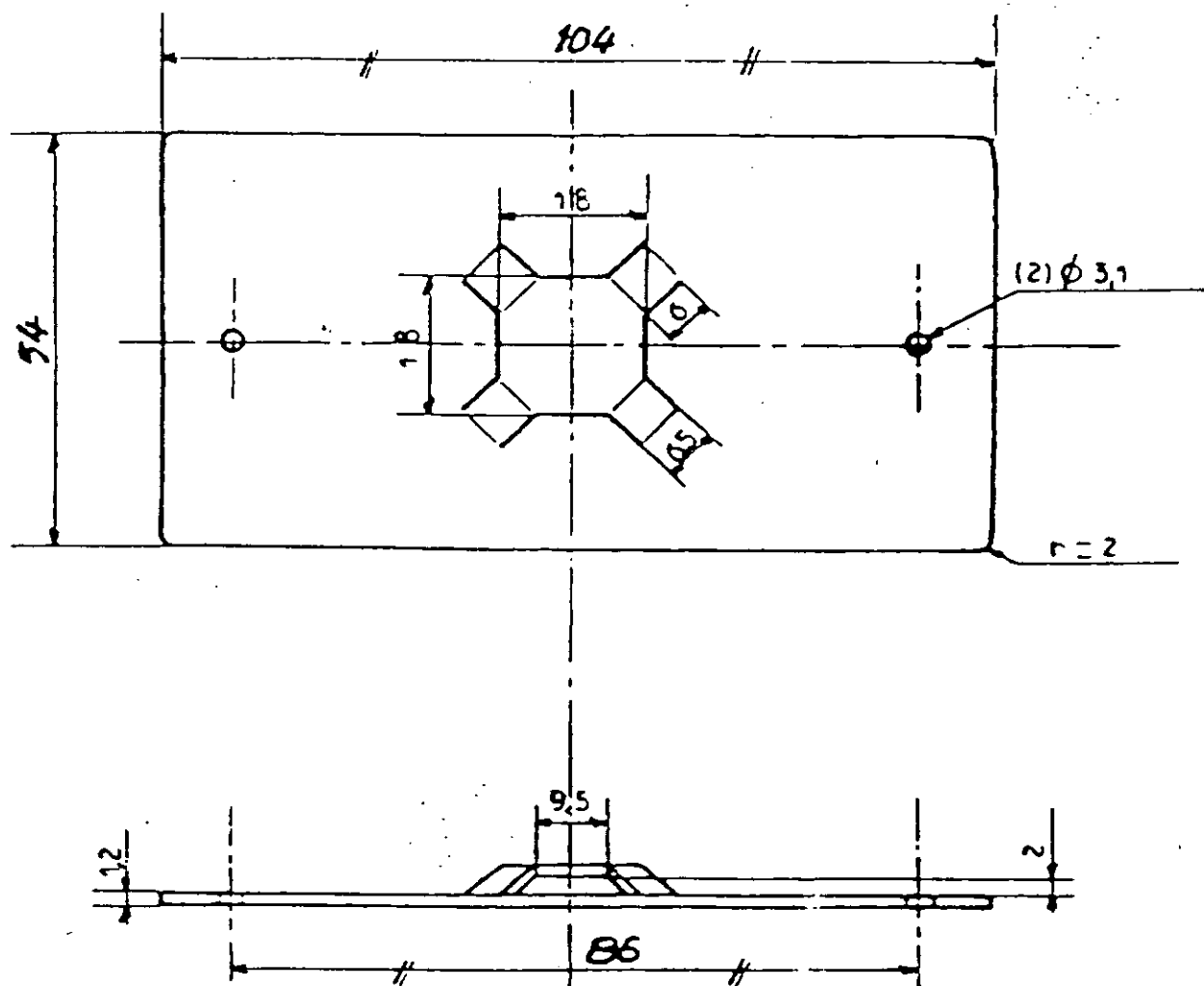
Fig. 1A: Standard Name-Plate Dimensions

<div style="font-size: 24px; font-weight: bold; margin-bottom: 10px;">1 RCP 615 VP</div> <div style="font-size: 18px; margin-bottom: 10px;">. . TRAIN A</div> <div style="border-top: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-top: 1px dashed black; height: 15px; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; height: 15px;"></div>	<div style="border-bottom: 1px solid black; margin-bottom: 5px;">Item Number</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Wording</div> <div style="margin-bottom: 5px;">English Abbreviation</div> <div>Afrikaans</div>
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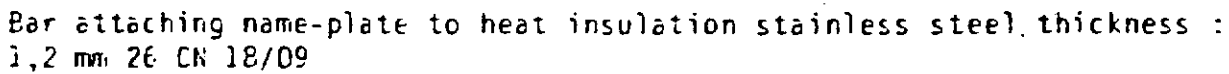
Fig. 1B: Component identification

B O R G I O N E

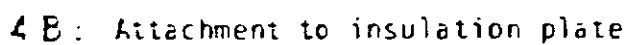
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4.A : Attachment by means of bar



Appendix 3 - KBA F 00 001 - Rev 2