



Elettra Sincrotrone Trieste

SPECIFICATION DOCUMENT No. 087

Technical specifications for grouting machine supports

AUTHOR

D. BARON , A. BUONANNO , I. CUDIN ,
P. FURLAN RADIVO , G. LODA , M. STOLFA

Date of Submission 26-9-2013

Date of Review 26-9-2013

Review Number 0

Date of Publication 01-10-2013

PLEASE NOTE: This is an English courtesy translation of the original documentation prepared in Italian language.
Only the original version in Italian language has legal value



Elettra Sincrotrone Trieste

Table of Contents

1 Introduction.....	3
2 Technical specifications.....	3

PLEASE NOTE: This is an English courtesy translation of the original documentation prepared in Italian language.
Only the original version in Italian language has legal value



Elettra Sincrotrone Trieste

1 Introduction

This document specifies the processes to be followed for grouting machine supports within the laboratories of Elettra-Sincrotrone Trieste S.C.p.A. (Electra). If any necessary modifications and/or variations from these specifications are required, they must be submitted for approval to the Elettra Technical Office and Infrastructure Group. This document is the exclusive property of Elettra.

2 Technical specifications

- 1) Grouting will only involve a machined counter-plate of adequate thickness (15-25mm).
- 2) If the counter-plates are necessarily separated, it is a good idea to provide a template that facilitates assembly and mutual alignment.
- 3) The altimeter adjustment will be carried out using nr. 3 screws of suitable diameter (M8-M10) suitably protected (with plenty of grease and rubber hose) to be removed once the casting has fully matured.
- 4) There must be 5 holes diameter 6mmH7 (1 central + top of the plate) for the use of the alignment references. The holes must be protected from grouting.
- 5) The counter-plate will have the necessary threaded holes for fixing the actual support; the threaded holes must be suitably protected from grouting by means of adhesive tape on the lower face.
- 6) The counter-plate must include one or more holes for pouring the grouting with a minimum diameter of 100mm.
- 7) The space under the counter-plate (lower edge of the floor-plate) for grouting must be a minimum of 25 mm and a maximum of 35 mm, in relation to the actual height of the floor in the area of installation of the product to be detected in the design phase.
- 8) The grouting will be contained using painted steel formwork with a height not exceeding the extrados height of the counter-plates, and overall dimensions equal to the dimensions of the counter-plates increased by 50mm (which can be reduced as necessary) for each side. The formwork will be sealed to the floor with mastic and fixed using internal dowels.

PLEASE NOTE: This is an English courtesy translation of the original documentation prepared in Italian language.

Only the original version in Italian language has legal value



Elettra Sincrotrone Trieste

- 9) The foundation tie rods must be appropriately sized in accordance with the design requirements, of a minimum length sufficient to guarantee anchoring to the underlying foundation.
- 10) The holes for housing the foundation tie rods will have dimensions of 1.5 x tie rod diameter; oversized washers will be used.
- 11) The holes for fixing the support will be sized 1.5xdiameter of the counter-plate threaded hole + oversized washer.
- 12) The part of the counter-plate that remains exposed after the installation of the support must be protected from oxidation with suitable painting.

PLEASE NOTE: This is an English courtesy translation of the original documentation prepared in Italian language.
Only the original version in Italian language has legal value