Certification of Nippon Steel Sheet Piles to BS.EN 10248 Pt 1 & Pt 2

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Testing
Advising
Assuring
## Revision History

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</tbody>
</table>
Contents

1.0 INTRODUCTION ........................................................................................................................................... 4
2.0 INVESTIGATION AND RESULTS .................................................................................................................. 4
3.0 CONCLUSIONS ............................................................................................................................................... 4
1.0 INTRODUCTION

On behalf of Sheet Piling (UK) Ltd, Exova were commissioned to certify samples of Japanese Nippon Steel Sheet Piles to the relevant European Standards for Hot Rolled Sheet Piling (i.e. BS-EN 10248 Part 1 & Part 2).

Sheet Piling (UK) Ltd provided 3no samples for testing from Nippon Steel Sheet Piles from Cast No ZBK109.

2.0 INVESTIGATIONS AND RESULTS

Exova carried out the following testing on the samples provided.

a. Mechanical Testing (1no sample tested)
   - Tensile Test to BS.EN ISO6892-1:2009
   - Charpy Test to EN/875/EN10045-1

b. Chemical Testing (1no sample tested).
   - Chemical analysis to verify sample chemical composition.

c. Dimensional Check (3no samples tested).
   - Full detailed dimensional check carried out to dimensions and tolerances specified in BS.EN 10248 Part 2 for U shaped cross section.
   - It is noted that the dimension checks for 'h' and 'b' were carried out to outside face of pile rather than centerline of clutch.

NOTE: Dimensional checks are outside the scope of our UKAS Accreditation and were provided for information only.

Individual results of the mechanical and chemical testing together with dimensional checks are presented within this report in the LIMS Certificate Ref No. N001834 Issue 1

The dimensions assuming centerline of clutch measurement are confirmed as follows:-
   - 'h' = 180mm
   - 'b' = 600mm

3.0 CONCLUSIONS

Following analysis of the above results, the following are concluded with respect to the Nippon Steel Hot Rolled Sheet Piles provided and tested:-

   a. The steel quality is confirmed at Grade S430GP to BS.EN 10248 Part 1.
   b. The product tolerance is confirmed to comply with the requirements of BS.EN 10248 Part 2
Report Signatories and Approval

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The results contained within this report have been reported in an abbreviated format. The test data and result sheets containing more detailed information in accordance with the technical works procedures or standards used are held at Exova as part of the accredited quality assurance system. Opinions and interpretations expressed herein are outside the scope of the UKAS accreditation of this laboratory.

Note: Submitted samples will be retained for a maximum of 3 months, they will then be disposed of in accordance with prevailing legislation, unless requested otherwise.