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## Monzon Modular – Incorporation of Layher Allround modular scaffolding components

### 1 Introduction

SP has been engaged by Mon.zon Development AB SP to investigate the extent to which Layher Allround modular scaffolding components can be incorporated into Monzon Modular modular scaffolding, SP type approval certificate no. 39 44 03 dated 28 February 2005.

The report relates to scaffolding in which the majority of components in the supporting structure specified in section 2 are Monzon Modular components.

### 2 Supporting structure components

The following components, which are included in the supporting structure, have been inspected by SP and are described in the German type approval certificate (Zulassung) for Layher Allround No. Z-8.22-64, dated 17 August 2000, and Z-8.1-175, dated 11 November 1987.

Rosette with node K2000+	Z-8.22-64, Z-8.1-175 ZAR 15
Bottom bolt and bottom unit	Z-8.1-175, ZAR 16
Horizontal stay and reinforced horizontal stay	Z-8.1-175, ZAR 17
U-crossbar and reinforced U-crossbar	Z-8.1-175, ZAR 18
Diagonal stay	Z-8.1-175, ZAR 19
Floor diagonal	Z-8.1-175, ZAR 20

The above components are marked with "LAYHER", the year of manufacture (2 digits) and "Ü 64".

### 3 Documentation for evaluation

The following investigations have been carried out to assess whether Layher Allround components can be incorporated without affecting safety:

1. Comparative rigidity and load bearing capacity tests of nodes with beam-rosettes combined with Modular-Modular, Modular-Allround, Allround-Modular and Allround-Allround, report P403581B.
2. Comparative rigidity test of vertical diagonal-rosettes combined with Modular-Modular, Modular-Allround, Allround-Modular and Allround-Allround, report P501656A.

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3. Identification test with measurement of dimensions and the determination of relevant strengths of rosettes, beams and vertical diagonals, report P501656B.
4. Global calculation of Monzon Modular with incorporation of Layher Allround components incl. comparison of dimensions and material qualities, report P501656C.
5. Layher drawings taken from German type approval Zulassung No. Z-8.22-64, dated 17 August 2000, and Z-8.1-175, dated 11 November 1987.

All materials and documentation used in the investigations have been supplied by Mon.zon Development AB.

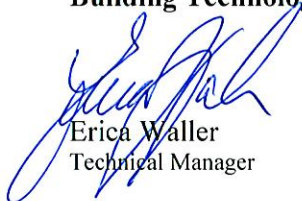
#### **4 Conditions for incorporation**

With respect to load bearing capacity, it is considered that the Layher components specified above can be used in Monzon Modular modular scaffolding under the conditions specified in SP type approval certificate no. 39 44 03 dated 28 February 2005.

It is considered that Layher Allround components which do not affect the global load bearing capacity, which have materials, dimensions and designs which match Monzon Modular and which are type approved, can be incorporated. I.e. platforms and brackets.

If Mon.zon Modular or Layher Allround components are revised, the extent to which the revisions affect the safety of the installed scaffolding must also be assessed.

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