

SWEDISH TECHNICAL APPROVAL

1147/92

The product described below and production control has been found to comply with Building Regulations of the National Board of Housing Building and Planning (BBR) with reference to and under conditions described in this approval.

Plannja Combideck 45

Holder	Plannja AB, 570 81 Järnforsen, Phone: 010 - 516 10 00, Fax: 0495-505 25, Internet: www.plannja.se, VAT Number: 556121-1417.
Product	Concrete floor structure with profiled steel sheet as a combined formwork and reinforcement, called Plannja Combideck. Sheet designation S 320 GD+Z, with $F_{yk}=320$ MPa. Profile height 45 mm with sheet thickness 0.85 mm. The steel sheet is galvanized with zinc weight 275 g/m ² .
Intended use	Load-bearing concrete floor structure for residential buildings, offices and public buildings. Corrosion protection class C1-C2 according to SS-EN ISO 12944-2. Exposure class XO according to SS-EN 206-1.
Trade name	Plannja Combideck 45
Approval	The product has been found to meet the requirements in the following sections of the Building and Construction Regulations of the National Board of Housing, Building and Planning (BBR) and regulations and general advice on application of the European construction standards (EKS): BBR Fire resistance class* 5:23 EKS Section A, Durability 7 § Section F EN 1994-1-1, EN 1994-1-2 * Fire resistance class REI 30, REI 60, REI 90 in accordance with associated documents.
Associated documents	"Plannja Combideck 45, Dimensioneringsanvisning", dated December 2012. "Plannja Combideck 45, Teknisk information", dated December 2012. "Plannja Combideck 45, Montering och hantering", dated June 2012.

- Control** Production control is to be performed in accordance with instructions for control dated 29 August 2000. An independent inspection body audits the control.
Control agreement: Ref no. 210-96-0646. Inspection body: SP Technical Research Institute of Sweden.
- When the building proprietor performs inspection at the building site, he shall check the markings to ensure that the correct products have been supplied and that they are used in accordance with the requirements stated in the approval and the associated documents.
- Manufacturer** Production control includes the following site:
Plannja AB, Luleå.
- Marking** The product is to be marked at the factory. The marking consists of a sign/label on every product/packing supplied and includes:
- | | |
|---|-----------------------------|
| Approval holder/Manufacturing site | Plannja AB, Luleå |
| P-mark | ☐ |
| Certification body | SP SITAC |
| Product type designation | Plannja Combideck 45 |
| Approval number | 1147/92 |
| Consecutive manufacture No/date of production | nr/datum |
| Inspection body | SP |
- Basis for approval** Report "Full scale tests of the combideck floor system, preliminary report" dated 3/21/92 and "Results of resistance tests on Plannja Combideck 45" dated 1996 from Luleå University of Technology.
Report F425317, PX25149 and PX27404 from SP Technical Research Institute of Sweden.
Associated documents "Plannja Combideck 45, Dimensioneringsanvisning" dated December 2012 and "Plannja Combideck 45, Teknisk information" dated December 2012.
- Comments** This approval supersedes the previous certificate with the same number dated 25 October 2011, valid through 30 June 2012 and with project number PX16261.
- Period of validity** This approval is valid until 04 April 2018.



Leif Lundqvist



Krister Svensson