

SWEDISH TECHNICAL APPROVAL 1147/92

and decision on production control in accordance with 18-20 § Law (1994:847) on technical specification requirements for construction work, etc., BVL

KEY WORD: Concrete Structures
Floor Structures

PLANNJA COMBIDECK

Holder	Plannja AB, 971 88 LULEÅ, tel. 0920 - 929 00, fax. 0920 - 929 21, homepage: www.plannja.se, org. no: 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.		
Intended use	Load-bearing concrete floor structure for residential buildings, offices and public buildings. Corrosion classes C1, C2 and exposure class X0.		
Trade name	Plannja Combideck		
Approval	The product satisfy the requirements set forth in 2 § 1-9 BVL, in respect to and under conditions stated in this certificate, and are therefore approved in accordance with the provisions of the following sections of the Building Regulations (<i>BBR</i>) and of Design Regulations (<i>BKR</i>) issued by National Board of Housing, Building and Planning.		
		BBR	BKR
	Fire resistance class*	5:22	
	Requirements in the ultimate limit state, material failure and instability		2:111
	Requirements in the serviceability limit state, deformation and displacement		2:121
	Concrete structures, durability		7:11
	Characteristic material values for reinforcement		7:23
	Concrete structures, design in the ultimate limit state		7:31
	Concrete structures, design in the serviceability limit state		7:32
	Concrete Structures, reinforcement, prestressing tendons and embedded fasteners		7:43
	Steel Structures (Structures of thin gauge cold form steel sheet)		8
	Steel Structures, durability		8:12
	Steel Structures, characteristic values		8:22
	Steel Structures, design in the ultimate limit state		8:31
	Steel Structures, design in the serviceability limit state		8:32
	Determination of resistance by classification		10:21
	* Fire resistance class REI 30, REI 60, REI 90 in accordance with appurtenant documents.		

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Appurtenant documents	Plannja Combideck 45 reinforcement sheet, Technical information dated Sept 2006. Plannja Combideck 45 Design instruction dated June 2006.														
Control	<p>Production control is to be performed in accordance with instructions for control dated 29 August 2000 and registration number 82-0174/98. An independent third-party body, SP, Technical Research Institute of Sweden audits the control.</p> <p>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 requirements stated in the approval and the appurtenant documents. He must also check that the product is accompanied by a manufacturing assurance, which certifies that the product has been manufactured in accordance with the documents on which this certificate is based.</p>														
Manufacturer	Production control includes the following site: Plannja AB, Luleå.														
Marking	<p>The product is to be marked at the factory. The marking consists of a sign/label on every product/package supplied and includes:</p> <table><tr><td>Approval holder/Manufacture site</td><td><i>Plannja AB, Luleå</i></td></tr><tr><td>Boverket's registered trademark</td><td>†</td></tr><tr><td>SITAC's accreditation number</td><td>SITAC 1422</td></tr><tr><td>Product type designation</td><td>Plannja Combideck</td></tr><tr><td>Approval certificate number</td><td>1147/92</td></tr><tr><td>Consecutive manufacture no/date of production</td><td>no/date</td></tr><tr><td>Inspection body</td><td>SP</td></tr></table>	Approval holder/Manufacture site	<i>Plannja AB, Luleå</i>	Boverket's registered trademark	†	SITAC's accreditation number	SITAC 1422	Product type designation	Plannja Combideck	Approval certificate number	1147/92	Consecutive manufacture no/date of production	no/date	Inspection body	SP
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Boverket's registered trademark	†														
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Certificate No. 1147/92**Comments**

Building documents are drawn up for every item, based on the above named appurtenant planning documents.

This approval supersedes previous certificate with the same number dated 23 November 2000 and reg. no. 82-0174/98.

**Period of
validity**

This approval is valid until 24 November 2011.

The formal validity of an approval expires after the transitional period for the harmonised specification that makes it possible to CE-mark the product. However, the technical assessment showing that the product fulfils the requirements in the building regulations, issued by the Swedish National Board of Housing, Building and Planning, is not affected.



Johan Åkesson



Leif Lundqvist