ROFO FLODE



欲しい 屋頂 , 欲しい Rofo Think Roof, Think Rofo.



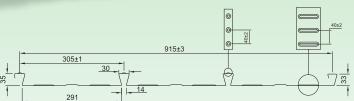








Imprint "FLODEK 35" for further recognition



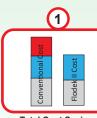




1. Advantages













Alkaline Environment Resistance



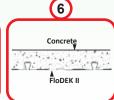




No messy prop & save cost of props



Use as Dry floor & Ceiling



Wet Floor



Clean, no leakage and cement waste (10)



Fast Concreting



Enhance Construction Safety (12)



Acoustic Robust Solution



Min props up to 4m span (during construction)



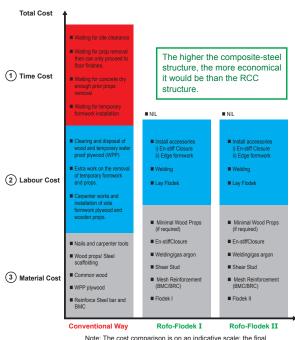
Flodek 35

Logo Imprint Further Recognition



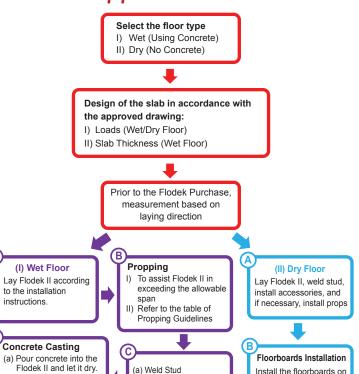
2. Cost

Cost Comparison of Slab Constructions



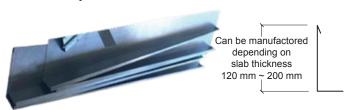
Note: The cost comparison is on an indicative scale; the final engineered design will determine an accurate comparison.

3. Application Flow



4. Accessories

A. End Cap Accessories



- Before casting concrete, cover the edge of Flodek II.
- Available thicknesses are 1.0 mm and 1.2 mm.

C. Shear Stud

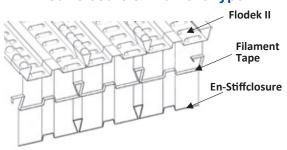
- Give the composite slab additional longitudinal shear resistance
- Enhance the composite action of concrete and Flodek II

B. En-Stiffclosure & Filament Type

(a) Weld Stud

(b) Place reinforcement

(c) Accessories installation



Install the floorboards on

top of the Flodek II

(act as ceiling top)

- En-Stiffclosure acts as a barrier to fill the space at the bottom of Flodek, strengthening its edge.
- Filament Tape secures and fits between Flodek and the en-stiffclosure.

	Shear Stud Specification				
— HD—	Туре	1	2	3	
ПТ НТ	Material Grade	Minimum of 350 MPa			
	Length (mm)	65	85	105	
Length	Head Diameter, HD (mm)	32			
	Head Thickness, HT (mm)	10			
	Body Diameter, BD (mm)	19			
⊢ BD ⊣	Standard	AWS D1.1/ D1.1M-2006 DIN EN ISO 13918 (Stud Welding Standard)			
Shear Stud	Spacing	95 mm c/c			
Specification	Installation Method	Electric Arc Stud Welding; Gas Shielding Arc Stud Welding			
Substitution	Туре	2" (length) x 3" (height) x 2" (width) L Angle as a replacement of stud		3"	

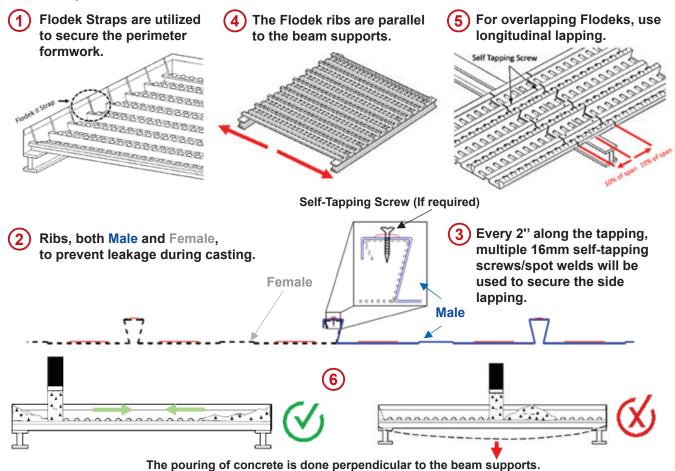
instructions.

(b) Flodek II is used as a

permanent formwork/ceiling

5. Installation Guidelines

Cost Comparison of Slab Constructions



6. Propping Guideline Table

01.1	Single Span Flodek II						
Slab Thickness	Max Span <u>Without</u> Prop (m)			Max Span <u>With</u> 1 Prop (m)			
111101111000	0.75mm thick	1.0mm thick	1.2mm thick	0.75mm thick	1.0mm thick	1.2mm thick	
90	1800	1900	2100	2200	2400	2500	
100	1700	1900	2000	2100	2300	2400	
110	1700	1800	1900	2000	2200	2400	
120	1600	1800	1900	2000	2200	2300	
125	1600	1700	1800	1900	2100	2300	
150	1500	1600	1700	1800	2000	2100	
170	1400	1600	1700	1700	1900	2000	
175	1400	1600	1600	1700	1900	2000	
190	1400	1500	1600	1700	1800	2000	
200	1300	1500	1600	1600	1800	1900	

Note:

- The propping guideline table is produced based on 26 kN/m³ unit weight which is the sum of 24 kN/m³ (normal concrete), 1 kN/m³ (wet concrete condition) and 1 kN/m³ (normal percentage reinforcement).
- Construction load of 1.5 kN/m² is included in the strength limit state checks according to EN 1991-1-1(2002).
- The bending strength of Flodek II is checked in accordance to AISI S-100 under the construction load.
- The span values of Flodek II required for propping are produced with condition of the deflection exceeds the criteria of Span 180:
- When applying props, builders are recommended to use soft materials as bearer to prevent surface damage/indentation on the bottom side of Flodek II.

7. Delivery & Transportation

The recommended delivery length is 8.2 - 32 ft., and even though cut-to-length is available upon request, subject to the handling method.



8. Section Properties

Section Properties Section	0.75 mm thickness	1.0 mm thickness	*1.2 mm thickness
Thickness TCT (mm)	0.75	1.0	1.2
Mass in (kg/m)	7.26	9.68	11.6
Sectional area (mm²)	925.78	1,233.00	1,478.30
Moment of inertia, I _{XX} x 10 ⁶ (mm ⁴)	0.136156	0.180991	0.216674
Moment of inertia, I _{YY} x 10 ⁶ (mm ⁴)	72.76178	96.88455	116.1358
Radius of gyration, r _X (mm)	12.11	12.11	12.11
Radius of gyration, r _Y (mm)	280.32	280.32	280.32
Centroid x (mm)	471.42	471.42	471.42
Centroid y (mm)	7.32	7.32	7.32
Section modulus, Z _X (mm ³)	6,483	8,642	10,369
Section modulus, Z _Y (mm ³)	22,5356	30,0100	35,9760
Q _X (mm ³)	4,789	6,336	7,555
Q _Y (mm ³)	154,346	205,465	246,243
Polar moment of inertia, J (mm ⁴)	173.6	411.0	709.6
Warping constant, I _W x 10 ⁸ (mm ⁶)	141.80	188.42	225.47

^{*}Rofo-FloDek II with 1.2 mm thickness only available upon request

Contact our Technical Engineers for enquiries

9. Application Reference

(1) New Rochelle, N.Y







Colo Steel System Sdn. Bhd. (673950-D) Lot 1904, Jalan Maigold, Taman Desa Senadin Shophouse,

98100 Miri, Sarawak, Malaysia.

Tel: 085-491 288 Fax: 085-661 387

(3) San Jose, CA



KRI Group of Companies



Kina Roof Industries (Sabah) Sdn. Bhd. (667221-X) Roofor You Marketing Sdn. Bhd. (1030310-X)

Lot 31, Jalan 2A, KKIP Timur, Industrial Zone 12, Kota Kinabalu Industrial Park, 88460 Kota Kinabalu, Sabah.

Postal Add: P.O.Box 96, Pejabat Pos Mini, 88450 Telipok, Sabah, Malaysia.

T: 088 498 333, 494 333, 016 8622323, 0115 927 2323, 018 369 5377, 016 879 3378 F: 088 499 933

Website:

Join us at Facebook:



©2008 All the rights reserved by Rofo (2008) Brand of series products. Rofo (2008) brand is trademark of Kina Roof Industries (Sabah) Sdn.Bhd. Rofo reserved the right to review the specification of any information, material or accessory contained herein at any time without any prior notice. It is provided without prejudice to the company's terms and conditions of sale. All measurements are nominal only and are depend on the grade and gauge of material used.

All the information and product specifications are current at the time of providing this brochure and subject to change without prior notice. Some of the informations are pick from Colourcoil ® PVF series brochure and some of the icons are colourcoil ® register Trademark.

