

Index Company History and Corporate Profile 3 fs-Beam - Technical Data 4 fs-Main Bearer - Technical Data 5 6 fs-Beam and fs-Main Bearer Spacing fs-Beam/fs-Bearer Connections 7 Guard Rail Post details 8 fs-Prop and fs-Prop Fork Head Details 9 Item codes and mass 10

International branches

Main branches	Telephone number	E-mail address
Johannesburg, South Africa	(+2711) 786-6151	info@formscaff.com
Gaborone, Botswana	(+267) 328-633	info@formscaff.com
Santiago, Chile	(+56) 2 738-5019	info@formscaff.cl
Port Louis, Mauritius	(+230) 211-0391	info@formscaff.com
Matola, Mozambique	(+258) 8 231 4217	info@formscaff.com

Local branches

Branches	Telephone number	Branches	Telephone number
Bloemfontein	(051) 432-5555	Port Elizabeth	(041) 453-2317
Cape Town	(021) 551-3507	Pretoria	(012) 653-8745
Chloorkop	(011) 393-4400	Richards Bay	(035) 797-4101
Durban	(031) 705-1112	Rustenburg	(014) 594-2726
East London	(043) 748-2558	Secunda	(017) 639-1458
Johannesburg		Somerset West	(021) 845-4090
(Kya Sands)	(011) 708-2227	Tongaat	(032) 944-3105
Margate	(039) 317-1708	Vereeniging	(016) 455-1611
Nelspruit	(013) 758-1036	Witbank	(013) 690-2833
Newcastle	(034) 375-7697	Wynberg	
Pietersburg	(015) 297-1550	(Factory & Head Office)	(011) 786-6151
Pietermaritzburg	(033) 394-5504		

Company History and Corporate Profile

Form-Scaff a division of Waco Africa Limited, is a South African company owned by Waco International and our Black Empowerment partner Kagiso Ventures. Form-Scaff was established in 1963.

The company manufactures, hires and sells formwork and scaffolding. It has branches throughout the African sub-continent, as well as operations in Mauritius and Chile. It is also closely associated with its sister companies in Australia, the U.K. and the U.S.A.

The company is committed to continued growth through the enhancement of its customer service, the quality of its products and by broadening its trading base to include on-going maintenance contracts in the energy and chemical industries. This policy serves to satisfy the company's growth objectives and by so doing, meet the long-term interests of its employees, suppliers and shareholders.

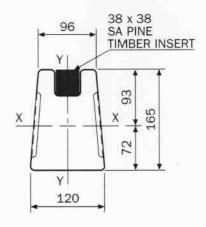
The company has an innovative approach to the demands of its customers and runs a very active Research & Development department. A large proportion of its products is exported.

The Drawing Office at Form-Scaff is staffed by highly qualified and well-experienced personnel and boasts a modern Computer Aided Design (CAD) facility. An integrated computer based system is used in product manufacturing, commencing with order entry and going on to raw material scheduling, production planning and machine loading. Product flow, materials handling and quality assurance receive high priority throughout the manufacturing cycle.

The company's manufacturing facility is situated in Wynberg. The factories are constantly being improved and its most recent addition is a powder-coating plant to replace the old dipping system of painting.

The company is at present one of the major manufacturers of formwork and scaffolding in the world. The quality of its products has ensured that the company has maintained its position among other global suppliers. To this end, the company constantly monitors its products through its Quality Control Department to ensure that the customers' needs are always met.

TECHNICAL DATA fs-BEAM



Properties

Ixx 2,3 x 10E6 mm4

Iyy 1 x 10E6 mm4

Area 613 mm²

ryy 39 mm

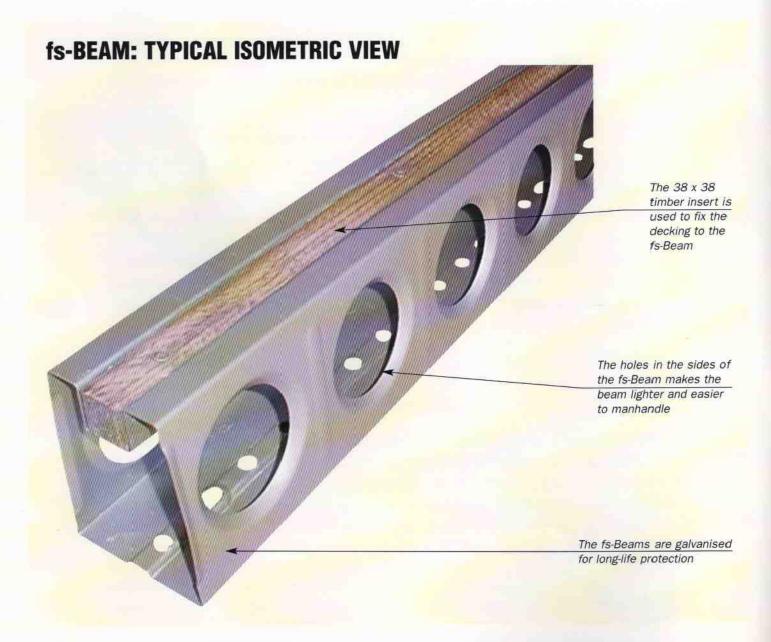
rxx 61 mm

Mass 6,12 kg/m

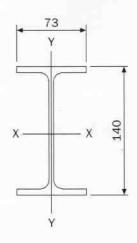
Maximum allowable bending moment = 4 kNm

Maximum allowable reaction at end of fs-Beam = 8 kN

Maximum allowable reaction = 12,3 kN



TECHNICAL DATA fs-MAIN BEARER



Properties

Mass 10.1 kg/m

Area 1 280 mm²

Ixx 4.07 E6 mm⁴

rxx 56.4 mm

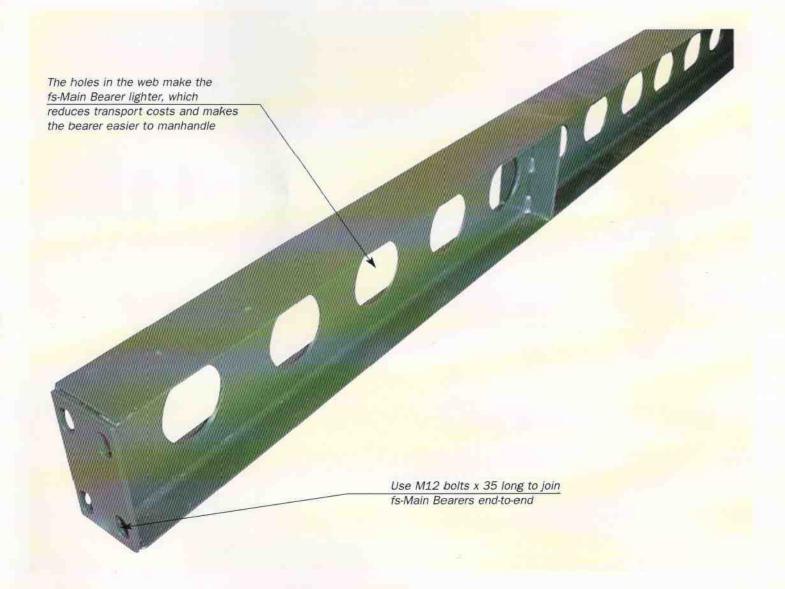
Iyy 0.338 E6 mm4

ryy 16.3 mm

Maximum allowable bending moment = 10 kNm

Maximum allowable reaction = 40 kN

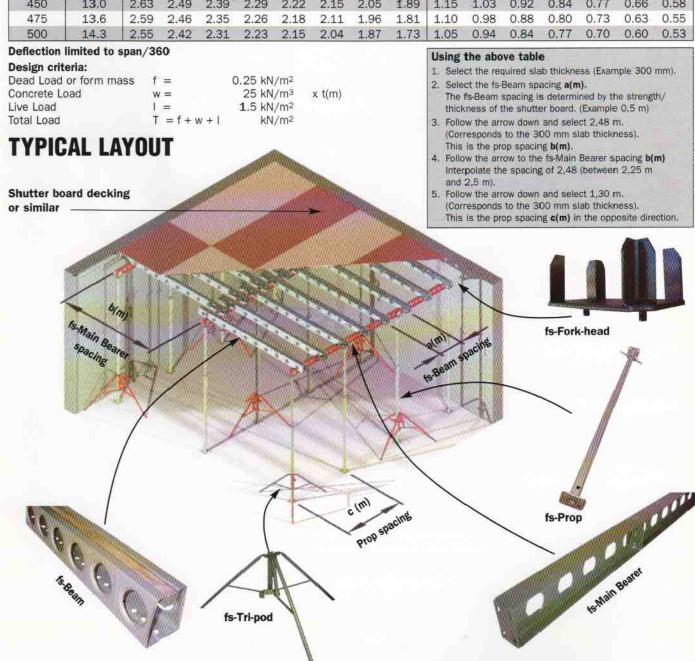
Maximum allowable reaction at end of bearer = 30 kN

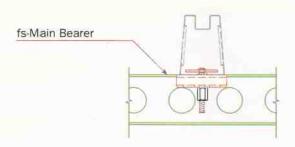


fs-BEAM AND fs-MAIN BEARER SPACING

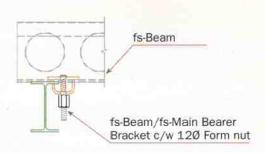
The table below is based on a maximum fs-Prop extension of 2 400 mm (unlaced props)

Slab Load Thickness (T)				f		spacing m)	\$					fs-Main	Bearer b(m)	spacin	g	
(t)mm	kN/m ²	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	2	2.25	2.5	2.75	3	3.5	4
		Pe	ermissib	le span	for fs-	Beam/p	rop spa	cing b(m)	Perm	. span	for Main	Beare	r/prop	spacing	c(m)
100	4.3	3.81	3.62	3.46	3.33	3.22	3.12	3.03	2.95	2.45	2.36	2.27	2.20	2.14	2.02	1.76
125	4.9	3.64	3.46	3.31	3.18	3.07	2.98	2.89	2.81	2,34	2.25	2.17	2.10	2.04	1.76	1.54
150	5.5	3.50	3.32	3.18	3.06	2.95	2.86	2.78	2.70	2.25	2.16	2.09	1.98	1.82	1.56	1.36
175	6.1	3.38	3.21	3.07	2.95	2.85	2.76	2.68	2,61	2.17	2.09	1.96	1.78	1.63	1.40	1.22
200	6.8	3,27	3.10	2.97	2.85	2.76	2.67	2.59	2.53	2.10	1.98	1.78	1.62	1.48	1.27	1.11
225	7.4	3.17	3.01	2.88	2.77	2.68	2.59	2.82	2.45	2.03	1.81	1.63	1.48	1.36	1.16	1.02
250	8.0	3.09	2.93	2.81	2.70	2.60	2.52	2.45	2.39	1.88	1.67	1.50	1.36	1.25	1.07	0.94
275	8.6	3.01	2.86	2.74	2.63	2.54	2.46	2.39	2.33	1.74	1.55	1,89	1.26	1.16	0.99	0.87
300	9.3	2.94	2.79	2.67	2.57	2.48	2.40	2.33	2.27	1.62	1.44	1.30	1.18	1.08	0.93	0.81
325	9.9	2.88	2.73	2.62	2.51	2.43	2.35	2.28	2.22	1.52	1.35	1.22	1.10	1.01	0.87	0.76
350	10.5	2.82	2.68	2.56	2.46	2.38	2.30	2.24	2.18	1.43	1.27	1.14	1.04	0.95	0.82	0.71
375	11.1	2.77	2.63	2.51	2.42	2.33	2.26	2.20	2.14	1.35	1.20	1.08	0.98	0.90	0.77	0.67
400	11.8	2.72	2.58	2.47	2.37	2.29	2.22	2.16	2.09	1.28	1.13	1.02	0.93	0.85	0.73	0.64
425	12.4	2.67	2.54	2.43	2.33	2.25	2.18	2.12	1.99	1.21	1.08	0.97	0.88	0.81	0.69	0.61
450	13.0	2.63	2.49	2.39	2.29	2.22	2.15	2.05	1.89	1.15	1.03	0.92	0.84	0.77	0.66	0.58
475	13.6	2.59	2.46	2.35	2.26	2.18	2.11	1.96	1.81	1.10	0.98	0.88	0.80	0.73	0.63	0.55
500	14.3	2.55	2.42	2.31	2.23	2.15	2.04	1.87	1.73	1.05	0.94	0.84	0.77	0.70	0.60	0.53



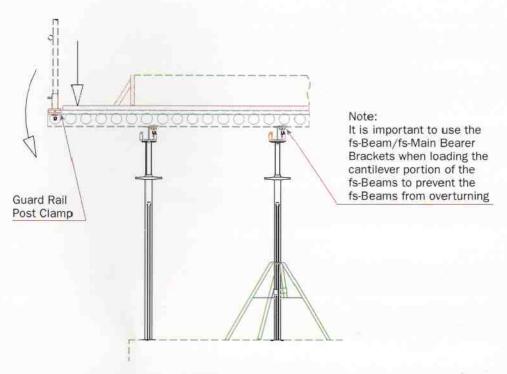




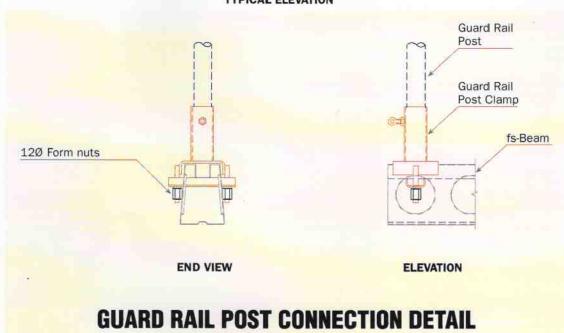


ELEVATION

fs-BEAM/fs-MAIN BEARER BRACKET CONNECTION DETAIL

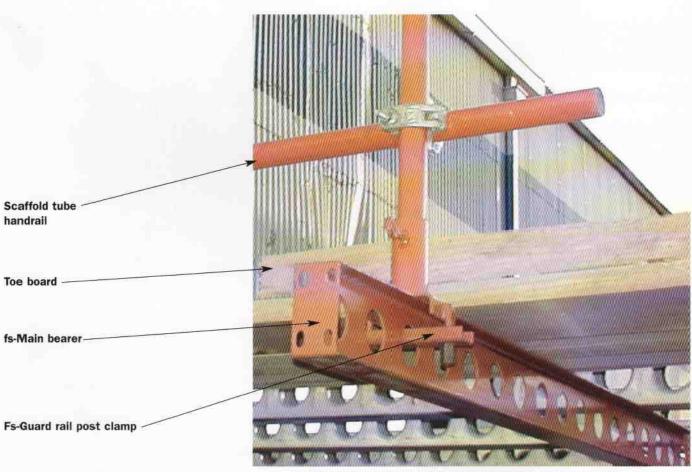


TYPICAL ELEVATION



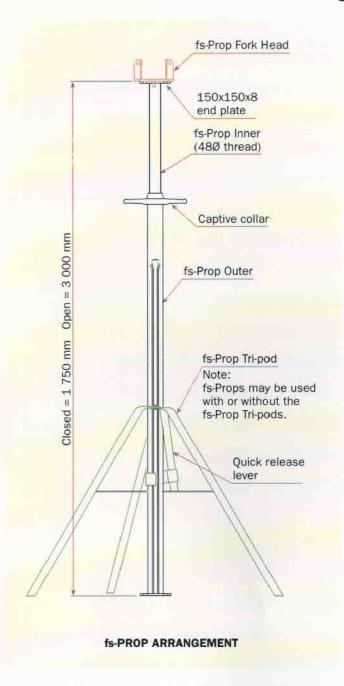


TYPICAL CANTILEVER PROTECTION DETAIL



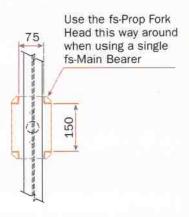
GUARD RAIL POST CONNECTION DETAIL

CORRECT USE OF fs-PROP FORK HEAD

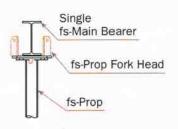




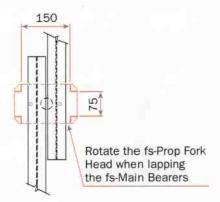
Propping height (mm)	Safe load (kN)
2 050	35
2 400	30
3 000	12



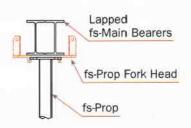
PLAN VIEW



END VIEW



PLAN VIEW



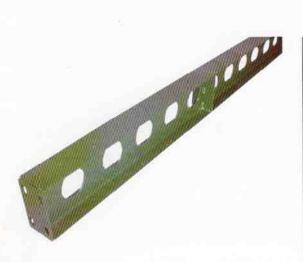
END VIEW

fs-BEAM

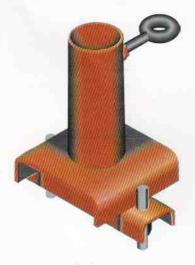


Code	Description	Length (mm)	Mass (kg)
1120001	fs-Beam c/w timber	900	6,3
1120002	fs-Beam c/w timber	1 500	10,4
1121003	fs-Beam c/w timber	1 800	12,5
1120004	fs-Beam c/w timber	2 100	14,6
1120005	fs-Beam c/w timber	2 400	16,7
1120015	fs-Beam c/w timber	2 700	18,8
1120006	fs-Beam c/w timber	3 000	20,9
1120013	fs-Beam c/w timber	3 300	23,0
1120014	fs-Beam c/w timber	3 600	25,0
1120008	fs-Beam c/w timber	3 900	27,1

fs-MAIN BEARER



Code	Description	Length (mm)	Mass (kg)
1121001	fs-Main Bearer	900	10,5
1121002	fs-Main Bearer	1 200	13,5
1121003	fs-Main Bearer	1 500	16,5
1121004	fs-Main Bearer	1 800	19,5
1121005	fs-Main Bearer	2 100	23,0
1121006	fs-Main Bearer	2 400	26,0
1121007	fs-Main Bearer	2 700	29,5
1121008	fs-Main Bearer	3 000	32,5
1121009	fs-Main Bearer	3 300	35,5
1121010	fs-Main Bearer	3 600	39,4
1121011	fs-Main Bearer	3 900	42,4
1121012	fs-Main Bearer	4 200	45,9
1121013	fs-Main Bearer	4 500	48,9



fs-GUARD RAIL POST CLAMP

Code	Description	Length (mm)	Mass (kg)
1121026	fs-Guard Rail Bracket		3,0
5405073	12 dia, form nut		0,15



fs-BEAM/fs-MAIN BEARER BRACKET

Code	Description	Length (mm)	Mass (kg)
1121001	Clamp		10,5
540573	12 dia. form nut		0,15





Code	Description	Length (mm)	Mass (kg)
1121024	fs-Prop Tri-pod		9,50



fs-PROPS

Code	Description	Length (mm)	Mass (kg)
1121020	fs-Prop Inner	1 475	7,61
1121021	fs-Prop Outer	1 662	8,67
1121022	fs-Prop (complete)	1 905	16,28



fs-PROP FORK HEAD

Code	Description	L x W (mm)	Mass (kg)
1121023	fs-Prop Fork Head	195x100	2,25

WHY USE THE fs-BEAM SYSTEM?

- Form-Scaff will provide initial on-site instruction (to help the site foremen) on the use and handling of the equipment.
- · The hire rates, when compared with other systems, are very competitive.
- · A production rate of up to 25 m2 per person, per shift, can be achieved.
- Shutter board decking produces a good quality "off shutter" finish.
- · The system has been used on several sites with very positive reports and feedback.
- · Form-Scaff has Technical Departments to design the most economical layouts and will assist on-site when necessary.
- Any of the Form-Scaff branches can be contacted for immediate assistance.
- · Abundant stock is available.

Prices lists available on request.

