



multi-form

Product Catalogue 2014

f form-scaff



Form-Scaff is South Africa's leading supplier of formwork, falsework and scaffolding to the construction and civil engineering industries. Form-Scaff not only manufactures, hires and sells world-class products, but also provides the design skills, technical advice and support that comes with having 50 years experience and more than 30 branches locally and internationally.

This indigenous expertise is complemented by the international depth and breadth of its holding company, Waco International, a leading global commercial and industrial service business focusing on the manufacturing, rental and sale of formwork, falsework and scaffolding equipment as well as the burgeoning re-locatable and modular buildings industry. Waco International operates in Africa, the UK, Australia, New Zealand and Chile.

Form-Scaff is a division of Waco Africa (Pty) Ltd, a joint venture company owned by Waco International and respected local black empowerment company, Kagiso.



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The customer must ensure that 'good practice' is adopted on site by competent persons and that the products shown in this catalogue are erected, used and stripped in accordance with the relevant Codes of Practice and the OHS Act and Regulations 85 of 1993. This catalogue does not contain any design detail but lists and depicts the items available under this product range. The responsibility for design is the responsibility of the customer.

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multi-form



Multi-Form Slabs

Form-Scaff's unique Multi-Form slab range provides contractors with a choice of main and secondary bearers that can be used in a number of ways.

Optimising on-site flexibility

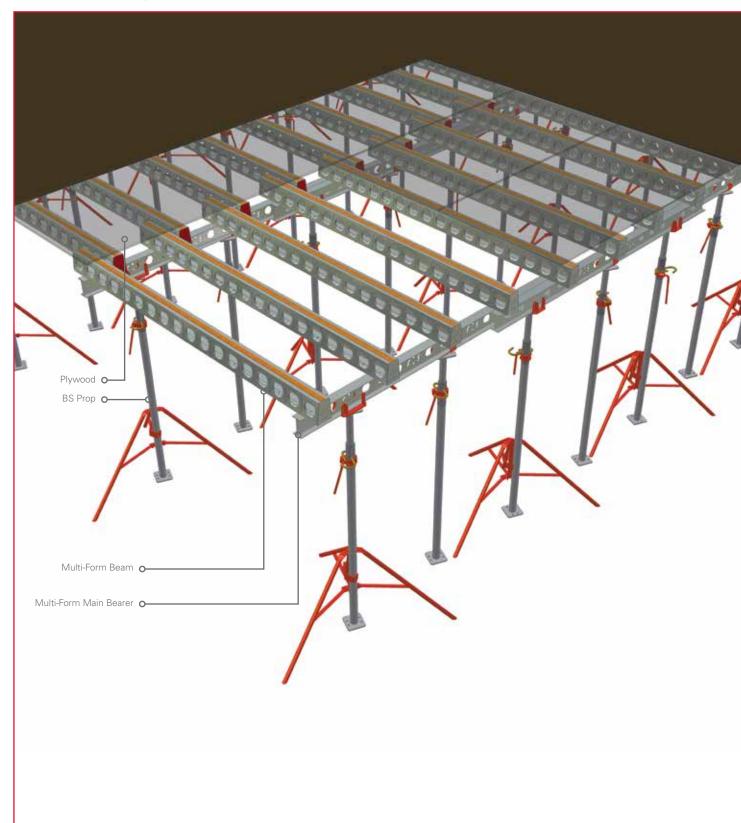
Form-Scaff's unique Kwik-Strip Drop Head allows the Multi-Form deck to be stripped after a couple of days, thus optimising equipment usage on site. Table-Forms are also available for larger, repetitive projects.

System Features

- Galvanised steel bearers and beams for longevity.
- Table-Forms available.
- Propping between 1.8m and 6.15m.
- High quality WISA-Form plywood.
- Superb concrete finishes.
- Compatible on Kwik-Stage.



General Assembly



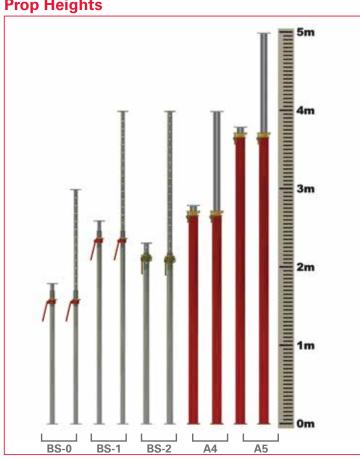
Support Work

BS Props

BS Props are used to support the Multi-Form System to a propping height of 4000mm. The galvanised BS-0 and BS-1 Props are the preferred props to be used with the Multi-Form System.

	CODE	DESCRIPTION	MASS(kg)
Ī	5105007	BS-O PROP INNER	8.6
	5105008	BS-O PROP OUTER	11.1
	1520002	BS-1 PROP INNER	11.8
	1520003	BS-1 PROP OUTER	16.4
	1520006	BS-2 PROP COMPLETE	27.3

Prop Heights



Alu-Up Props

Alu-Up Props are used to support the Multi-Form System to a propping height of 5000mm.

CODE	DESCRIPTION	MASS(kg)
5105200	ALU-UP PROPS 3.78 - 5.00	28.0



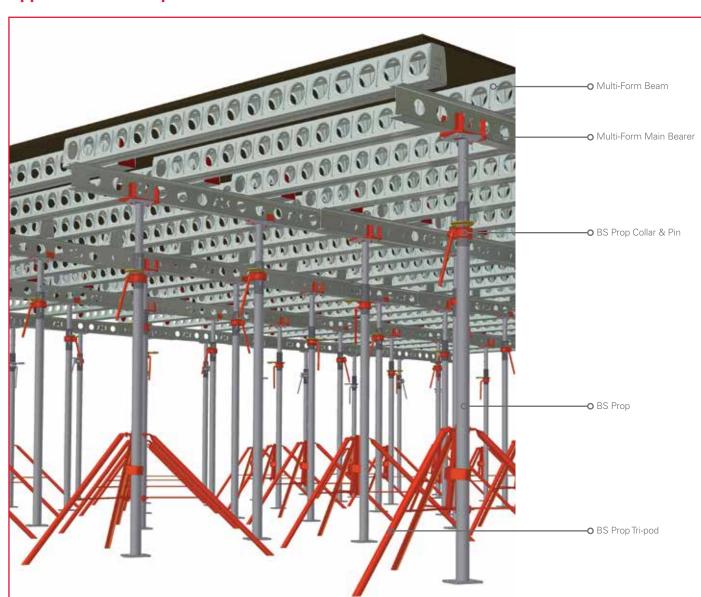
Alu-Up Prop Stubs and Extensions

Alu-Up Prop Extensions are used to extend the propping height from 5000mm to 6150mm. The Stubs are bolted to the bottom of all Props to act as a hammering piece.

CODE	DESCRIPTION	MASS(kg)
5105210	ALU-UP STUB 150mm	4.70
5105204	ALU-UP EXTENSION 500mm	7.47
5105205	ALU-UP EXTENSION 1000mm	11.66



Application - BS Props



BS Prop Tri-pods

BS Prop Tri-pods are used to keep the BS Props plumb during the erection and concrete pouring phase.

CODE	DESCRIPTION	MASS(kg)
1130017	BS PROPTRI-POD	10.95



Alu-Up Prop Tri-pods

Alu-Up Prop Tri-pods are used to keep the Alu-Up Props plumb during the erection phase.

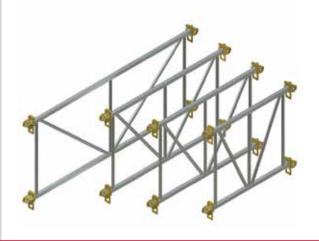
Г			
	CODE	DESCRIPTION	MASS(kg)
	5105201	ALU-UPTRI-PODS	12.40



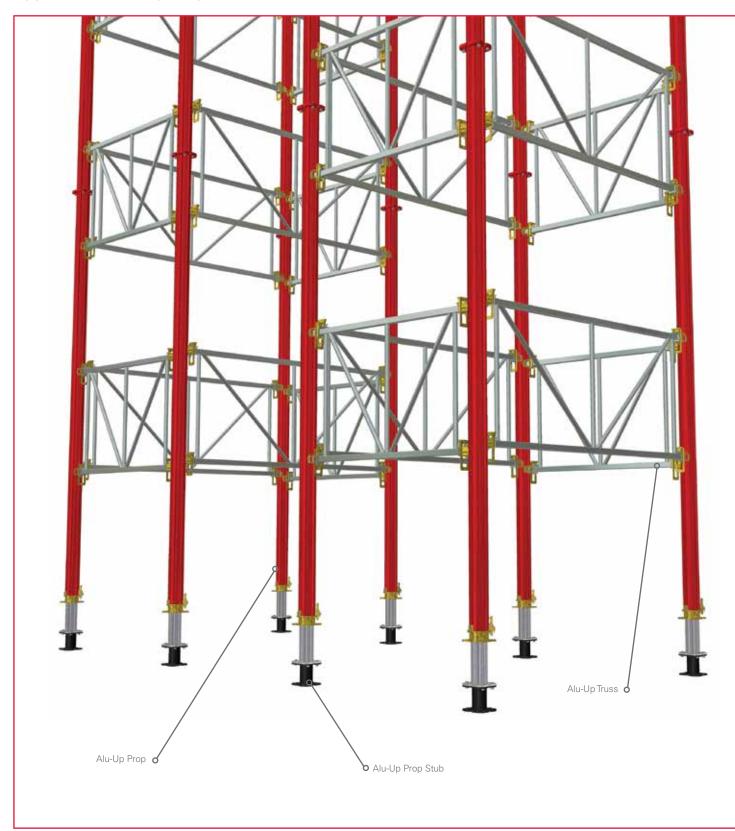
Alu-Up Trusses

Alu-up Trusses are used to create towers and brace the Alu-Up Props in the vertical position.

CODE	DESCRIPTION	MASS(kg)
5105206	2500 ALU-UP TRUSS	29.36
5105207	1800 ALU-UP TRUSS	23.44
5105208	1600 ALU-UP TRUSS	21.91
5105209	1294 ALU-UP TRUSS	19.60
5105212	900 ALU-UP TRUSS	14.48



Application - Alu-Up Props



Kwik-Stage Support

Kwik-Stage Base Jacks

Kwik-Stage Base Jacks are inserted into the ends of Kwik-Stage Standards to provide the required vertical height adjustment.

CODE	DESCRIPTION	MASS(kg)
0140320	457 R/O BASE JACK	3.78
0140324	610 R/O BASE JACK	4.28



Kwik-Stage Standards

Kwik-Stage Standards are used to form the vertical supports for bearers and formwork.

CODE	DESCRIPTION	MASS(kg)
1105000	500 K/S STANDARD	2.46
1105001	1000 K/S STANDARD	4.92
1105002	1500 K/S STANDARD	7.38
1105003	2000 K/S STANDARD	9.84
1105004	2500 K/S STANDARD	12.30
1105005	3000 K/S STANDARD	14.76
1110000	3500 K/S STANDARD	17.90
1110133	4000 K/S STANDARD	19.33



Kwik-Stage Ledgers

Kwik-Stage Ledgers are horizontal members used to keep the Kwik-Stage Standards in the vertical position.

CODE	DESCRIPTION	MASS(kg)
1105021	2500 K/S LEDGER	7.91
1105022	2000 K/S LEDGER	6.44
1105018	1800 K/S LEDGER	5.90
1105034	1600 K/S LEDGER	5.39
1105023	1500 K/S LEDGER	5.00
1105024	1294 K/S LEDGER	4.39
1105025	1219 K/S LEDGER	4.17
1105026	1200 K/S LEDGER	4.11
1105027	1000 K/S LEDGER	3.53
1105029	900 K/S LEDGER	3. <u>2</u> 3
1105032	600 K/S LEDGER	2.35





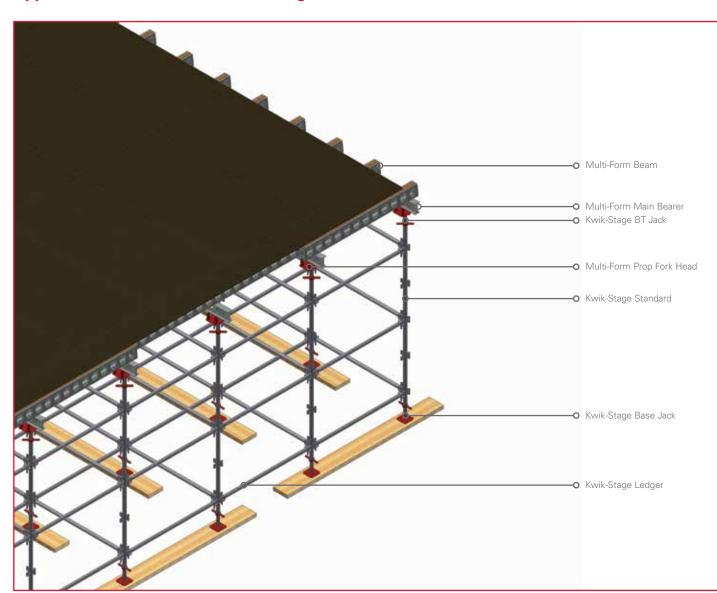
BT Jacks

BT Jacks are inserted into the ends of Kwik-Stage Standards to provide the required vertical height adjustment of the Kwik-Stage Standards and to secure the Multi-Form Prop Fork Heads and / or Drop Heads in position.

CODE	DESCRIPTION	MASS(kg)
140335	610 R/O BT BASE JACK	4.59



Application - Multi-Form on Kwik-Stage

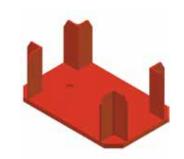


Prop Heads

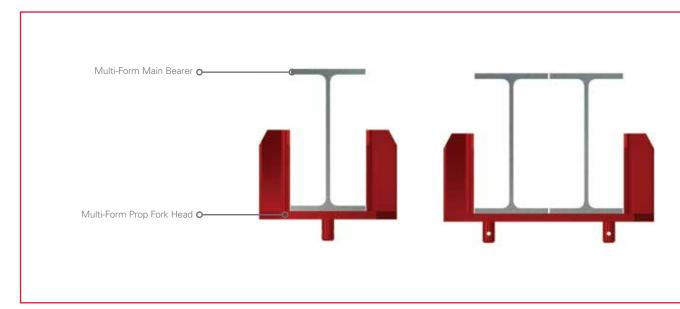
Prop Fork Heads

Multi-Form Prop Fork Heads are used to keep the Multi-Form Main Bearers centrally positioned over the BS Props.

CODE	DESCRIPTION	MASS(kg)
1130016	MULTI-FORM PROP FORK HEAD	2.30



Application - Fork Heads



Drop Heads

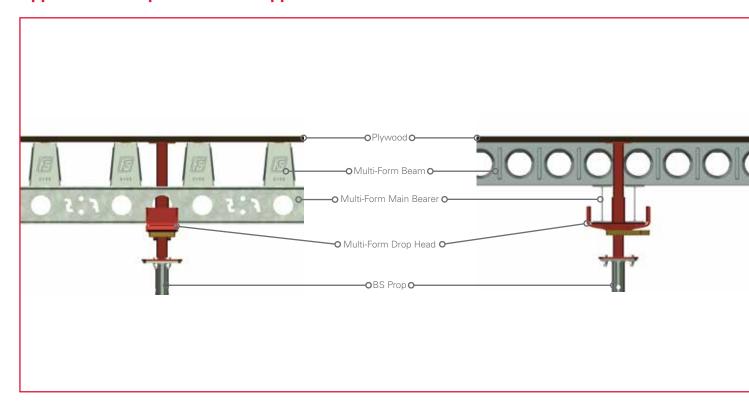
The Multi-Form Drop Heads are used to Kwik-Strip the Multi-Form system. The Props remain in position while the bearers and plywood are recovered for re-use. The Multi-Form Drop Heads support the Multi-Form Main Bearers, Multi-Form Beams and plywood decking.

CODE	DESCRIPTION	MASS(kg)
1605026	MULTI-FORM DROP HEAD	7.20

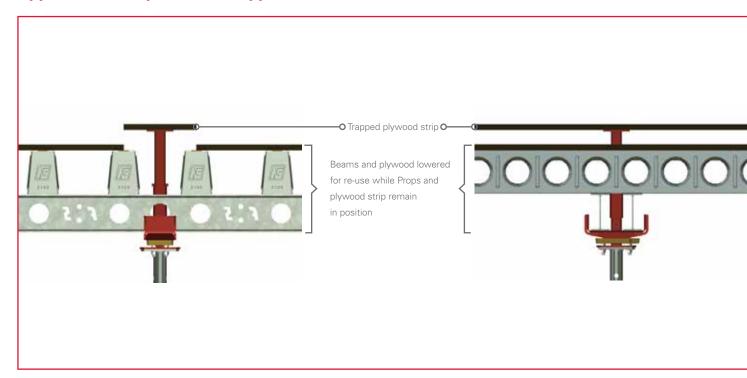




Application - Drop Heads - Unstripped Position



Application - Drop Heads - Stripped Position



Bearers & Plywood

Main Bearers

Main Bearers are used to support the secondary beams.

CODE	DESCRIPTION	MASS(kg)
1121001	MULTI-FORM MAIN BEARER 900	8.80
1121002	MULTI-FORM MAIN BEARER 1200	11.70
1121003	MULTI-FORM MAIN BEARER 1500	14.60
1121004	MULTI-FORM MAIN BEARER 1800	17.50
1121005	MULTI-FORM MAIN BEARER 2100	20.50
1121006	MULTI-FORM MAIN BEARER 2400	23.40
1121007	MULTI-FORM MAIN BEARER 2700	26.30
1121008	MULTI-FORM MAIN BEARER 3000	29.20
1121009	MULTI-FORM MAIN BEARER 3300	32.20
1121010	MULTI-FORM MAIN BEARER 3600	35.10
1121011	MULTI-FORM MAIN BEARER 3900	38.00
1121012	MULTI-FORM MAIN BEARER 4200	40.90
1121013	MULTI-FORM MAIN BEARER 4500	43.90



Multi-Form Beams

Multi-Form Beams are used as secondary beams, which support the plywood facing, to form the soffit of a concrete slab.

CODE	DESCRIPTION	MASS(kg)
1120001	MULTI-FORM BEAM 900	6.30
1120016	MULTI-FORM BEAM 1200	8.40
1120002	MULTI-FORM BEAM 1500	10.40
1120003	MULTI-FORM BEAM 1800	12.50
1120004	MULTI-FORM BEAM 2100	14.60
1120005	MULTI-FORM BEAM 2400	16.70
1120015	MULTI-FORM BEAM 2700	18.80
1120006	MULTI-FORM BEAM 3000	20.90
1120013	MULTI-FORM BEAM 3300	23.00
1120014	MULTI-FORM BEAM 3600	25.00
1120008	MULTI-FORM BEAM 3900	27.10
1605049	MULTI-FORM BEAM LIFTING FORK	2.40



WISA-Form Plywood

21mm Thick WISA-Form Combi plywood is used as a facing on the Multi-Form System. The Phenolic coating on the plywood provides a very good off-shutter concrete finish.

CODE	DESCRIPTION	MASS(kg)
5120017	2400 X 600 X 21mm WISA-FORM PLYWOOD	20.50
5120011	2700 X 1220 X 21mm WISA-FORM PLYWOOD	46.90





Multi-Form Beam Guardrails

Multi-Form Beam Guardrails are secured onto the Multi-Form Main Bearer / Multi-Form Beam to provide a stanchion for safety handrails.

CODE	DESCRIPTION	MASS(kg)
1605040	MULT-FORM BEAM GUARDRAIL	5.20



Slab Clamps

Slab Clamps are used as stanchions, to secure safety handrails in position around the edges of a concrete slab. They may be clamped onto an existing concrete slab of up to 900mm thick, or onto any of the Multi-Form Bearers.

CODE	DESCRIPTION	MASS(kg)
1130235	SLAB CLAMP 600	14.80
34003	SLAB CLAMP 900	11.20



Application - Slab Clamps



Application - Guardrails

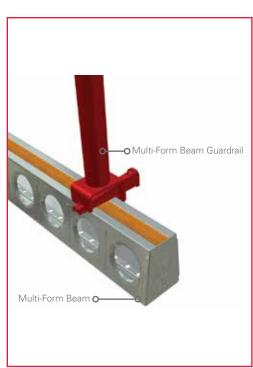


Table Heads & Connections

Multi-Form Table Heads are fixed to the ends of the Props with the aid of a wedge. This is to keep the Multi-Form Main Bearers in position when the system is used for Tables.

CODE	DESCRIPTION	MASS(kg)
1605028 1605006 1605007 1605008 1605036	MULTFORM TABLE HEAD MULTFORM FLANGE CLIP MULTFORM WALER CHANNEL MULTFORM CUP SQUARE BOLT MULTFORM LINDAPTOR MULTFORM M14 X 65 BOLT	6.00 0.10 0.40 0.10 0.10



Table Lifting Brackets

Multi-Form Table Lifting Brackets are used to move assembled Multi-Form Tables in the absence of a Multi-Form Table C-Hook and when loading or unloading vehicles.

CODE	DESCRIPTION	MASS(kg)
1605041	MULTI-FORM TABLE LIFTING BRACKET	11.40



Table C-Hook

The Multi-Form Table C-Hooks are used to lift or move assembled Multi-Form Tables.

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	CODE	DESCRIPTION	MASS(kg)
	1605029 1605051	MULTI-FORM TABLE C-HOOK MULTI-FORM TABLE C-HOOK SAFETY SLING	500.00 10.00



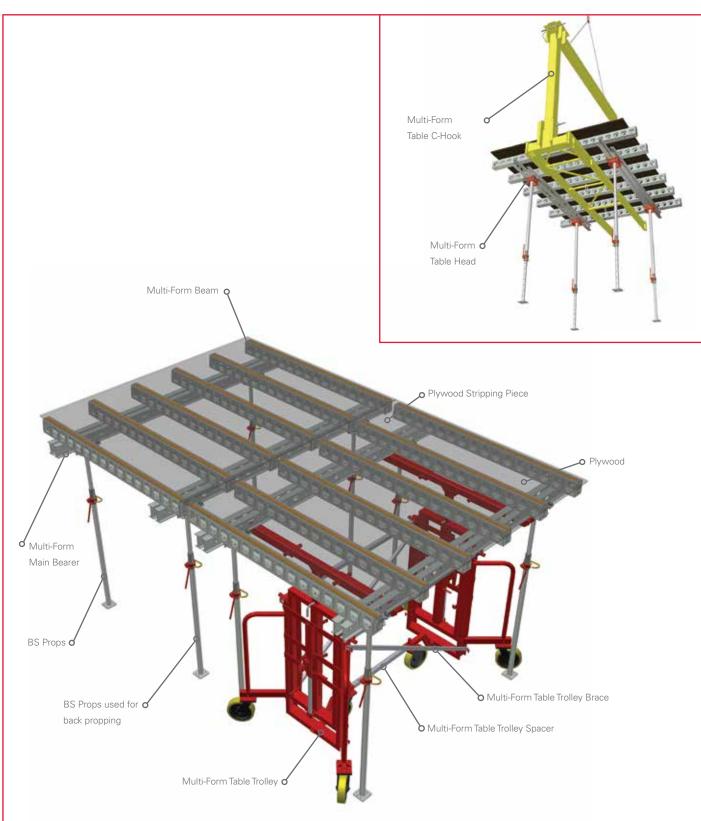
Table Trolley

A pair of Multi-Form Table Trolleys joined together by the Multi-Form Table Trolley Spacer and Brace are used to move assembled Multi-Form Tables around on existing concrete slabs.

CODE	DESCRIPTION	MASS(kg)
1605050	MULTI-FORM TABLE TROLLEY	100.00
1605095	MULTI-FORM TABLE TROLLEY SPACER	6.51
1605096	MULTI-FORM TABLE TROLLEY BRACE	8.38



Application - Tables





multi-form



Multi-Form Walls

Form-Scaff's unique Multi-Form Beam also doubles up as a soldier in the Multi-Form wall system. With twin channel Walers behind for strength and high quality plywood facing on the front, Multi-Form guarantees a superb off-shutter finish.

Available in standard panels or loose components

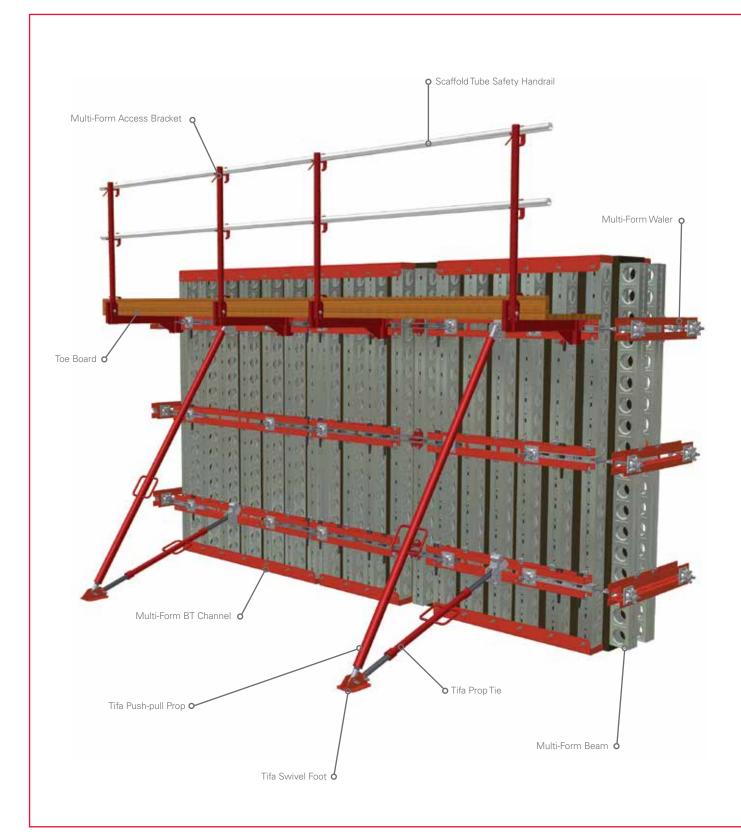
The standard size panels are made up at our premises and delivered to site. Off-shutter columns, walls and lift-shafts are possible with this lightweight walling system.

System Features

- Unique Multi-Form Beam as the soldier.
- The Walers and Splices self-align the panels.
- Splices and Wedges ensure water-tight connections between panels.
- Straight and circular applications are available.
- Climbing and lifting applications are available.
- Offers a superb off-shutter finish.



General Assembly



Soldiers & Walers

Multi-Form Beams

Multi-Form Beams are used as the soldiers, which support the plywood facing.

CODE	DESCRIPTION	MASS(kg)
1120001 1120016 1120002 1120003 1120004 1120005 1120015	MULTI-FORM BEAM 900 MULTI-FORM BEAM 1200 MULTI-FORM BEAM 1500 MULTI-FORM BEAM 1800 MULTI-FORM BEAM 2100 MULTI-FORM BEAM 2400 MULTI-FORM BEAM 2700 MULTI-FORM BEAM 3000	6.30 8.40 10.40 12.50 14.60 16.70 18.80 20.90
1120013 1120014 1120008	MULTI-FORM BEAM 3300 MULTI-FORM BEAM 3600 MULTI-FORM BEAM 3900	23.00 25.00 27.10



Walers

Multi-Form Walers are used to straighten or stiffen the Multi-Form Beams in an assembled Multi-Form Panel.

CODE	DESCRIPTION	MASS(kg)
1605025	MULTI-FORM WALER 600	11.90
1605071	MULTI-FORM WALER 900	18.40
1605072	MULTI-FORM WALER 1200	24.20
1605010	MULTI-FORM WALER 1500	30.30
1605073	MULTI-FORM WALER 1800	36.50
1605074	MULTI-FORM WALER 2400	48.70



Internal Corners

Multi-Form Internal Corners 600 x 600 are walers, attached to the Multi-Form Beam soldiers, to form a 90° internal corner panel.

CODE	DESCRIPTION	MASS(kg)
1605081	MULTI-FORM INTERNAL CORNER 600 X 600	29.50



Waler Splices

Multi-Form Waler Splices are used to join two Multi-Form Panels together side by side. They are also used to straighten or align gang-formed Multi-Form Panels.

CODE	DESCRIPTION	MASS(kg)
1605003	MULTI-FORM WALER SPLICE 990	10.40
1605012	MULTI-FORM WALER SPLICE 1470	15.40



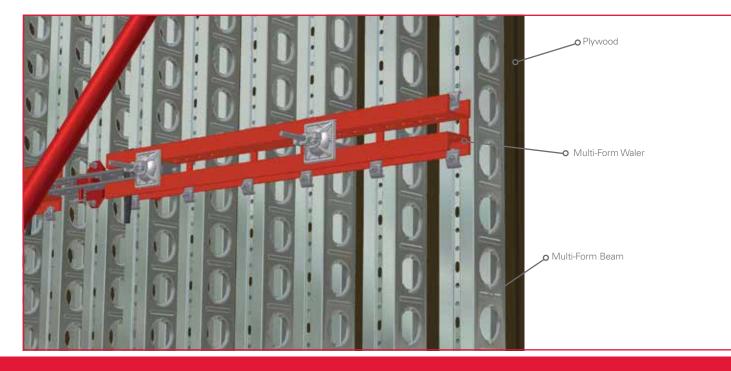
BT Channels

Multi-Form BT Channels are used to frame the ends of the Multi-Form Beams on an assembled Multi-Form Panel. BT Corner Channels are used to frame the ends of the Multi-Form Beams on an assembled 90° Multi-Form Internal Corner Panel.

CODE	DESCRIPTION	MASS(kg)
1605021	MULTI-FORM BT CHANNEL 600	7.80
1605069	MULTI-FORM BT CHANNEL 900	11.80
1605068	MULTI-FORM BT CHANNEL 1200	15.70
1605024	MULTI-FORM BT CHANNEL 1500	19.20
1605069	MULTI-FORM BT CHANNEL 1800	23.10
1605070	MULTI-FORM BT CHANNEL 2400	30.70
1605082	MULTI-FORM BT CORNER CHANNEL	17.00



Application - Multi-Form Wall System



Stop-end Splices

Multi-Form Waler Stop-end Splices are used to secure a stop-end, for a concrete wall, in position.

CODE	DESCRIPTION	MASS(kg)
1605013	MULTI-FORM WALER STOP-END SPLICE	5.90



Hinged Splices

Multi-Form Waler Hinged Splices are used (on the internal and external faces of walls) where the splayed angle of the concrete wall is between 70° and 180°.

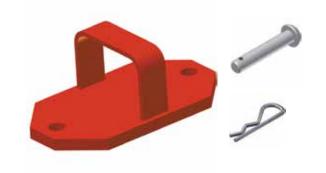
Ī	CODE	DESCRIPTION	MASS(kg)
	1605042	MULTI-FORM WALER HINGED SPLICE	15.40



Waler Spacer Brackets

Multi-Form Waler Spacer Brackets are used to seat the Multi-Form Beams up against the various types of Multi-Form Waler Splices.

CODE	DESCRIPTION	MASS(kg)
1605015	MULTI-FORM WALER SPACER BRACKET	1.10
1605083	TIFA CONNECTING PIN 19 X 90	0.10
5110059	R-CLIP	0.01



Waler Channels

Multi-Form Waler Channels are used as a bridge to keep the Cup Square Bolts and Flange Clips in position.

CODE	DESCRIPTION	MASS(kg)
1605007 1605008 1605036 1605200 1605201	MULTI-FORM WALER CHANNEL MULTI-FORM WALER CUP SQUARE BOLT MULTI-FORM LINDAPTOR MULTI-FORM KWIK-FIX BOLT MULTI-FORM KWIK-FIX NUT	0.40 0.10 0.10 0.02 0.02





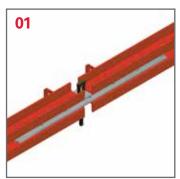
Wedges

Multi-Form Waler Wedges are used to secure the various types of Multi-Form Waler Splices between the webs of the Multi-Form Walers / Multi-Form Internal Corner 600×600 .

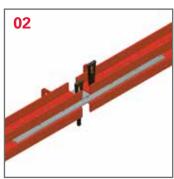
CODE	DESCRIPTION	MASS(kg)
1605004	MULTI-FORM WALER WEDGE	0.80



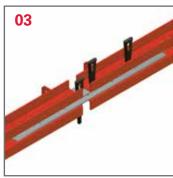
Application - Assembly sequence for Multi-Form Waler Wedges to ensure tight connections between the Multi-Form Panels



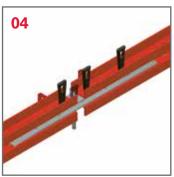
Place Multi-Form Waler in position and insert first wedge loosely between Multi-Form Walers.



Using a hammer, knock a second wedge in as shown.



Knock in a third wedge as shown.



Remove the first wedge and place into position as shown.



Knock in the third wedge which draws the Multi-Form panels closed.



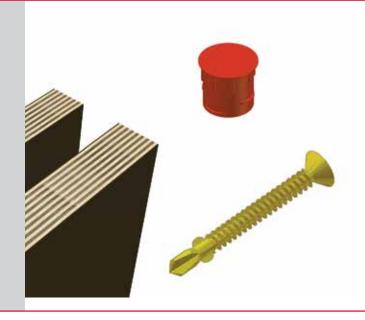
Knock in the fourth wedge to complete the connection.

Plywood & Ties

WISA-Form Plywood, Plastic Plugs & Countersunk Screws

21mm Thick WISA-Form Combi Plywood is used as a facing on the Multi-Form Panels. The Phenolic coating on the plywood provides a very good off-shutter concrete finish. Plastic Plugs are used to seal the tie holes that are not in use. Countersunk Screws are used to fix the plywood to the Multi-Form Beams.

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	CODE	DESCRIPTION	MASS(kg)
	5120017	2400 X 600 X 21mm WISA-FORM PLYWOOD	20.50
	5120011	2700 X 1220 X 21mm WISA-FORM PLYWOOD	46.90
	5110300	PLASTIC PLUGS (21/15)	0.01
	1605039	MULTI-FORM COUNTERSUNK SCREW X 55	0.01
	1605027	MULTI-FORM TURBO SCREW 10 X 50	0.01



Waler Tie Bracket 45°

Multi-Form Waler Tie Brackets 45° are used to locate the Dywidag Ties at the 90° external corners of assembled Multi-Form Panels.

CODE	DESCRIPTION	MASS(kg)
1605014	MULTI-FORM WALER TIE BRACKET 45°	3.80



Tie System

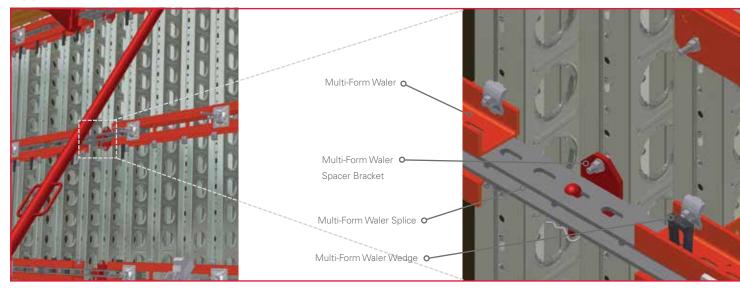
15,5mm Diameter Dywidag Ties with Dywidag Combi Nuts should be used with the Multi-Form System.

CODE	DESCRIPTION	MASS(kg)
5405077	DYWIDAG BAR 15mm 500	0.70
5405078	DYWIDAG BAR 15mm 1000	1.50
5405079	DYWIDAG BAR 15mm 1500	2.20
5405085	DYWIDAG BAR 15mm 2000	2.90
5405086	DYWIDAG BAR 15mm 2500	3.60
5405087	DYWIDAG BAR 15mm 3000	4.30
5405088	DYWIDAG BAR 15mm 3500	5.10
5405089	DYWIDAG BAR 15mm 4000	5.80
5405092	DYWIDAG BAR 15mm 4500	6.50
5405093	DYWIDAG BAR 15mm 5000	7.20
5405094	DYWIDAG BAR 15mm 5500	8.00
5405095	DYWIDAG BAR 15mm 6000	8.70
5110150	DYWIDAG COMBI WING NUT	1.20

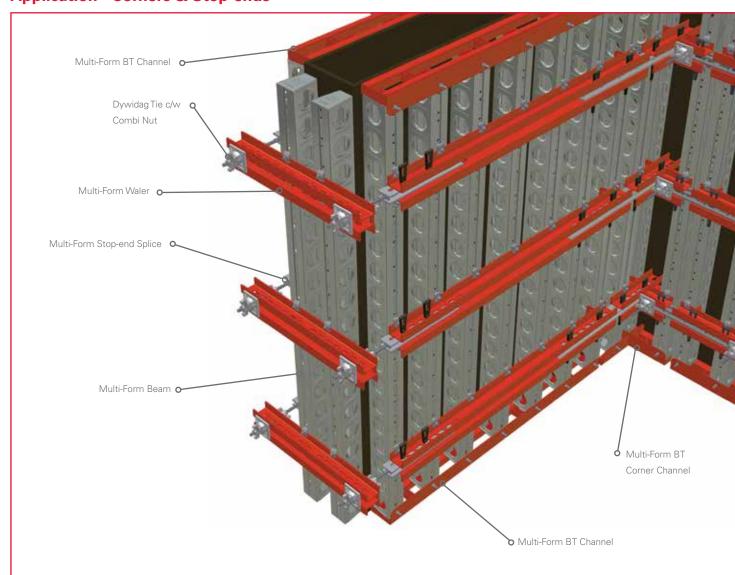




Application - Infill Sections



Application - Corners & Stop-ends



Propping System

Push-pull Props

Tifa Push-pull Props and Tifa Prop Ties are used to plumb the Multi-Form Panels.

CODE	DESCRIPTION	MASS(kg)
5110100	TIFA PROPTIE	8.40
5110007 5110024	TIFA PUSH-PULL PROP 2500 TIFA PUSH-PULL PROP 3100	14.00 16.60
5110201	TIFA PUSH-PULL PROP 4200	20.00



Waler Attachment Brackets

Multi-Form Waler Attachment Brackets are used to fix the Tifa Push-pull Props to the Multi-Form Walers.

CODE	DESCRIPTION	MASS(kg)
1605016	MULTI-FORM WALER ATTACHMENT BRACKET	3.60



Swivel Foot

The Tifa Swivel Foot is used at the base of the Push-pull Props and Prop Ties to connect the ends of the Props together.

CODE	DESCRIPTION	MASS(kg)
5110008	TIFA SWIVEL FOOT 200 X 150	3.40



Connecting Pin & R-Clip

Tifa Connecting Pins 16 x 90 c/w R-Clips are used to connect a Prop to the Multi-Form Waler Attachment Bracket and to the Swivel Foot.

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	CODE	DESCRIPTION	MASS(kg)
	5110090 5110059	TIFA CONNECTING PIN 16 X 90 R-CLIP	0.10 0.01





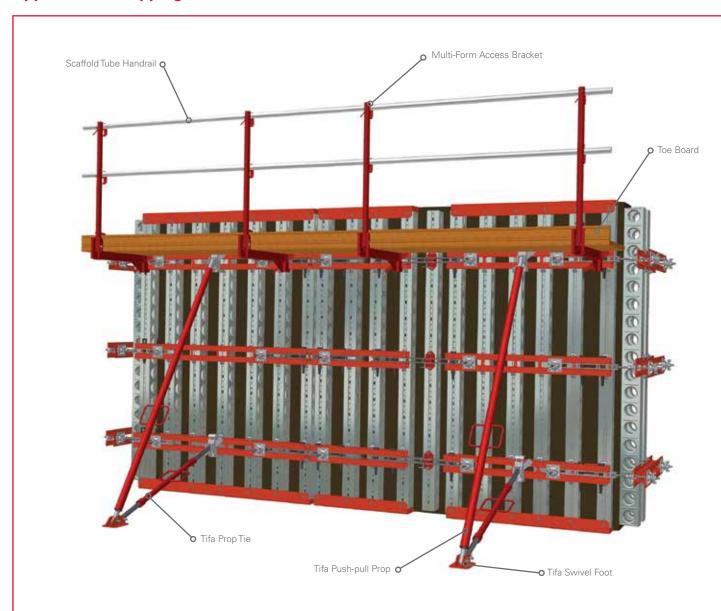
Access Brackets

Multi-Form Access Brackets are used to provide access for site personnel.

CODE	DESCRIPTION	MASS(kg)
1605017	MULTI-FORM ACCESS BRACKET	10.20



Application - Propping & Access



Climbing

Anchor Screws

Anchor Screws are used to keep the Form Wall Brackets in position.

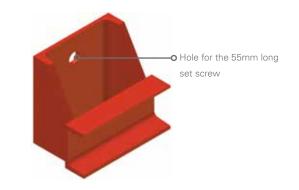
CODE	DESCRIPTION	MASS(kg)
2965902	ANCHOR SCREW M20 X 197	1.00
2965903	ANCHOR SCREW M24 X 280	1.10



Wall Brackets

Form Wall Brackets are used to support the Form Support Brackets.

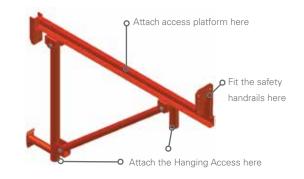
CODE	DESCRIPTION	MASS(kg)
5110099	FORM WALL BRACKET	3.90



Support Brackets

When climbing the Multi-Form System, Form Support Brackets may be used to support the system at various levels of the climb.

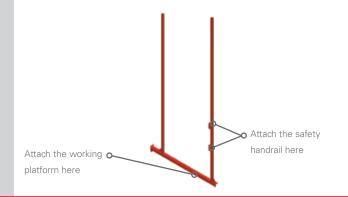
CODE	DESCRIPTION	MASS(kg)
5405023	FORM SUPPORT BRACKET	25.70



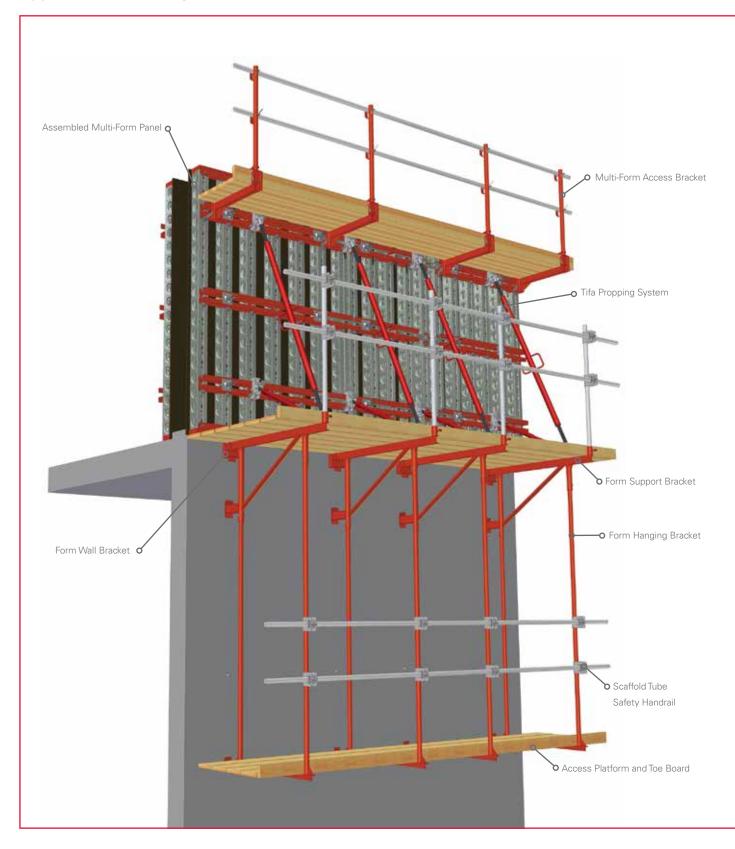
Hanging Brackets

Form Hanging Brackets are used to provide access for site personnel and to recover the Anchor Screws from previous concrete pours.

CODE	DESCRIPTION	MASS(kg)
5405024	FORM HANGING BRACKET	23.90



Application - Climbing

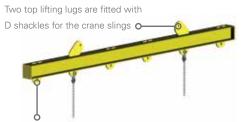




Lifting Beams

Tifa Lifting Beams must be used in conjunction with the Multi-Form Lifting Hooks to lift the Multi-Form System.

CODE	DESCRIPTION	MASS(kg)
5110093	TIFA LIFTING BEAM 3300 C/W 2 CHAINS	175.00

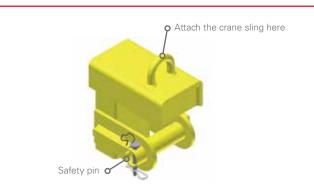


Six lug positions, at a spacing of 600mm, to locate the two vertical (1250mm long) chain slings that are provided with each Lifting Beam

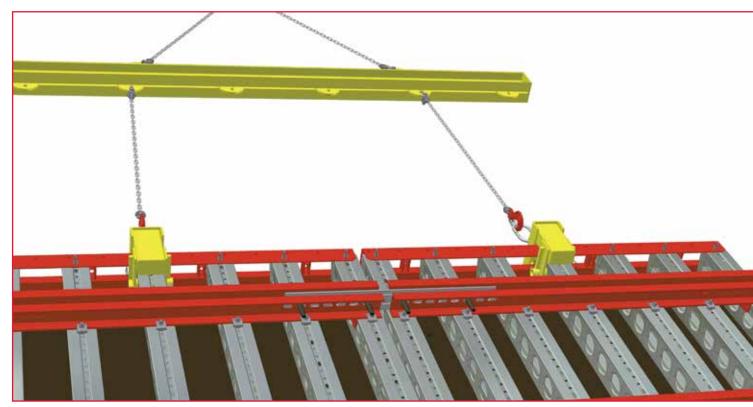
Lifting Hooks

Multi-Form Lifting Hooks are used to lift the Multi-Form System.

CODE	DESCRIPTION	MASS(kg)
1605034	MULTI-FORM LIFTING HOOK	12.50



Application - Lifting





HEAD OFFICE

P.O. Box 669, Isando, 1600 181 Barbara Road, Elandsfontein Tel 011 842-4000 Fax 011 842-4280

INLAND BRANCHES

BLOEMFONTEIN

P.O. Box 6610, Bloemfontein, 9300 26 Tibbie Visser Street, Estoire S/H District Tel 051 432-5555 Fax 051 432-4477

BURGERSFORT

P.O. Box 2918, Burgersfort, 1150 Plot 2484, Ext 23 Dirk Winterbach Street, Burgersfort Tel 013 004-0200

JOHANNESBURG EAST

P.O. Box 26994, Boksburg, 1462 Tunney Road, Gate 3, Elandsfontein Tel 011 842-4215 Fax 011 842-4111

JOHANNESBURG - KYA SAND

P.O. Box 2884, Honeydew, 2040 40 Homestead Avenue, Kya Sand Tel 011 708-2227 Fax 011 708-1159

KATHU

P.O. Box 1235, Kathu, 8446 33 Kalk Street, Industrial Area, Kathu Tel 053 723-2194, Fax 053 723-1078

KUSILE

P.O. Box 4466, Pretoria, 0001 Kusile Power Station, Balmoral Road, Mpumalanga Tel 082 578-4638

LEPHALALE

P.O. Box 7495, Onverwaght, 0557 Rietspruit Plot 23, Portion 46 Witkop Road, Lephalale Tel 014 763-7982, Fax 014 763-7982

NELSPRUIT

P.O. Box 4485, Nelspruit, 1200 Erf 379, Rocky Drift Tel 013 758-1036, Fax 013 758-1063

POLOKWANE

P.O. Box 3979, Polokwane, 0700 62 Goud Street, Laboria, Polokwane Tel 015 293-0450, Fax 015 293-0460

PRETORIA

PO. Box 4466, Pretoria, 0001 Park Lane North, Highway Business Park, Rooihuiskraal Tel 012 621-9900, Fax 012 621-9931

RUSTENBURG

P.O. Box 6996, Rustenburg, 0300 3 Ferro Street, Rustenburg Tel 014 538-2540, Fax 014 538-0087

SECUNDA

P.O. Box 3781, Secunda, 2302 1 Winkelhaak Road, McGill Ext, Evander Tel 017 632-4230, Fax 017 632-4234

VEREENIGING

P.O. Box 1010, Vereeniging, 1930 Cnr Telford & Van Riebeeck Street, Duncanville Tel 016 455-1611, Fax 016 455-1566

WITBANK

P.O. Box 3869, Witbank, 1035 2 Colliery Street, Witbank Tel 013 690-2833, Fax 013 656-3713

COASTAL BRANCHES

BALLITO

P.O. Box 715, Umhlali, 4390 Labora Terra Industrial Park, Shakas Rock Road, Ballito Tel 032 947-9430 Fax 032 947-0583

CAPE TOWN

P.O. Box 37068, Chempet, 7442 6 Drill Avenue, Montague Gardens Tel 021 528-6500 Fax 021 551-1743

DURBAN SOUTH

P.O. Box 485, Umbogintwini, 4120 16 Stroude Place, Isipingo Tel 031 902-2677 Fax 031 902-2771

EAST LONDON

P.O. Box 2734, Beacon Bay, 5205 5 Ray Craib Crescent, Beacon Bay Tel 043 748-2558 Fax 043 748-3691

GEORGE

P.O. Box 218, Hartenbos, 6520 Cnr Albert Street & Bridge Road, George Tel 044 695-0294, Fax 044 695-1040

KZN REGIONAL OFFICE

P.O. Box 33, New Germany, 3620 178-180 Old Main Road, Pinetown Tel 031 713-9700 Fax 031 713-9715

MARGATE

P.O. Box 1171, Margate, 4275 Industrial Road, Margate Tel 039 317-1708, Fax 039 317-4073

NEWCASTLE

P.O. Box 906, Newcastle, 2940 22 Schonland Street, Industrial Sites Tel 034 375-7697, Fax 034 375-6935

PIETERMARITZBURG

P.O. Box 21946, Mayors Walk, 3208 Market Road Ext, Mkondeni Tel 033 346-1767, Fax 033 346-1753

PORT ELIZABETH

P.O. Box 2112, North End, 6056 4 Kendle Street, Neave Industrial Area Tel 041 453-2317. Fax 041 453-2524

RICHARDS BAY

P.O. Box 1333, Richards Bay, 3900 111 Aluminia Alley, Alton Industrial North Tel 035 751-1140, Fax 035 751-1094

STRAND

P.O. Box 1654, Somerset West, 7129 Chilwan Crescent Helderberg, Industrial Park Tel 021 845-4090, Fax 021 845-4091

INTERNATIONAL BRANCHES

INTERNATIONAL SALES

P.O. Box 669, Isando, 1600 181 Barbara Road, Elandsfontein Tel 011 842-4000, Fax 011 388 4550

CHILE - COPIAPO

Rio Copiapo, 1949 Plaza Comercio 2, Modulo 8 – Panamericana Norte, Copiapo, Chile Tel +565 254 1561

CHILE - SANTIAGO

Cerro Portezuelo, 9801 Parque Industrial Portezuelo, Quilicura, Santiago de Chile Tel +562 738-5019, Fax +562 738-6521

GHANA - ACCRA

Plot L16, Accra Tema Motorway, Off Spintex Road, Motorway Industrial Area, Accra, Ghana Cell +27 82 829 6627

MAURITIUS - PORT LOUIS

P.O. Box 748, Bell Village, Port Louis Western Plaine Lauzun Industrial Estate Tel +230 211-039, Fax +230 211-0392

MOZAMBIQUE – PEMBA

Rua Estrada Nacional 106 Muxara, Pemba Tel: +258 84 714 3142

NAMIBIA - SWAKOPMUND

P.O. Box 2484, Swakopmund, 36 Hidipo Hamutenya Street, Swakopmund Tel +26464 46-2020, Fax +26464 46-2050

NAMIBIA - WINDHOEK

P.O. Box 20286, Windhoek, 9000 5 Nickel Street, Prosperitas Tel +26461 23-3693, Fax +26461 23-3272

SWAZILAND - MATSAPHA

P.O. Box C1769, The Hub, Manzini M200, Swaziland Lot 814 King Mswati III Avenue, Swaziland, Matsapha Tel +268 2518 8360, Fax +27 12 349 9871

ZAMBIA - KITWE

Karibu Business Park. Kitwe / Ndola Dual Carriageway, Kitwe Tel +26096 6880009 / +26095 5593676 Cel +260966 923 854



Technical Advice Centre 0800 20 50 29 / 011 842-4011