OUR HISTORY

Bardawil was founded in 1945 by Philip H. Bardawil, after having lived and worked in Manchester (U.K.) and Ghana in the 1920s and 30s. Bardawil & Co was started modestly in Beirut, Rue de Tripoli in the L'Orient Le Jour building, trading in a wide variety of goods. It rapidly focused and became known for its specialised machinery and equipment.

With the passing away of the founder in 1948, his son Fouad P. Bardawil first joined the business straight out of university followed in the 1950s by his brothers Habib and Labib.

The group started expanding into a number of Middle Eastern countries in the late 40s and early 50s: Syria, Kuwait and Iraq. It became known throughout the Middle East for its high-quality products & services.

In the 60s, the group established operations in the UAE and Saudi Arabian markets and started expanding its product range into new areas such as construction materials, specialised contracting services and aviation equipment and services.

With the commencement of the civil war in Lebanon in 1975, the group shifted its focus abroad, to strengthen its already existing foreign operations which had been established since the early 1950s and 60s. They were thus well positioned to take advantage of the massive construction efforts being undertaken by GCC countries in the late 1970s. Meanwhile, the home base operation kept on going despite all the difficulties faced during the war years.

The group expanded into the UK and manufacturing sectors in the early 80s through the acquisition of a small UK based construction chemical manufacturer Building Chemical Research Ltd.

The third generation started in the family business in the 80s. Philip F. Bardawil joined the group in the mid 80s, followed by Marwan F. Bardawil in the early 90s and then Albert F. Bardawil in the late 90s.

Expansion evolved in a decentralized mode with an open “architecture” to maintain flexibility in a challenging environment through numerous legal entities each focusing on specific territories or activities.

As of the late 80s, the group undertook expansion into a number of significant new ventures:

- Restructured in 1988, the already 30 year old operations in Kuwait through the establishment of Al-Bahar & Bardawil Specialities (B&B)
- Started in 1993 a specialised contracting operation in Lebanon, Bardawil Specialities sal, which eventually became focused on geotechnical contracting
- Started in 1997 a UAE based factory, Speciality Engineering Chemicals-SpEC, focusing on the manufacture of construction chemicals
- Started in 1997 a specialised concrete repair business in Saudi Arabia in JV with a leading general contractor
- Started in 1999 a new trading and specialised contracting business in Qatar (Bardawil Specialities-Qatar)

In the first decade of the new millennium, the group continued to expand into new areas such as:

- Life Support Services-started by the B&B operation in Iraq in 2003
- Re-entry into the Iraq market with a variety of construction services in 2003
- Establishment in 2005 of a JV with Viking by Bardawil Aviation in the UAE for the manufacturing of trailers for baggage handling
- Setting up in 2007 a unit for the manufacturing of expanded metal products in the UAE
- Establishment of a JV in 2008 by SpEC with Juffali for the manufacture of construction chemicals in Saudi Arabia
- Establishment of Bardawil G Systems Ltd. focusing on government systems and aircraft such as Bell Helicopters in the area
- Establishment of a silicone sealant plant in Qatar in 2011

The company prides itself in the highly competent and loyal staff that has been with the organization for many years. The fourth generation of family members have started now joining the business with Fouad P. Bardawil II joining the group in 2012.

With its main base in the Middle East, the group has weathered over the last seven decades the impact of severe political risk and upheaval ranging from nationalisations to wars, invasions, revolutions etc.-in addition to the normal changes in the economical cycles. This was made possible through the diversification of risk by having operations in different countries and sectors and the prudent and relentless efforts of the employees, executives and owners of the business.

As it stands today, the group is well established in Lebanon, UAE, Kuwait, Iraq, Qatar, Saudi Arabia, Jordan and the UK with over 1,000 employees.
PUTZMEISTER
Develops, produces & sells the following: Placing of concrete, Truck-mounted concrete pumps, Stationary concrete pumps, Stationary placing booms and accessories, Industrial technology, Pipe delivery of industrial solids.

FURUKAWA
Construction and mining machinery products, a comprehensive rock drill manufacturer.

EXPAMET
Produces an extensive range of BAT structural fixings, joist hangers, and restraint straps that are manufactured to suit a wide range of building applications.

C.I.M
Manufacturer of: potable water systems, wastewater systems, primary & secondary chemical containment, cooling towers, parking decks, roofing repair, plaza decks, water features, planter boxes, fountains, and many other applications.

ENARCO
Specialist in vibration, Surfacing & Compaction.

SPEC
Speciality Engineering Chemicals

ERICO
ERICO was a pioneer in the construction industry and manufactures a complete line of rebar splicing systems. Their mechanical rebar splices can provide a better solution than traditional lap splices.

SAMSUNG
Manufacturer of Hoists & Cranes

ALBA
Building solutions.

BONAR
Specialized in the design, production, and marketing of woven and nonwoven geotextiles, produced from raw materials including polypropylene and polyester.

CETCO
Manufacturer of a wide variety of active and passive waterproofing membrane technologies for use in protecting the building envelope above and below grade.

DEFLEX
Manufacturer of joint profiles and joint systems.

BALCO
Balco, Inc. is a leading manufacturer of architectural metal products with over 55 years of successful product designs and experience to suit all types of commercial buildings worldwide.
**IMPACT TESTING**
Manufacturers and suppliers of civil engineering materials testing equipment and instrumentation.

**MARCITAL**
Manufacturer of Hoists, Bending & Cutting Machines.

**NORTEN**
Plastic fences and warning tapes / nets.

**AGOM**
Bridge expansion joints

**RAWLPLUG**
Manufacturer of construction tools & equipment.

**TCM**
Manufacturer of Forklifts

**WEST SYSTEM**
WEST SYSTEM® epoxy is a versatile, 2-part, marine-grade epoxy that bonds and coats fiberglass, wood, metal, fabrics and other composite materials to provide superior strength and moisture resistance.

**XILIN**
Hand pallet trucks and Forklifts.

**TECNOTEST**
Manufacturer of high tech products, static & dynamic testing.

**NORTON**
The Saint-Gobain Performance Plastics, Film Products offer the broadest line of specialty high-performance polymeric films and membranes.
SISTER COMPANIES

**Specalty Engineering Chemicals (SpEC)**
DUBAI
Roundabout 10 – OPP PPC
Jebel Ali Free Zone
P.O.Box 61347
Dubai – U.A.E.
Tel: (+9714) 8836662
Fax: (+9714) 8837696

**Bardawil Specialities s.a.r.l.**
LEBANON
Bardawil Building, Dora Boulevard
P.O.B. 113430
Beirut - Lebanon
Tel: (+961-1) 872200 - (+961-3) 248890
Fax: (+961-1) 879917
E-Mail: bspecial@bardawil.com.lb
website: www.bardawilspec.com

**AL-BAHAR & BARDAWIL**
specialities w.l.l.
KUWAIT
Ardiya Industrial Area, Block 2, Plot 1,
P.O.Box 20376, Safat 13064,
Kuwait
Tel: (+965) 822999 / 4347363
Fax: (+965) 822002 / 4346813
E-Mail: bnbspec@ncc.moc.kw
website: www.bahar-bardawil.com

**Building Chemical Research Ltd.**
UK
Sion Street, Radcliffe
Manchester, M26 3SJ
United Kingdom
Tel: (+44-161) 723 2237 - 723 4299
Fax: (+44-161) 724 7699
E-Mail: sales@buildchem.co.uk

**Emirates Specialities Co. L.L.C.**
ABU DHABI
P.O.Box 46564
Abu Dhabi
United Arab Emirates
Tel: (+971-2) 6784800
Fax: (+971-2) 6778366
E-Mail: escoauh@emirates.net.ae

**Emirates Specialities Co. L.L.C.**
SHARJAH
P.O.Box 6156
Sharjah
United Arab Emirates
Tel: (+971-6) 5-397716
Fax: (+971-6) 5-397717

**Bardawil Specialities Qatar W.L.L.**
QATAR
P.O.Box 24044
Al Rayyan – Al Azizya – Salwa Road
Sh. Saud Bin Ahmed al Thani Bldg., No.8,
Above Modern Lebanese akery & al Jazira NET
Doha - Qatar
Tel: (+974) 4699436 / 7 - Fax: (+974) 4699435
Mobile Amin Adib: (+974) 5568785
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## 1- Bonding Adhesives

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>Yield</th>
<th>Compressive Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpECbuild BA10</td>
<td>Water resistant additive and bonding agent for cement systems.</td>
<td>5 m²/L</td>
<td></td>
</tr>
<tr>
<td>SpECbuild Primer E1</td>
<td>Epoxy resin bonding adhesive agent for cementitious materials.</td>
<td>5 m²/L</td>
<td></td>
</tr>
</tbody>
</table>

## 2- Concrete Repair

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
<th>Yield</th>
<th>Compressive Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpECcoat Zn25</td>
<td>One part zinc epoxy primer for exposed reinforcement, anti-corrosion.</td>
<td>7 m²/L</td>
<td>60 MPA</td>
</tr>
<tr>
<td>SpECbuild SG15</td>
<td>High strength, one part cementitious repair compound, non-shrink mortar.</td>
<td>1.1 m²</td>
<td>35 MPA</td>
</tr>
<tr>
<td>SpECbuild LWC50</td>
<td>Lightweight cementitious repair compound.</td>
<td>1.6 m²</td>
<td>35 MPA</td>
</tr>
<tr>
<td>SpECbuild MC500</td>
<td>High fluidity micro-concrete.</td>
<td>12.3L</td>
<td>80 MPA</td>
</tr>
<tr>
<td>SpECbuild SC</td>
<td>Cementitious skim coat for fair faced finishing.</td>
<td>4.2 m²</td>
<td></td>
</tr>
<tr>
<td>SpECcoat BC</td>
<td>High build epoxy resin bedding compound and skim coat.</td>
<td>1.74Kg/m²</td>
<td></td>
</tr>
<tr>
<td>Specbuild EM</td>
<td>High strength, three component epoxy mortar.</td>
<td>2.4 m²</td>
<td></td>
</tr>
</tbody>
</table>
### 3-GROUNTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 SpEC Grout C1</td>
<td>High strength, shrinkage compensated cementations grout</td>
<td>Packing: 25Kg bag</td>
</tr>
<tr>
<td>11 SpECgrout C2</td>
<td>High strength, shrinkage compensated cementitious grout. C2 produces a free-flowing grout, providing a maximum contact area to the structure being grouted</td>
<td>Packing: 25Kg bag</td>
</tr>
</tbody>
</table>

### 3.0-CURING COMPонENTS & RELEASE AGENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 SpECbuild MRA</td>
<td>Mould release agent for concrete</td>
<td>Yield: 40 – 70m²/L</td>
</tr>
<tr>
<td>13 SpECcureWB</td>
<td>Water based curing compound.</td>
<td>Yield: 5 – 6m²/L</td>
</tr>
<tr>
<td>14 SpECcureWE</td>
<td>Resin based curing compound.</td>
<td>Yield: 4.5 – 5.5m²/L</td>
</tr>
</tbody>
</table>

### 4-WATERPROOFING

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 SpECTite WS</td>
<td>Capillary crystalline waterproof coating used on both positive and negative sides of water tanks, swimming pools, foundations, etc.</td>
<td>Yield:  • Brush: 1 to 1.5kg/m²/layer  • Trowel: 2 to 2.5kg/m²/layer  • Spray: 1.5kg/m²/layer</td>
</tr>
<tr>
<td>16 SpECTite CW100</td>
<td>Flexible cementitious waterproof membrane for swimming pools and water tanks.</td>
<td>Yield: 6.4m² @ 2mm thickness</td>
</tr>
<tr>
<td>17 Spectite RS60</td>
<td>Cement based rapid set waterproofing mortar.</td>
<td>Packing: 5Kg, 25Kg</td>
</tr>
</tbody>
</table>
PU Primer
One component, solvent-free polyurethane based primer/sealer. Used on all porors or non-porous substrates, e.g. concrete (wet, humid or dry), marble, ceramic tiles, glass & metal surfaces. Can be used as a concrete sealer.

SpEccoat PE400
Coal tar pitch, epoxy coating
Packing: 15L
Yield: @200microns: 75m²/pack

Bitmul R
Rubberized bitumen emulsion protective coating.
Packing: 20L and 200L drums.
Yield: 1 to 3m²/L

Black Bitumen paint
Solvent based bituminous protective coating.
Yield: 10m²/L/coat

SpEccoat D
Acrylic based flexible coating for roofs & facades. UV resistant.
Available colors: Clear, white and brut.
Packing: 1L, 4L and 20L.

Fire Stone EPDM
The main component of Firestone EPDM Roofing Systems is Firestone RubberGard EPDM membrane, a single-ply synthetic rubber roofing membrane made of ethylene – propylene – diene terpolymer, mixed with carbon black, oils, curing agents and processing aids. It is calendared into large sheets and vulcanized.

All complementary accessories available in our stores.
31m x 3m Roll

WATERPROOFING MEMRANES (SBS – APP)

SBS
Thickness: 3mm and 4mm
Available: Slated, Plain, Antirrot.

APP
Thickness: 3mm and 4mm
Available: Plain
DRAINAGE MEMBRANES
High-density polyethylene nodular sheets for wall & floor drainage & protection of waterproofing systems during backfilling.
Weight: 500g/m²
Roll size: 2mx20m

CARTONAL
Polypropylene Protection Board 1x2m.
Available: 2.2mm & 4mm thickness

4.3 Waterstops

Swellable Waterstops:

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bentonite Superstop std</td>
<td>2.5cmx2cmx4m</td>
</tr>
<tr>
<td>Bentonite Superstop std</td>
<td>2.5cmx1.25cmx6.1m</td>
</tr>
<tr>
<td>Bentonite Superstop sw</td>
<td>2.5cmx2cmx4m</td>
</tr>
<tr>
<td>Bentonite Superstop sw</td>
<td>2.5cmx1.25cmx6.1m</td>
</tr>
</tbody>
</table>

SpEC PVC WaterStops
Internal & External Fixed PVC Waterstops
SpECtite PVC Waterstop is a high grade PVC extrusion formulated to meet the highest performance specifications. SpECtite PVC Waterstops are supplied as straight lengths along with factory fabricated junction pieces to simplify layouts and site jointing.
4.4 Admixtures & Water repellent

**Spec Integral Waterproofer**

Integral waterproofing admixture for cement mixes.

Packing: 5L, 25L, and 200L drums.

**Dow Corning Dri-Sil 55**

Silane-siloxane based water-repellent for facades, specially for sand stones.

Used on concrete & bricks.

Coverage: 2-6 m²/L

**Dow Corning IE-6683 Emulsion**

Colorless water-based silicon water-repellent for concrete, bricks, and stone facades.

Coverage: 6 m²/L

**Dow Corning Z-6689 Solvent base**

For use on neutral and alkaline mineral substrates such as brick, sandstone, concrete and mortar that require water repellency.

**5-GEOTEXTILES**

**Bonar**

Non-woven polypropylene sheets used for filtration & separation on waterproofing systems.

Available: 80grm up to 1,000grm

Roll size:
- 3m x 100m
- 5.25m x 100m

**6-TILE ADHESIVES & TILE GROUTS**

**SpECtite WTA**

Cementitious waterproof tile adhesive

Yield: 2.5 - 5 m²/L coverage for 3 - 6mm depth

**SpECtite WTA Latex**

Polymer modified waterproof mortar/adhesive for ceramic tiles, stone and marble

Yield: 2.4-9.4 m² depending on depth.

**SpECtite ETA**

Two-component solvent free Epoxy resin ceramic tile adhesive and grout.

**SpECtiteTileGrout**

Cement based grout for joints in ceramic tiles

Yield: 2.4–9.4 m² depending on depth.
SpECTop ARE
High performance epoxy coating
Yield: 10m²/L/coat @100µm

SpECTop SRE 500
Solvent-free high build epoxy floor coating.
Yield: 5 m²/L @ 200µm

SpECTop NS Grains
Graded silica sand for use in conjunction with coating and flooring system.
Packing: 25Kg bags

SpECTop UV
UV stable polyurethane sealer coat
Yield: 10.5m²/L/coat

SpECTop CPD system
Car park decking system.
Consists of:
• SpECTop CPD Primer SB
• SpECTop CPD Primer SF
• SpECTop CPD Elastomeric membrane
• SpECTop CPD Finish
• SpECTop UV
Please call us for more information.

SpECTop Armourite STD
Dry shake, monolithic surface hardener for new concrete floors.
Yield: 5 – 7Kg/m²

SpEC Surface Hardner
Sodium silicate based ready to use surface hardening liquid. Improves abrasion and wear resistance, and to overcome dusting problems.

Available brands:
46 Deflex 47 Balco
Expansion joint systems are designed to withstand the elements in all climates while providing a structurally sound and watertight building expansion joint.
Please call us for more information.
9- SEALANTS

**SpECcord**
Back-up Rod. Closed cell polyethylene back-up cord for joint sealants, joint filler for closing and backing up designed joints before joint sealing.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Chr8</th>
<th>Chr10</th>
<th>Chr15</th>
<th>Chr20</th>
<th>Chr25</th>
<th>Chr30</th>
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<tbody>
<tr>
<td>mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>8mm</td>
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<tr>
<td>10mm</td>
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</tr>
<tr>
<td>15mm</td>
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</tr>
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<td>20mm</td>
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</tr>
<tr>
<td>25mm</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>30mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SpECCell Polyethylene 40**
Closed cell joint filler board. Suitable for use as an expansion joint filler in concrete, brick, blockwork and isolation joints.

Thickness: 10, 15, 20, 25mm
Board size: 1m x 2m

**SpecCell Fibre**
Bitumen impregnated fibre board joint filler

**Styropan Board**
Expanded & Extruded
Available: 1cm up to 5cm thickness

**SpECseal 625HD 2.5L**
Two-part, polysulphide civil engineering & construction sealant – gun grade.

**SpECseal 625P 4L**
Two-part, polysulphide civil engineering & construction sealant – pouring grade.

SpECseal PU Sealant 600ml
Grey, Teja (Brick), and White
Polyurethane sealant for vertical and horizontal joints. Used on concrete, wood, marble, ceramic, aluminum and others.

10- FIRESTOP SEALANTS

**Dow Corning 400**
- Fire rating of up to 2hrs
- Tack-free time: 30-45 mn

**Dow Corning 700**
- Fire rating of up to 4hrs
- Tack-free time: 1.5hrs
**813 C Construction and Concrete Silicone Sealant**

Neutral, 1-part Silicone Rubber
Good unprimed adhesion to a variety of substrates
Low modulus sealant
Expansion/compression movement ability +/- 50% of the original joint width.

Packaging: 310 ml cartridges (12 / box) & 600 ml sausages.

**791 Silicone weatherproofing sealant**

Neutral, one-part silicone sealant.
Ideal for expansion.

Dow Corning 895

One component silicone sealant for structural glazing.

310ml

---

**Lenton Couplers**

3 types of couplers available for all rebar sizes:
• Regular
• Transition – for different sizes of rebar connection
• Terminator

Please call us for more information.

---

**Galvanised Steel Angle Beads**

Expamet angle beads provides a true, straight arris that will not easily chip or crack.
They also serve as straight edge and guide for planning off plaster and speed up the operation of setting up the arris.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Plaster Depth (mm)</th>
<th>Width of Wing (mm)</th>
<th>Length (mm)</th>
<th>Quantity per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>550</td>
<td>16</td>
<td>56 x 56</td>
<td>2400/2700/3000</td>
<td>25/50</td>
</tr>
<tr>
<td>558</td>
<td>13</td>
<td>48 x 48</td>
<td>2400/2700/3000</td>
<td>25/50</td>
</tr>
<tr>
<td>592</td>
<td>20</td>
<td>64 x 64</td>
<td>2400/2700/3000</td>
<td>25/50</td>
</tr>
</tbody>
</table>

---

**Plaster stop & Casting beads**

Galvanised Steel Stop Beads
Plaster stop and casing beads. For use as a trim for plaster up to openings and abutments.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Plaster Depth (mm)</th>
<th>Length (mm)</th>
<th>Quantity per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>562</td>
<td>10mm</td>
<td>2400/2700/2850/3000</td>
<td>50</td>
</tr>
<tr>
<td>563</td>
<td>13mm</td>
<td>2400/2700/2850/3000</td>
<td>50</td>
</tr>
<tr>
<td>565</td>
<td>16mm</td>
<td>2400/2700/2850/3000</td>
<td>50</td>
</tr>
<tr>
<td>566</td>
<td>19mm</td>
<td>2400/2700/2850/3000</td>
<td>50</td>
</tr>
</tbody>
</table>
Architrave & Feature beads

Designed to form a plaster stop and a shadow line recess around door frames and elsewhere. They provide a key for plaster and a guide for ruling off.

Manufactured from pre-galvanized steel.

Galvanised Steel Architrave and Feature Beads

Control & Movement beads

Expamet control and movement beads are supplied ready for fixing to form joints in plaster and render. Large areas of plaster can be reduced to a series of smaller panels as is often required in ASTM specifications.

The control joint bellows type bead is a continuous galvanized steel strip folded to allow expansion and contraction.

The movement bead consists of two lengths of plaster stop bead joined by a white PVC extrusion providing for a +3mm, -1mm movement.

Galvanised beads are manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D+z275.

Stainless steel beads are manufactured to BS EN13658-1/2:2005, using stainless steel to BSEN 10088-2 type 1.43046 (grade 304).

Flat Lathing

Expanded Metal Lathing

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Material Thickness</th>
<th>Weight kg/m²</th>
<th>Max Fixing Centres (mm)</th>
<th>Sheet Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>263</td>
<td>0.500mm</td>
<td>1.11</td>
<td>300</td>
<td>2500 x 700</td>
</tr>
<tr>
<td>264</td>
<td>0.725mm</td>
<td>1.61</td>
<td>350</td>
<td>2500 x 700</td>
</tr>
<tr>
<td>265</td>
<td>0.400mm</td>
<td>0.91</td>
<td>300</td>
<td>2500 x 700</td>
</tr>
<tr>
<td>955</td>
<td>0.460mm</td>
<td>1.15</td>
<td>350</td>
<td>2500 x 700</td>
</tr>
</tbody>
</table>

HY-RIB Permanent formwork for concrete

Hy-Rib® is primarily used as permanent formwork for concrete shuttering. However, it can be used for plasterboard and render applications and as a carrier for fire protection materials.

Manufactured from pre-galvanised steel to BSEN 10346, Hy-Rib® is also available using stainless steel BSEN 10088-2 type 1.4301 (grade 304).

The profile of Hy-Rib® open mesh in combination with its ribs provide an inherently stiff sheet along its length. It can be used for flat and curved surfaces.

Hy-Rib® is available in three thickness grades; each with a distinctive coloured stripe inside the rib to aid identification.
Blockwork reinforcement mesh
Reinforced block work is preferable in all types of building because steel reinforcement adds tensile strenght of this traditional construction method.

- Expamet block reinforcement is a length of expanded steel mesh with continuity of steel throughout.
- No joints, welds or interweaving to fail under stress.
- Allows reinforcement for plaster and asphalt, over wall chases and for keying smooth surfaces.

Expamet block reinforcement should be set in the bed-joints with its outer edge about 25mm from the face of the block work.

As a general rule, a strip 65mm wide should be used in every third course of a 105mm wall. Other widths may be used to suit any wall thickness. Combinations of different widths may be used to suit any wall thickness.

<table>
<thead>
<tr>
<th>Ref. No</th>
<th>Material</th>
<th>Coil width (mm)</th>
<th>Coil length (m)</th>
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<tbody>
<tr>
<td>774/100</td>
<td>Pre-Galvanised Steel</td>
<td>65</td>
<td>100</td>
</tr>
<tr>
<td>775/100</td>
<td>Pre-Galvanised Steel</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>776/100</td>
<td>Pre-Galvanised Steel</td>
<td>115</td>
<td>100</td>
</tr>
<tr>
<td>777/100</td>
<td>Pre-Galvanised Steel</td>
<td>150</td>
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<tr>
<td>778/100</td>
<td>Pre-Galvanised Steel</td>
<td>175</td>
<td>100</td>
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<tr>
<td>768/20</td>
<td>Stainless Steel</td>
<td>65</td>
<td>20</td>
</tr>
<tr>
<td>769/20</td>
<td>Stainless Steel</td>
<td>115</td>
<td>20</td>
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<tr>
<td>770/20</td>
<td>Stainless Steel</td>
<td>175</td>
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<tr>
<td>771/20</td>
<td>Stainless Steel</td>
<td>225</td>
<td>20</td>
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</table>

Stahlfix
Low odor resin, at high performance, rapid curing, to use in chemical anchoring systems. Applied in one single action, this resin will produce a strong chemical resistant fixing. (300 ml)

<table>
<thead>
<tr>
<th>Item</th>
<th>Normfix 25 جرس 25</th>
<th>Normfix 30 جرس 30</th>
<th>Normfix 40 جرس 40</th>
<th>Normfix 50 جرس 50</th>
<th>Normfix 60 جرس 60</th>
<th>Normfix 70 جرس 70</th>
</tr>
</thead>
<tbody>
<tr>
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<td>40mm</td>
<td>50mm</td>
<td>60mm</td>
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<table>
<thead>
<tr>
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<th>Mfix 30 جرس 30</th>
<th>Mfix 40 جرس 40</th>
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<th>Mfix 60 جرس 60</th>
<th>Mfix 70 جرس 70</th>
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</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>25mm</td>
<td>30mm</td>
<td>40mm</td>
<td>50mm</td>
<td>60mm</td>
<td>70mm</td>
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<table>
<thead>
<tr>
<th>Item</th>
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<th>Unifix 30 جرس 30</th>
<th>Unifix 40 جرس 40</th>
<th>Unifix 50 جرس 50</th>
<th>Unifix 60 جرس 60</th>
<th>Unifix 70 جرس 70</th>
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</thead>
<tbody>
<tr>
<td>Height</td>
<td>25mm</td>
<td>30mm</td>
<td>40mm</td>
<td>50mm</td>
<td>60mm</td>
<td>70mm</td>
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<table>
<thead>
<tr>
<th>Properties</th>
<th>Length</th>
<th>Smaller Base</th>
<th>Longer Base</th>
<th>Height</th>
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<tbody>
<tr>
<td>Trapezoid</td>
<td>2.5mm</td>
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<td>20mm</td>
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<tr>
<td>Trapezoid</td>
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<td>25mm</td>
<td>30mm</td>
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<table>
<thead>
<tr>
<th>Item</th>
<th>Tube 11 قسطل 11</th>
<th>Tube 14 قسطل 14</th>
<th>Tube 22 قسطل 22</th>
<th>Tube 30 قسطل 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>3mm</td>
<td>3mm</td>
<td>3mm</td>
<td>3mm</td>
</tr>
<tr>
<td>In. Dmt. قطر الداخلي</td>
<td>11mm</td>
<td>14mm</td>
<td>22mm</td>
<td>29mm</td>
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<tr>
<td>Ex. Dmt. قطر الخارج</td>
<td>13mm</td>
<td>17mm</td>
<td>25mm</td>
<td>33mm</td>
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</table>

<table>
<thead>
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<th>Cone 14 كون 14</th>
<th>Cone 22 كون 22</th>
<th>Cone 30 كون 30</th>
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<tbody>
<tr>
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<td>14mm</td>
<td>22mm</td>
<td>29mm</td>
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<tr>
<td>Item</td>
<td>Bouchon 11</td>
<td>Bouchon 14</td>
<td>Bouchon 20</td>
<td>Bouchon 22A</td>
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<tr>
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<td>------------</td>
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<tr>
<td>Sml. Dmt</td>
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<td>12.4mm</td>
<td>1.85mm</td>
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<td>Big. Dmt</td>
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<td>20.5mm</td>
<td>23mm</td>
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<tr>
<td>Height</td>
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<td>24mm</td>
<td>18mm</td>
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<table>
<thead>
<tr>
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<th>Length Width</th>
<th>Diagonal</th>
<th>Width</th>
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<td>Chamfer 10<em>10</em>15</td>
<td>2m</td>
<td>15mm</td>
<td>10mm</td>
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<tr>
<td>Chamfer 15<em>15</em>20</td>
<td>2m</td>
<td>20mm</td>
<td>15mm</td>
</tr>
<tr>
<td>Chamfer 20<em>20</em>25</td>
<td>2m</td>
<td>25mm</td>
<td>20mm</td>
</tr>
<tr>
<td>Chamfer 25<em>25</em>34</td>
<td>2m</td>
<td>34mm</td>
<td>25mm</td>
</tr>
<tr>
<td>Chamfer 30<em>30</em>40</td>
<td>2m</td>
<td>40mm</td>
<td>30mm</td>
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</table>

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<thead>
<tr>
<th>Item</th>
<th>Length Width</th>
<th>Diagonal</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover Joint 17R</td>
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</tr>
<tr>
<td>Cover Joint 20R</td>
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<td>35mm</td>
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<tr>
<td>Cover Joint 20R</td>
<td>2.5m</td>
<td>34mm</td>
<td>43mm</td>
</tr>
</tbody>
</table>

Green & Blue construction net
Available in 60, 80 & 100grm. 3x50m Roll.

Fibre glass mesh
Flexible fiberglass mesh to reinforce plaster, waterproof coatings, marble, etc. Alkali & water resistant.
Available in:
- 70g (2x2mm openings – 1x50m)
- 110g (1x1cm openings – 1x50m)
- 145g (5x5mm openings – 1x50m)

Self-Adhesive Fibre Glass Tape
Dimensions: 5x20m, 2.85x2.85mm

PVC orange fence
Available: 1mx50m
Ekobit

Aluminum covered bituminous membranes.

Available:
• 20cm x 10m
• 15cm x 10m
• 10cm x 10m

Polypropylene Fibre

- Alibaf Al-ribiotm: تضاف إلى خليط الورقة (طول 1.6 ملم) أو الباتون (طول 4 ملم) للتكيف من منتصفا للجمجم أو الخضور الشقوق، وتحسين مقاومتها للمطر والضربات والتآكل الجليد والحرق.

Warning tape

Aluminum Warning tape

Norton tape

Adhesive tape on one side or double side.
Available in different sizes and thickness

Waste Landfill products (HDPE and Geotextiles)

- Polyethylene clear sheet
  - 40 micron, 2m wide
  - 60 micron, 2m wide
  - 80 micron, 2m wide
  - 100 micron, 2m wide

- Geotextiles
  - Materials for landfilling products
  - HDPE and Geotextiles
## Construction Equipment

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Hoist</th>
<th>Diameter</th>
<th>Speed</th>
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<tbody>
<tr>
<td><strong>SMO-10004</strong></td>
<td>Hoist 4m</td>
<td>7.1mm</td>
<td>5.8 m/min</td>
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</tr>
<tr>
<td><strong>SMO-20004</strong></td>
<td>Hoist 4m x 2 lines</td>
<td>7.1mm</td>
<td>3.5 m/min</td>
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</tr>
<tr>
<td><strong>SMO-30004</strong></td>
<td>Hoist 4m</td>
<td>11.2mm</td>
<td>4.4 m/min</td>
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</tr>
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<td><strong>SMO-50004</strong></td>
<td>Hoist 4m x 2 lines</td>
<td>11.2mm</td>
<td>5.8 m/min</td>
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**SMT-10004**

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**Please call us for more information**

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**SMT-10004**

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<td></td>
</tr>
</tbody>
</table>

**Please call us for more information**

## Question

Please call us for more information.
**ALBA**

**Model 60**
- Table: 60cm
- Disc diam: 300mm-350mm

**Model 90**
- Table: 90cm
- Disc diam: 300mm-350mm

**Model 125**
- Table: 125cm
- Disc diam: 300mm-350mm

**SUSPENDED PLATFORM MANUAL SCAFFOLDING**

**Model 16A**
- Capacity: 1,600 KG
- Wire rope advance per cycle: 58mm
- Normal strength in lever: 40kg
- Wire rope: 11.3mm

**Model 32A**
- Capacity: 3,200 KG
- Wire rope advance per cycle: 45mm
- Normal strength in lever: 53kg
- Wire rope: 16.3mm

**KING HOIST**

**M500**
- Payload capacity: 500Kg
- 220v
- 25m chain

**T500**
- Payload capacity: 500Kg
- 380v
- 40m chain

**TD1000**
- Payload capacity: 500Kg
- 380v
- 40m chain

Pulling And Lifting Winch

**Model 16A**
- Capacity: 1,600 KG
- Wire rope advance per cycle: 58mm
- Normal strength in lever: 40kg
- Wire rope: 11.3mm

**Model 32A**
- Capacity: 3,200 KG
- Wire rope advance per cycle: 45mm
- Normal strength in lever: 53kg
- Wire rope: 16.3mm
CONSTRUCTION EQUIPMENT

PLATFORM

Model CO-500
Load Capacity: 509KG
Cable min/max Length: 30-50m
Wire Rope advance per Cycle: 25/65mm

Model T-500
Load Capacity: 509KG
Cable min/max Length: 47m
Wire Rope advance per Cycle: 40mm

REBAR CUTTING MACHINE

MARCITAL

C32
KW: 2.2
Steel density: 65kg./mm²: 26
Steel density: 85kg./mm²: 24
Oil/Kg: 3

C36
KW: 3
Steel density: 65kg./mm²: 30
Steel density: 85kg./mm²: 26
Oil/Kg: 3

C42
KW: 3
Steel density: 65kg./mm²: 34
Steel density: 85kg./mm²: 30
Oil/Kg: 4

REBAR BENDING MACHINE

MARCITAL

P32
KW: 2.2
Steel density: 65kg./mm²: 28
Steel density: 85kg./mm²: 26
Oil/Kg: 8

P36
KW: 3
Steel density: 65kg./mm²: 32
Steel density: 85kg./mm²: 30
Oil/Kg: 8

P42
KW: 3
Steel density: 65kg./mm²: 36
Steel density: 85kg./mm²: 34
Oil/Kg: 13

COMBINED MACHINE

MARCITAL

CP32/36
KW: 3
Steel density: 65kg./mm²: 28/34
Steel density: 85kg./mm²: 25/32
Oil/Kg: 8

CP40/46:
KW: 4
Steel density: 65kg./mm²: 32/38
Steel density: 85kg./mm²: 30/36
Oil/Kg: 13

www.bardawilco.com
1-ENARCO Vibrators

AVMU
Poker Head: 32-38-48-58 mm
Hose Length: 4m-6m
Voltage: 230v
Power: 2.300 3HP

MAFP
Poker Head: 38-50-58-65-75 mm
Hose Length: 5m
Frequency: 200 hz
Voltage: 42V 3~
Centrifugal Force 1500-7600

AFE Suitcase
Socket: 1-4
Frequency: 50Hz
Voltage: 230v 1~
KVA: 1- 4.50

AFE Tubular
Socket: 1-4
Frequency: 50Hz
Voltage: 230v 1~
KVA: 1- 4.50

Petrol engine vibrator
Engine: Robin, 5hp
Poker head: 32 – 38 – 48 – 58mm
Hose Length: 4m – 6m

PNU
Poker Head: 25-40-50-58-80 mm
SHAFT: 4m-6m

VE: EXTERNAL VIBRATOR
Frequency: 50 hz
Voltage: 230v 1~ -203/380V 3~
Centrifugal Force 600 -14600
150/M-300/M-300/T-600/T

Hurcan-L
Motor: Honda
Profile: 1.5m-2m-2.5m-3m-4m

QX
Motor: 230v1-Turbo Honda-Robin
Profile: 1.5m-2m-2.5m-3m-4m

Tornado
Motor: 230v1-Turbo Honda-Robin
Profile: 1.5m-2m-2.5m-3m-4m
**TRO**
Weight: 4.57 kg  
Profile Length: 0.9m, 1.20m-1.8m  
Profile width: 205 mm

**Power Trowel**
Motor Type: GX160 / Petrol  
C.C.: 183  
MAX Power: KW 3.68

**Concrete Mixer**
Easy to move and have a small volume  
with merits as rapid mixing rate and high quality and so on.  
Portable concrete mixer CM10 with drum capacity 120L, batch output 75L  
Motor: 370W, 220V

**Plate compactor**
Size from 60 to 1000 kg  
Please call us for more information

**Water Jet machine**
Pressure washer, 210Bar, 7HP – 5 different spraying outbursts.  
Available up to 2000 bar.

**HAND PALLET TRUCKS**

**BFB with brake system**
Dimensions: 685x1220mm  
Payload: 2.5T

**DB economic design**
Dimensions: 550x1150mm  
Payload: 2T

**DF Small**
Dimensions: 550x1150mm  
Payload: 2.5T

**DF Big**
Dimensions: 685x1220mm  
Payload: 2.5T

**HD08 Hand Pallet for buckets**

**JFA High lift**
Dimensions: 685x1220mm  
Payload: 1T  
Height: 1m
Furukawa Hydraulic Breaker

- Pneumatic breakers
- Mortar machine
- Waste Shredder
- Waste Compactor

Tecnotest Lab Equipment

- Stones Crusher
- Building Maintenance Unit

High Pressure Waterjet

- Floor Scarifier
- Floor Saw
REFERENCES

CITY MALL
Tile adhesive (Spectite WTA), epoxy flooring (Spectop SRE)

BANK OF BEIRUT
Dow Corning silicone Sealants

SUMMERLAND
Expansion joints (Balco) & Firestop Sealant (DC 700)

SAMU BEIRUT
Plastering accessories (Expamet), Sealants (Specseal, Dow corning), Hy-rib, Placing boom

DAMAC TOWER
Concrete accessories, Hy-Rib, Plastering & blockwork accessories (Expamet), Spec Flex and Dow corning sealants

BEIRUT TERRACES
Concrete accessories, Hy-Rib, and Plastering & blockwork accessories (Expamet)

CRYSTAL TOWER & PLAZA
Concrete accessories, Plastering & blockwork accessories (Expamet), Dow corning silicones & sealants and styropan boards

PANORAMA
Concrete accessories and Hy-Rib

MAJESTIC TOWER
Plastering & blockwork accessories (Expamet)

HOCHAR TOWER
Hy-Rib, Plastering accessories (Expamet) and Dow Corning silicones

CARLTON RESIDENCE
Tile adhesive (SpecTite WTA) and Waterproofing (SpecTite CW100)

KANTARI GATE
Waterproofing (SpecTite WTA + Firestone EPDM)
CREDIT LIBANAIS
Dow corning silicones, Plastering accessories (Expamet), Concrete accessories and Hy-Rib

VERDUN VILLAGE
Waterproofing (SpecTite CW100)

NESTLE - DBAYEH
Epoxy works (SpecTop SRE500)

KSARA WINERY
Epoxy works (SpecTop SRE500)

BEIRUT HEIGHTS
Plastering accessories (Expamet)

ACHRAFIEH 4748
Dow Corning silicones, Waterproofing (Firestone EPDM) and Plastering accessories (Expamet)

TRANSMED
Expansion joints (Balco)

HAWA CHICKEN
Epoxy works (SpecTop SRE500) and Waterproofing (SpecTite CW100)

MOOREA BEACH – JIYYEH
Waterproofing works (SpecTite CW100), Tile adhesive (SpecTite WTA)

OLYMPIC SWIMMING POOL
Concrete accessories, Hy-Rib, Waterproofing works (SpecTite CW100)

WATERFRONT DBAYEH
Expamet, Mold Release Agent

VENUS TOWER
Hy-Rib, Expamet