Manual of Green Building Materials, Products & Their Testing Facilities

Dubai Central Laboratory Dept.
01/01/2012
Edition (1)
As per the vision of Dubai Municipality & Dubai Electricity & Water Authority and the interest of public and customers, total of (79) Green Building Regulations have been issued.

This manual is a register of different types of Green Materials, products & their testing facilities that will be updated periodically.

The end user/customer shall make sure that these materials and testing facilities are certified/accredited as per the requirements of Dubai Municipality.

For enquiry, please contact
Engr. Ali Ahmed Elian,
Head of Engineering Materials Section of
Dubai Central laboratory—Dubai Municipality.
Tel. 04 3027272,
Fax. 04-3366160
E-Mail: aaelian@dm.gov.ae
Section Three
Econology And Planning
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<th>301.01</th>
<th>Preferred Parking</th>
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<td><strong>Applicable Materials &amp; Systems</strong></td>
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<td>Dubai Municipality Administrative Resolution No. – 125 – 2001</td>
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<td><strong>Availability of material</strong></td>
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<th>301.02</th>
<th>Enabled access</th>
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<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
<td>1. Special Need Toilet</td>
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</tbody>
</table>
| **Applicable Standards / Regulations** | Dubai Municipality Administrative Resolution No.- 125 – 2001  
| **Availability of material** | 1. Special need Toilet |

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<tr>
<th>301.03</th>
<th>Bicycle Storage and Changing Rooms</th>
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<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
<td>Cycle Rack</td>
</tr>
</tbody>
</table>
| **Applicable Standards / Regulations** | Dubai Municipality Administrative Resolution No.- 125 – 2001  
Dubai Bicycle Master Plan 2008 - RTA |
| **Availability of material** | 1. Cycle Rack |
## 302 Chapter 2: Ecology and Landscaping

### 302.01 Local Species

**Applicable Materials & Systems**

1. Vegetated roof
2. Planted area

**Applicable Standards / Regulations**

Not Applicable

**Availability of material**

1. Vegetated Roof

## 303 Chapter 3: Neighborhood Pollution

### 303.01 Exterior Light Pollution and Controls

**Applicable Materials & Systems**

1. Light shield
2. Automatic Control for Exterior Lighting

**Applicable Standards / Regulations**

Not Applicable

**Availability of material**

1. Light Shield

2. Automatic Control for Exterior Lighting
# Chapter: 4 Micro Climate & Outdoor Comfort

## 304.01 Urban Heat Island Effect

### Applicable Materials & Systems

1. High SRI Roof

### Applicable Standards / Regulations


### Availability of material

1. High SRI Roof

**ROOF CARE CO.L.L.C,**

Contact Details: P.O Box- 1813, U.A.Q.
Tel: +971 6 7670666, Fax:+971 6 7670198,
E-mail: roofcare@emirates.net.ae,
www.roof-care.com

Contact Person: Saji P. Varghese (+971 50 9387403)

The professional team of ROOF-CARE offers two comprehensive systems called: “COMBO ROOF SYSTEM- for roof water proofing and heat insulation” and “Henkel Ceresit External Insulation Finishing System for External Walls” with Dubai municipality’s approval and manufacturer’s performance guarantee.

**Al serkal & Assarain concrete products LLC,**

Contact Details: P.O Box 282935, Dubai
Tel: +971 4 8842207 Fax: +971 4 8842250
Mob: +971 50 7082104
E mail: pm.ak@alserkal-assarain.com
www.alserkal-assarain.com

Contact Person: Mr. Aswinikumar Kakshmaiah

**Specialist in green building products**: Roof slabs/Masonry normal & light weight blocks/Pavings-Flags/Insulation sandwich & Roof filler blocks/Kerb stones.

## 304.02 Green Roof
<table>
<thead>
<tr>
<th>Applicable Materials &amp; Systems</th>
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<tr>
<td>1. Green Roof System</td>
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<table>
<thead>
<tr>
<th>Applicable Standards / Regulations</th>
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<td>ASTM E – 2400, ASTM E - 1980</td>
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<td>1. Green Roof System</td>
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<th>304.03 Light Colors on the Outside of Buildings</th>
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<td>Applicable Materials &amp; Systems</td>
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<td>1. High LRV Coatings &amp; Paints</td>
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<tr>
<th>Applicable Standards / Regulations</th>
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<th>Availability of material</th>
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<tbody>
<tr>
<td>1. High LRV Coatings &amp; Paints</td>
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<tr>
<th>Jotun Paints</th>
</tr>
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<tr>
<td>Contact Details: Jotun UAE Ltd. P.O.Box 3671, Al Quoz, Dubai. Tel 04 3395000 Fax: 04 3380666 E mail: <a href="mailto:csd@jotundxb.ae">csd@jotundxb.ae</a> <a href="http://www.jotun.com/me">http://www.jotun.com/me</a></td>
</tr>
<tr>
<td>Contact Person: Mr. Wael Fahmy Regional sales Manager</td>
</tr>
<tr>
<td>Founded in 1926 in Norway and established in the Middle East since 1974, Jotun - one of the world’s leading paint manufacturers, contributes to the environment by developing and offering competitive, sustainable products and solutions. A truly single source solution for clients, consultants and contractors alike.</td>
</tr>
</tbody>
</table>
Energy Zone L.L.C.
Contact Details: P.O.Box # 62650, Dubai
Tel-04-2671622, Fax-04-2671633
E-mail. energyzo@eim.ae
www.energyzonecoating.com
Contact Person: Eng. Claude Nasif,
Managing Director

Green, Energy Saving & Energy Star Approved Coatings & Paints. Zero VOC & Low VOC Interior and Exterior Paints Including Waterproofing, Insulating, Protective, Decorative, Soundproofing, Industrial, Anti-Corrosion...
Coatings for Roofs, Walls, Floors, Tanks & More. Saving Energy while Preserving Environment & Atmosphere

Caparol LLC.
Contact Details: Tel.04 - 3473538 Fax.04-3474256
E-mail: info@caparol.ae
www.caparol.ae
Contact Person: Mr.Ahmed El Bayaa,
Regional Sales Manager

Products Offered: Paints, Concrete Coatings & Thermal Insulation
The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group's headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.

AkzoNobel
Contact Details: P.O Box 290, Al Quoz, Dubai
Tel: +971 4 3472491, Fax: +971 4 3472339
E-mail: tenders.me@akzonobel.com
www.akzonobel.com
Contact Person: Mr. Simon Major,
General Manager (M.E. Business Development)

AkzoNobel is the largest global paint and coatings company and a major producer of speciality chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Our portfolio includes well known brands such as Dulux, Sikkens, International and Eka. We are a Global Fortune 500 company and are consistently ranked as one of the leaders on the Dow Jones Sustainability index. With operations in more than 80 countries, our 55,000 employees around the world are committed to excellence and delivering Tomorrow's Answers Today

Berger Paints Emirates Ltd LLC
Contact Details: Tel: 04 3391000, Fax: 04 3391322
E-mail:customerservice.uae@bergeronline.com
Contact Person: Mr.P.K Raj,
Marketing Manager

Green Horizon is our endeavour to create a greener future, and make sure that every step we take is in consonance with our mission and vision which lay down our responsibility and accountability towards the environment
National Paints
Contact Details: P.O Box 5822, Sharjah
Tel: 06 5340111, Fax: 06 5340222
E- mail: technic@national-paints.com
Contact Person: Gopal Kanojia,
Technical Manager

Through two of the biggest research and development labs and technical collaboration with international entities such as “Trans Ocean” from Holland, “Italtinto” from Italy, National Paints’ product line is constantly updated in accordance with the demands of each separate market involved. National Paints expanding product range and its strive for quality have granted it several international awards of recognition. Its reputation has given full support to undergo paint projects for hotels, airports, government corporations, hospitals, cultural institutions and other private and public sectors in various countries.

MAS Paints and Chemicals Industry
Contact Details: P.O Box 23085, Sajja Industrial area, Sharjah
Tel: 06 5311777, Fax: 06 5311330
E- mail: maspaints@emirates.net.ae
www.maspaints.com
Contact Person: Mr. Marwan Al Atrash,
Managing director

MAS Paints is widely known as pioneer in high performance wood coatings in the Middle East. Through its manufacturing units and showrooms, a wide range of decorative and finishing products are offered to end users, meeting all possible requirements from traditional craftsmen and joineries to the latest applications of UV curing and the low VOC lacquers (solvents and water-based). In addition to our traditional NC, PU and Acid Curing, our product range includes Dyes, Stains, Thinners, Polyester, Acrylics, Epoxy (for industrial application). Architectural paints and special effect decorative paints, where the most severe finishing applications from reputable hotes and palaces are met.

Al Gurg Fosroc LLC
Contact Details: P.O Box 657,Dubai
Tel: 04 - 2039699 Fax: 04 - 2859649
E-mail: agf@fosroc.com
www.fosroc.com
Contact Person: Mr. Manar Jamhour, General Manager

Fosroc is a world leader in the delivery of tailored Constructive Solutions for virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.
Fosroc has developed a substantial reputation for innovative products in concrete admixtures, concrete repairs, grouts and anchors, surface treatment, industrial flooring, joint and seals, waterproofing, adhesives and protective coatings.

NanoPhos SA (Nilgiris International FZCO)
Contact Details: P.O Box 54877, Dubai
Tel: +971 4 2998699, Fax: +971 4 2998698
E- mail: Krishnan@nilgirisfzco.com
Contact Person: Mr.A.N.Krishnan,
General Manager (Operations)

NanoPhos manufactures environment friendly, water based, energy saving, water repelling, self cleaning & green products to protect porous and non-porous substrates such as concrete, natural stone, marble, granite, ceramic tiles, gypsum, natural wood, metals and glass. Nilgiris International FZCO is an international trading & marketing organization established in the year 2008 and located in Dubai Airport Free Zone. We represent NanoPhos SA, Greece as their Distributors in U.A.E., Oman & India.
<table>
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<tr>
<th>304.04</th>
<th>Orientation of Glazed Facades</th>
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<td>Applicable Materials &amp; Systems</td>
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<td>1. Building Glass</td>
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<td>Applicable Standards / Regulations</td>
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<td>Availability of material</td>
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<td>1. Building Glass</td>
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<th>304.05</th>
<th>Hardscape</th>
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<td>Applicable Materials &amp; Systems</td>
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</table>
|        | 1. Vegetation  
|        | 2. Paving Material with High SRI  
|        | 3. Shading Material with High SRI |
|        | Applicable Standards / Regulations |
|        | Availability of material |
|        | 1. Vegetation |
|        | 2. Paving Material with High SRI |
Hussain Mohd. Abbas Block factory
Contact Details: P.O Box 931, Dubai
Tel: 04 – 3472214/3472349/3473536
Fax:04– 3472992
E mail: hablock@emirates.net.ae
www.hablocks.com

Contact Person: Mr. Sathish M.Kumar, General Manager

Hussain Mohd. Abbas block factory is a local concrete block manufacturing company having an ISO:9001:2008, which started its operation in the year 1976. The management is run by professional and experts in the field of concrete industry and assuring high quality products. The company is manufacturing and trading concrete block and paving tiles.

Apex Concrete Block Factory LLC.
Contact Details: P.O Box 53370, Dubai
Tel: 04 - 3470833 Fax: 04– 3470822
E mail: apex@apexgulf.com
www.apex.com

Contact Person: Mr. Narendra Reddy, Marketing Manager

Apex is the first company to introduce thermal insulated blocks for reducing the consumption of energy buildings and to control noise sources.

Delmon Autoclaved Aerated Concrete Factory.
Contact Details: P.O Box # 48308, Dubai
Tel: 04 - 8842280 Fax: 04– 8842281
E mail: delmonfa@eim.ae
www.delmonaacfactory.com

Contact Person: Eng. Mustafa Taha, Sales Manager

Delmon AAC Factory (Dubai) is the sister concern of Al Jazeera, Abu Dhabi - the pioneer of AAC products in UAE. Delmon, started production 2006, was second of its kind in UAE. It has largest mass production capacity and is using very advanced and automated production process to bring very high quality products. Its products have been approved by all the Municipalities of UAE, all the major developers, consultants etc. It has thousands of projects from villas–high rise towers to their credit.

Al Jazeera Factory for Const. Materials
Contact Details: P.O Box # 9081, Abu Dhabi
Tel: 02 - 5822768 Fax: 02– 5822353
E mail: jaziraac@eim.ae
www.aljazeerafactory.com

Contact Person: Eng. Mustafa Taha, Sales Manager

Al Jazeera - the pioneer of AAC products in UAE – started its facility in 1990. A member of Al Jazeera Group of Industries, its an ISO 9001:2008 certified manufacturer and have obtained first Technical Approval from DM in 2003. Its products have been approved by all the Municipalities of UAE, Ministry of Civil Defence, Dept. works and almost all of govt. and non-govt. bodies, all the major developers, consultants etc. It has thousands of projects from villas–high rise towers to their credit and most of landmark projects ever built in UAE are off their blocks.
3. Shading Material with High SRI

Applicable Materials & Systems

1. Shading Material with High SRI

Applicable Standards / Regulations


Availability of material

1. Shading Material with High SRI
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<td>Applicable Standards / Regulations</td>
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<tr>
<td></td>
<td>ASTM International Technical Committee – 262 D – 34</td>
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<td></td>
<td>Dubai Municipality Local Order No. 61 / 1999</td>
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<tr>
<td></td>
<td>Dubai Municipality Technical Guideline No. – 12, 26, 29, 44, 48, 50, 53, 56</td>
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<td>Dubai Municipality Building Dept. Circular – 77, 93, 89, 108, 117, 139, 154, 158, 161</td>
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<th>Chapter 6: Environmental Impact Assessment</th>
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<td>306.01</td>
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<td>Dubai Municipality Technical Guideline No. 4 and 53</td>
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<td>401.01</td>
<td>Minimum Ventilation requirements for Adequate Indoor Air Quality</td>
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<td>Applicable Materials &amp; Systems</td>
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<td>Ventilation products &amp; systems</td>
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<td>Applicable Standards / Regulations</td>
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<th>401.02</th>
<th>Air Quality During Construction, Renovation or Decoration</th>
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<td>1. Air Filters</td>
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<td></td>
<td>Applicable Standards / Regulations</td>
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<td></td>
<td>ASHRAE 52.2 - 2007</td>
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<td></td>
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<td>1. Air Filters</td>
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<th>401.03</th>
<th>Air Inlets and Exhausts</th>
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<tbody>
<tr>
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<td>Applicable Materials &amp; Systems</td>
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<tr>
<td>1. Air exhaust system</td>
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<td></td>
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<tr>
<td><strong>Applicable Standards / Regulations</strong></td>
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<td>ASHRAE 62 – 2007, SMACNOT APPLICABLE 1035 – HVAC Duct Construction Standards</td>
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<th>1. Air exhaust system</th>
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<td><strong>Availability of material</strong></td>
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<td>1. Air exhaust system</td>
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<td><strong>Applicable Materials &amp; Systems</strong></td>
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<td>1. Air extraction System</td>
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<td><strong>Applicable Standards / Regulations</strong></td>
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<td>Dubai Municipality Technical Guideline No. 57</td>
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<td>ASHRAE 62.1 – 2007</td>
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<td><strong>Availability of material</strong></td>
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<td>1. Windows</td>
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<tr>
<td><strong>Applicable Standards / Regulations</strong></td>
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### Availability of material

#### 401.06 Indoor Air Quality Compliance – New Buildings

**Applicable Materials & Systems**

1. Ventilation products & systems

**Applicable Standards / Regulations**


**Availability of material**

#### 401.07 Indoor Air Quality Compliance – Existing Buildings

**Applicable Materials & Systems**

1. Ventilation products & systems

**Applicable Standards / Regulations**

Heating and Ventilating Contractors Association (HVCA) TR-19 guide to good practice


**Availability of material**

#### 401.08 Inspection and Cleaning of HVAC Equipment
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<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<th>Applicable Standards / Regulations</th>
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<td>HVAC equipments / system</td>
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<td><strong>ASTM D – 3762, ASTM F – 984, DM/DEWA Green Building Regulation.</strong></td>
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<td>401.10</td>
<td>Environmental Tobacco Smoke</td>
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<td><strong>Designated smoking area</strong></td>
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<td></td>
<td><strong>DM/DEWA Green Building Regulation.</strong></td>
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### 402 Chapter 2: Thermal Comfort

**402.01 Thermal Comfort**

**Applicable Materials & Systems**

1. HVAC products & systems.

**Applicable Standards / Regulations**

ASHRAE: 55

### 403 Chapter 3: Acoustic Comfort

**403.01 Acoustical Control**

**Applicable Materials & Systems**

1. Acoustic Insulation Materials

**Applicable Standards / Regulations**

BS – 8233: 1999
Building Regulation Approved Document E(R-2008)OK
Health Technical Memorandum 08 – 01 (U.K)
Building Bulletin 93 (U.K.)
### Availability of Material

#### 1. Acoustic Insulation Materials

**Kuwait Insulating Material Manufacturing Co. (KIMMCO)**  
Contact Details: P.O. Box 9207, Al Wasel Al Mamzar Bldg.,  
Al Wuheida Road,  
Al Mamzar, Dubai  
Tel: +971 4 2967660, Fax-04-2967550  
E-mail: mshariff@alghanim.com / shariff@kimco.ae  
www.kimmcoinsulations.com  
Contact Person: Mr. Munvar Shariff, Regional Sales Manager

Kuwait Insulating Material Manufacturing Co., (KIMMCO) is a market leading insulation solution provider in the Middle East, Africa, the Far East and other Asian countries. It manufactures and supplies customized and cost effective, reflective, acoustical and fire resistant insulation products as per International Standards.

**FUJAIRAH ROCKWOOL FACTORY**  
Contact Details: P.O Box 211, Fujairah  
Tel: +971 9 2222297  
Fax: +971 9 2222573  
E-mail: frf@emirates.net.ae  
www.rockwoolfujairah.ae  
Contact Person: Mr. J.M.Flores, Quality Management Representative

Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It begun with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.

**Exeed Glasswool LLC.**  
Contact Details:  
Industrial City of Abdu Dhabi [ICAD]  
P.O Box 34332, Abu Dhabi  
Tel: +971 2 5512453  
Fax: +971 2 5512451  
E–Mail: imallah@glasswool.ae  
www.exeed.ae  
Contact Person: Mr. Imad Mallah, Sales Manger

Exeed Glasswool factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exeed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.
Chapter 4: Hazardous Materials

404.01 Low Emitting Material: Paints and Coatings

Applicable Materials & Systems

1. Low VOC Paints and Coatings

Applicable Standards / Regulations

ASTM D – 5116
ISO – FDIS 11890 – 2
ASTM D 3930

Availability of material

1. Low VOC Paints and Coatings

Jotun Paints
Contact Details: Jotun UAE ltd. P.O.Box 3671, Al Quoz, Dubai.
Tel 04 3395000 Fax: 04 3380666
E mail: csd@jotundxb.ae
http://www.jotun.com/me

Contact Person: Mr. Wael Fahmy
Regional sales Manager

Founded in 1926 in Norway and established in the Middle East since 1974, Jotun - one of the world's leading paint manufacturers, contributes to the environment by developing and offering competitive, sustainable products and solutions. A truly single source solution for clients, consultants and contractors alike.
Energy Zone L.L.C.
Contact Details: P.O.Box # 62650, Dubai
Tel-04-2671622, Fax-04-2671633
E mail. energyzo@eim.ae
www.energyzonecoating.com
Contact Person: Eng. Claude Nasif, Managing Director


Caparol LLC.
Contact Details: Tel.04 - 3473538 Fax.04-3474256
E.mail: info@caparol.ae
www.caparol.ae
Contact Person: Mr.Ahmed El Bayaa, Regional Sales Manager

Products Offered: Paints, Concrete Coatings & Thermal Insulation

The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group’s headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.

AkzoNobel
Contact Details: P.O Box 290, Al Quoz, Dubai
Tel: +971 4 3472491, Fax: +971 4 3472339
E-mail: tenders.me@akzonobel.com
www.akzonobel.com
Contact Person: Mr. Simon Major, General Manager (M.E. Business Development)

AkzoNobel is the largest global paint and coatings company and a major producer of speciality chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Our portfolio includes well known brands such as Dulux, Sikkens, International and Eka. We are a Global Fortune 500 company and are consistently ranked as one of the leaders on the Dow Jones Sustainability index. With operations in more than 80 countries, our 55,000 employees around the world are committed to excellence and delivering Tomorrow’s Answers Today

Berger Paints Emirates Ltd LLC.
Contact Details: Tel: 04 3391000, Fax: 04 3391322
E-mail:customerservice.uae@bergeronline.com
Contact Person: Mr.P.K Raj, Marketing Manager

Green Horizon is our endeavour to create a greener future, and make sure that every step we take is in consonance with our mission and vision which lay down our responsibility and accountability towards the environment
National Paints
Contact Details: P.O Box 5822, Sharjah
Tel: 06 5340111, Fax: 06 5340222
E-mail: technic@national-paints.com
Contact Person: Gopal Kanojia,
Technical Manager

Through two of the biggest research and development labs and technical collaboration with international entities such as “Trans Ocean” from Holland, “Italtinto” from Italy, National Paints’ product line is constantly updated in accordance with the demands of each separate market involved. National Paints expanding product range and its strive for quality have granted it several international awards of recognition. Its reputation has given full support to undergo paint projects for hotels, airports, government corporations, hospitals, cultural institutions and other private and public sectors in various countries.

MAS Paints and Chemicals Industry
Contact Details: P.O Box 23085, Sajja Industrial area, Sharjah
Tel: 06 5311777, Fax: 06 5311330
E-mail: maspaints@emirates.net.ae
www.maspaints.com

Contact Person: Mr. Marwan Al Atrash,
Managing director

MAS Paints is widely known as pioneer in high performance wood coatings in the Middle East. Through its manufacturing units and showrooms, a wide range of decorative and finishing products are offered to end users, meeting all possible requirements from traditional craftsmen and joineries to the latest applications of UV curing and the low VOC lacquers (solvents and water-based). In addition to our traditional NC, PU and Acid Curing, our product range includes Dyes, Stains, Thinners, Polyester, Acrylics, Epoxy (for industrial application). Architectural paints and special effect decorative paints, where the moste severe finishing applications from reputable hotes and palaces are met.

Al Gurg Fosroc LLC
Contact Details: P.O Box 657,Dubai
Tel: 04 - 2039699 Fax: 04 - 2859649
E-mail: agf@fosroc.com
www.fosroc.com

Contact Person: Mr. Manar Jamhour, General Manager
Fosroc is a world leader in the delivery of tailored Constructive Solutions for virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.
Fosroc has developed a substantial reputation for innovative products in concrete admixtures, concrete repairs, grouts and anchors, surface treatment, industrial flooring, joint and seals, waterproofing, adhesives and protective coatings.

NanoPhos SA (Nilgiris International FZCO )
Contact Details: P.O Box 54877, Dubai
Tel: +971 4 2998699, Fax: +971 4 2998698
E-mail: Krishnan@nilgirisfzco.com

Contact Person: Mr.A.N.Krishnan,
General Manager (Operations)
NanoPhos manufactures environment friendly, water based, energy saving, water repelling, self cleaning & green products to protect porous and non-porous substrates such as concrete, natural stone, marble, granite, ceramic tiles, gypsum, natural wood, metals and glass. Nilgiris International FZCO is an international trading & marketing organization established in the year 2008 and located in Dubai Airport Free Zone. We represent NanoPhos SA, Greece as their Distributors in U.A.E., Oman & India.
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<tr>
<th>404.02</th>
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**Applicable Materials & Systems**

1. Low VOC Sealants  
2. Low VOC Adhesives

**Applicable Standards / Regulations**

- ASTM D – 5116  
- ASTM D – 3930  
- ISO-FDIS 11890-2

**Availability of material**

1. **Low VOC Sealants**

   **Falcon Chemicals**  
   Contact Details: P.O Box 2924, Dubai  
   Tel: 04 - 8801444  Fax: 04 - 8801717  
   E-mail: inquiry@falconchemicals.com  
   www.falconchemicals.com

   Contact Person: Mr. Qazi, Marketing Manager

   We offer a wide variety of products used in the construction industry. Our products have been used for more than 20 years in most of the prestigious projects all over the Middle East. The products for the construction industry are Tile Adhesives and Grouts, concrete repair mortars, specially formulated adhesives for marble, natural stones and polystyrene, bonding key coat, floor hardener, self leveling compound and Epoxy/polyurethane coating etc.

   **MAPEI (I.B.S. Innovative Building Solutions LLC.)**  
   Contact Details: Post Box # 73869, Dubai  
   Tel: 04 815 6666  Fax: 04 815 6655  
   E-mail: l.haboubi@ibs-mapei.ae  
   www.mapei.ae

   Contact Person: Mr. Laith Haboubi (Regional Director)

   Founded in Milan, Italy in 1937, Mapei is today the world leader in the production of adhesives and complementary products for the installation of all types of floor and wall coverings. The company is also specialized in other chemical products for building with distinctive product lines which range from waterproofers to special mortars, from concrete admixtures to products for the restoration of ancient buildings. MAPEI has 68 subsidiaries with 58 production facilities in operation spread across 27 countries in five continents. MAPEI’s UAE subsidiary, Innovative Building Solutions LLC was formed as part of its long-term commitment to the Middle East. The company commenced production in February 2009, at its 40,000 m2 facility at Dubai Investments Park.
Fosroc is a world leader in the delivery of tailored Constructive Solutions for virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.

Fosroc has developed a substantial reputation for innovative products in concrete admixtures, concrete repairs, grouts and anchors, surface treatment, industrial flooring, joint and seals, waterproofing, adhesives and protective coatings.

2. Low VOC Adhesives

Falcon Chemicals

We offer a wide variety of products used in the construction industry. Our products have been used for more than 20 years in most of the prestigious projects all over the Middle East. The products for the construction industry are Tile Adhesives and Grouts, concrete repair mortars, specially formulated adhesives for marble, natural stones and polystyrene, bonding key coat, floor hardener, self leveling compound and Epoxy/polyurethane coating etc.

MAPEI (I.B.S. Innovative Building Solutions LLC.)

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404.03  Carpet Systems

Applicable Materials & Systems

1. Carpet

Applicable Standards / Regulations

Dubai Municipality – DCL Certification

Availability of material

1. Carpet

405  Chapter 5: Day lighting and Visual Comfort

405.01  Provision of natural Daylight

Applicable Materials & Systems

Building Glass

Applicable Standards / Regulations

Dubai Municipality Regulations
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| **Applicable Standards / Regulations** | ASTM D - 5952 
Dubai Municipality Guidelines |
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Section Five
Resource Effectiveness:
Energy
### Chapter 1: Conservation and Efficiency: Building Fabric

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<td>ASTM C- 578</td>
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**ISOFOAM ENGINEERING PRODUCTS LLC.**

**Contact Details:**
- P.O. Box- 35220 Dubai
- Tel: + 971 4 2861082
- Fax: +971 4 2860821
- e-mail: isofoam@emirates.net.ae
- www.isofoamuae.com

**Contact Person:** Mr. Saad Kreidieh, General manager

ISOFOAM, a leader in building materials and energy efficiency solutions manufacturing zero ozone depleting ISOBOARD green® extruded polystyrene (XPS) rigid foam insulation and hanex® Acrylic Solid Surface to meet the requirements of green building.

ISOFOAM is ISO 9001: 2008 certified from BUREAU VERITAS for manufacturing and supplying – Certificate No. IND10.7766. ISOFOAM is DCL certified from Dubai Municipality licensing agreement no. CL05020002. The outstanding technology and quality have propelled ISOFOAM a leader in the field of building industry. Its products are regularly specified by leading International consultants and architects in GCC market & Middle East.
Energy Zone L.L.C.
Contact Details: P.O.Box # 62650, Dubai
Tel-04-2671622, Fax-04-2671633
E mail. energyzo@eim.ae
www.energyzonecoating.com
Contact Person: Eng. Claude Nasif,
Managing Director

Kuwait Insulating Material Manufacturing Co. (KIMMCO)
Contact Details: P. O. Box 9207, Al Wasel Al Mamzar Bldg.,
Al Wuheida Road,
Al Mamzar, Dubai
Tel: +9714 2967660, Fax-04-2967550
E-mail: mshariff@alghanim.com/shariff@kimco.ae
www.kimmcoinsulations.com
Contact Person: Mr. Munvar Shariff, Regional Sales Manager

Styrene Insulation Industry
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Fax: +971 2 5511570,
e-mail: styrene@eim.ae
www.styrene-uae.com
Contact Person: Mr. Sukesh Raghavan, Chief Accountant

ROOF CARE CO.L.L.C,
Contact Details: P.O Box- 1813, U.A.Q.
Tel: +971 6 7670666, Fax+-971 6 7670198,
E-mail: roofcare@emirates.net.ae,
www.roof-care.com
Contact Person: Saji P. Varghese (+971 50 9387403)
The professional team of ROOF-CARE offers two comprehensive systems called: “COMBO ROOF SYSTEM-
for roof water proofing and heat insulation” and “Henkel Ceresit External Insulation Finishing System
for External Walls” with Dubai municipality’s approval and manufacturer’s performance guarantee.

Green, Energy Saving & Energy Star Approved Coatings & Paints. Zero VOC & Low VOC Interior and Exterior Paints Including Waterproofing, Insulating, Protective, Decorative, Soundproofing, Industrial, Anti-Corrosion...
Coatings for Roofs, Walls, Floors, Tanks & More. Saving Energy while Preserving Environment & Atmosphere
Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It begun with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.

Exeed Glasswool Factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exeed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.

The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group’s headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.
Mammut Building Systems Fzc
Contact Details: P.O Box-41668, HFZ, Sharjah  
Tel: +971 4 8012921, Fax: +971 4 8012223  
E-mail: satya.prakash@mammut.ae  
www.mammutsteel.ae

Contact Person: Mr. SatyaPrakash, QA/QC Dept

Mammut Building Systems (MBS), a subsidiary of Emaar Industries and Investments an associated company of Emaar Group is one of the largest manufacturers of Pre-Engineered Steel Buildings (PEB’s) and Polyurethane Injected Sandwich Panels in the world. MBS is specialized in the design, manufacture and supply of PEB using the best engineering softwares and most advanced production machineries in the PEB industry.

FOAMGLAS® Building
PITTSBURGH CORNING Europe (Rep. Office - Middle East)
Contact Details: Arenco Tower (Media City),  
P.O. Box 213345, Dubai - UAE  
Tel. +971 4 434 71 40, Fax +971 4 432 7109  
Email: info@foamglas.ae  
www.foamglas.ae

Contact Person: Marco Thomas Vincenz, General Manager

FOAMGLAS® comes out outstandingly well in this overall assessment. Long service life, safety, environmental compatibility and economic feasibility make FOAMGLAS® the preferred insulating material for the whole building envelope.

NATIONAL POLYSTYRENE PACKAGING FACTORY L.L.C.
Contact Details: P.O. Box-79970, Jabel Ali Industrial Area # 3  
Dubai  
Tel: +971 4 8802005  
Fax: +971 4 8802006  
E-mail: napolpak@emirates.net.ae  
www.nppfdubai.com

Contact Person: Mr. Saeed Al Saghir, Managing Director

National Polystyrene Packaging Factory (NPPF) manufactures and market all types of Polystyrene Products which are related to Construction, Thermal Insulation, Geofoam, Packaging, Architectural works and Decorations, that will suit Customer’s requirement. NPPF are serving U.A.E. & G.C.C. market since 1994 with excellent success.

GULF COOL THERM FACTORY LIMITED
Contact Details: P.O Box 22069, Sharjah
Tel: +971 6 5439600
Fax: +971 6 5439611
E-mail: gulfool@emirates.net.ae
www.gulfcooltherm.com

Contact Person: Mr. Shaji, Marketing Manager

Gulf Cool Therm Factory Limited is an ISO 9001 Certified Company with Quality System certified by UKAS of United Kingdom. Gulf Cool Therm Factory Limited, as a manufacturers and suppliers of high quality: Polyisocyanurate, Polyurethane and Phenolic Foam Pipe, Duct, Wall, Roof, Tank and Vessel Insulations. Pre-insulated Pipes and Fittings for Industrial and District Cooling Applications. Phenolic Foam or PIR Pre-insulated Duct Insulation panel Polyurethane Spray applied Foam for Heat Insulation and Water Proofing Systems. With best CNC machineries in the field and quality material available, with highly qualified technical and commercial staff, we are confident that our product will comply with all international standard and definitely will meet your requirements. In order to facilitate our client with best service with respect to quality and prompt delivery, respective elements of production and marketing were provided and enhanced under a tight quality control.

2. Glazed Elements (Glass)
### Applicable Materials & Systems

1. Thermal Insulation Materials

### Applicable Standards / Regulations

Dubai Municipality Admin. Resolution 66 / 2003, CIBSE Environmental design guide  
ASHRAE 90.1

### Availability of material

1. Thermal Insulation Materials

#### ISOFOAM ENGINEERING PRODUCTS LLC.

Contact Details:  P.O. Box- 35220 Dubai  
Tel:  + 971 4 2861082  
Fax: +971 4 2860821  
e-mail: isofoam@emirates.net.ae  
www.isofoamuae.com

Contact Person:  Mr. Saad Kreidieh, General manager

ISOFOAM, a leader in building materials and energy efficiency solutions manufacturing zero ozone depleting ISOBOARD green® extruded polystyrene (XPS) rigid foam insulation and hanex® Acrylic Solid Surface to meet the requirements of green building.  
ISOFOAM is ISO 9001: 2008 certified from BUREAU VERITAS for manufacturing and supplying – Certificate No. IND10.7766. ISOFOAM is DCL certified from Dubai Municipality licensing agreement no. CL05020002. The outstanding technology and quality have propelled ISOFOAM a leader in the field of building industry. Its products are regularly specified by leading International consultants and architects in GCC market & Middle East.

#### Energy Zone L.L.C.

Contact Details:  P.O.Box # 62650, Dubai  
Tel-04-2671622, Fax-04-2671633  
E mail. energyzo@eim.ae  
www.energyzonecoating.com

Contact Person:  Eng. Claude Nasif, Managing Director

Green, Energy Saving & Energy Star Approved Coatings & Paints. Zero VOC & Low VOC Interior and Exterior Paints Including Waterproofing, Insulating, Protective, Decorative, Soundproofing, Industrial, Anti-Corrosion...  
Coatings for Roofs, Walls, Floors, Tanks & More. Saving Energy while Preserving Environment & Atmosphere
Kuwait Insulating Material Manufacturing Co. (KIMMCO)
Contact Details: P.O. Box 9207, Al Wasel Al Mamzar Bldg. ,
Al Wuheid Road, Al Mamzar, Dubai
Tel: +9714 2967660,Fax-04-2967550
E-mail: mshariff@alghanim.com / shariff@kimco.ae
www.kimmcoinsulations.com
Contact Person: Mr. Munvar Shariff, Regional Sales Manager

Kuwait Insulating Material Manufacturing Co., (KIMMCO) is a market leading insulation solution provider in the Middle East, Africa, the Far East and other Asian countries. It manufactures and supplies customized and cost effective, reflective, acoustical and fire resistant insulation products as per International Standards.

Styrene Insulation Industry
Contact Details: P.O Box-9459, Abu Dhabi
Tel: +971 2 5511166 ,
Fax: +971 2 5511570,
e-mail: styrene@eim.ae
www.styrene-uae.com
Contact Person: Mr. Sukesh Raghavan, Chief Accountant

Styrene Insulation Industry (SII) started its Expanded Polystyrene (EPS) Injection and Block Moulded Polystyrene products under the brand name Insolite in 1997. Our factory is equipped with the most modern equipments, manned by a team of technically trained and skilled work force, who continuously strive to achieve the highest standard of product quality.

ROOF CARE CO.L.L.C,
Contact Details: P.O Box- 1813, U.A.Q.
Tel: +971 6 7670666, Fax:+971 6 7670198,
E-mail: roofcare@emirates.net.ae,
www.roof-care.com
Contact Person: Saji P. Varghese (+971 50 9387403)

The professional team of ROOF-CARE offers two comprehensive systems called: “COMBO ROOF SYSTEM- for roof water proofing and heat insulation” and “Henkel Ceresit External Insulation Finishing System for External Walls” with Dubai municipality’s approval and manufacturer’s performance guarantee.

FUJAIRAH ROCKWOOL FACTORY
Contact Details: P.O Box 211, Fujairah
Tel: +971 9 2222297
Fax: +971 9 2222573
E-mail: frf@emirates.net.ae
www.rockwoolfujairah.ae
Contact Person: Mr. J.M.Flores, Quality Management Representative

Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It begun with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.
Exceed Glasswool LLC.
Contact Details:
Industrial City of Abu Dhabi [ICAD]
P.O Box 34332, Abu Dhabi
Tel: +971 2 5512453
Fax: +971 2 5512451
E-Mail: imallah@glasswool.ae
www.exeed.ae

Contact Person: Mr. Imad Mallah, Sales Manager
Exceed Glasswool factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exceed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.

Caparol LLC.
Contact Details: Tel.04 - 3473538 Fax.04-3474256
E.mail: info@caparol.ae
www.caparol.ae

Contact Person: Mr.Ahmed El Bayaa,
Regional Sales Manager
Products Offered: Paints, Concrete Coatings & Thermal Insulation
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Contact Person: Mr. SatyaPrakash, QA/QC Dept
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PITTSBURGH CORNING Europe (Rep. Office - Middle East)
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P.O. Box 213345, Dubai - UAE
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Email: info@foamglas.ae
www.foamglas.ae

Contact Person:  Marco Thomas Vincenz, General Manager

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Dubai
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Fax: +971 4 8802006
E-mail: napolpak@emirates.net.ae
www.nppfdubai.com

Contact Person:  Mr. Saeed Al Saghir, Managing Director

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National Polystyrene Packaging Factory is certified and Approved by prestigious private and public Certifying Institution, they are ISO 9001:2008 by M/s Lloyd’s Register Quality Assurance, DCL Conformity Mark by M/s Dubai Municipality, Emirates Quality Mark by M/s Emirates Authority for Standardization & Metrology (ESMA), Emirates Green Building Council Corporate Membership by M/s Emirates Green Building Council

ELECTRONIC & ENGINEERING INDUSTRIES CO. LLC
Contact Details:  P.O. Box-5088, Sharjah
Tel: +971 6 5332114
Fax: +971 6 5332011
E-mail: eeishj@emirates.net.ae
www.eei-ae.com

Contact Person:  Mr. M.J.Joseph

Electronic & Engineering Industries Co. LLC. was established in the year 1978 in Sharjah, U.A.E to manufacture Expanded Polystyrene Products. As a further expansion it was started its Extruded Polystyrene Factory (ROOFMASTER XPS) in Mussafah, Abu Dhabi during 2003
Hapri Insulation Materials Manufacturing
Contact Details: Tel. +971-4-3405466  Fax. +971-4-3405477
Post Box # 37875, Dubai, U.A.E.
E.mail: hapri@emirates.net.ae
www.haprimiddleeast.com

Contact Person: Mr. Niaz,
Marketing Manager

Type: Polyisocyanurate Insulation Board (Wall, Roof, Ceiling, Floor, Cladding)
Hapri Insulation Materials Manufacturing is one of the leading Manufacturer and Exporter of Polyisocyanurate Foam Board for Wall Insulation (External/Internal), Roof, Ceiling (Direct Paint Insulation available), Cladding, Cold Store, Pre-Insulated Duct Panels and Fabricated Ducts. Polyisocyanurate Foam Boards are available with different Laminations such as Fiber Glass and reflective Aluminum Foil depending upon the Applications.

We are having the honor of providing International quality products with best competitive prices and Minimum Delivery Time locally in UAE, Gulf Counties, Africa and to the sub continent.

GULF COOL THERM FACTORY LIMITED
Contact Details: P.O Box 22069, Sharjah
Tel: +971 6 5439600
Fax: +971 6 5439611
E-mail: gulfcool@emirates.net.ae
www.gulfcooltherm.com

Contact Person: Mr. Shaji, Marketing Manager

Gulf Cool Therm Factory Limited is an ISO 9001 Certified Company with Quality System certified by UKAS of United Kingdom. Gulf Cool Therm Factory Limited, as a manufacturers and suppliers of high quality: Polyisocyanurate, Polyurethane and Phenolic Foam Pipe, Duct, Wall, Roof, Tank and Vessel Insulations. Pre-insulated Pipes and Fittings for Industrial and District Cooling Applications. Phenolic Foam or PIR Pre-insulated Duct Insulation panel Polyurethane Spray applied Foam for Heat Insulation and Water Proofing Systems. With best CNC machineries in the field and quality material available, with highly qualified technical and commercial staff, we are confident that our product will comply with all international standard and definitely will meet your requirements. In order to facilitate our client with best service with respect to quality and prompt delivery, respective elements of production and marketing were provided and enhanced under a tight quality control.

501.03 Air Conditioning Design Parameters

Applicable Materials & Systems

1. HVAC Equipments.

Applicable Standards / Regulations

ASHRAE – Hand book

Availability of material
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tr>
<td>1.</td>
<td>HVAC Equipments</td>
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<td>501.04</td>
<td>Air Loss from Entrance and Exit</td>
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<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
<td>Barrier products and systems to prevent air condition from lost.</td>
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<td><strong>Applicable Standards / Regulations</strong></td>
<td>Dubai Municipality Regulation</td>
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<td>501.05</td>
<td>Air Leakage</td>
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| **Applicable Standards / Regulations** | ASTM E – 783  
ASTM E- 1424 |
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| 502 | Chapter 2: Conservation and Efficiency: Building Systems |
| 502.01 | Energy Efficiency – HVAC Equipment and Systems |</p>
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<tr>
<th>502.02 Demand Controlled Ventilation</th>
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<td><strong>Applicable Materials &amp; Systems</strong></td>
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<td>Demand controlled ventilation system using CO₂ sensors</td>
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<td>Demand controlled ventilation system using CO₂ sensors</td>
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<td>Not Applicable</td>
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</table>

**502.03 Elevators and Escalators**
1. Energy saving escalators and elevators  
2. Elevator/Escalator Control System

### Applicable Standards / Regulations

- ASTM F-916, DM/DEWA Green Building Regulation.

### Availability of material

1. Energy saving escalators and elevators  
2. Elevator / Escalator Control system

**Schindler Pars International Ltd.**  
Contact Details:  
P.O. Box 115117, Dubai  
Tel: +971 4 3819191, Fax: +971 4 3490561  
Call Center 800(724463537)  
E mail: [infouae@ae.schindler.com](mailto:infouae@ae.schindler.com)  
[www.schindler.com](http://www.schindler.com)

Contact Person:  
Mr. Neville Lobo, Managing Director

Fully owned subsidiary of Schindler Holding, the Company is licensed to conduct the strategic growth targets of Schindler in key markets like Dubai, Abu Dhabi, Bahrain, Kuwait, Qatar and Oman, with the overall objectives to: sell, install and maintain Schindler elevators and escalators in the UAE; act as a Gulf Hub assisting distributors in commercial / technical activities, providing support for negotiation of key projects; establish a close working relation with consultants, architects, general contractors, developers and owners providing planning & technical support with vertical transportation solution for all types of buildings; create a perceptible presence of Schindler to customers and enhance the Schindler brand recognition in the market place.

**502.04**  
Lighting Power Density - Interior

### Applicable Materials & Systems

1. Internal Lighting

### Applicable Standards / Regulations

- ASHRAE 90.1-2007  
- DEWA Regulations

### Availability of material

1. Internal Lighting
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<th>502.05</th>
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<td>Applicable Materials &amp; Systems</td>
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<td>Applicable Standards / Regulations</td>
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<td>DEWA Regulations</td>
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<td>ASHRAE 90 -1</td>
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<td>1. External Lighting</td>
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<td>Applicable Materials &amp; Systems</td>
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<td>1. Lighting Control System</td>
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<td>Applicable Standards / Regulations</td>
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<td></td>
<td>ASHRAE – 90-1</td>
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<td>UK Building regulation L2A</td>
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<td>Availability of material</td>
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<tr>
<td></td>
<td>1. Lighting Control System</td>
</tr>
</tbody>
</table>

| 502.07 | Electronic Ballasts |
### Applicable Materials & Systems

1. Electronic Ballasts

### Applicable Standards / Regulations

DEWA / DEWA Regulations  
BSEN – 60928  
ANSI – 682.11 – C

### Availability of material

#### 502.08 Control Systems for Heating, Ventilation and Air Conditioning (HVAC) Systems

**Applicable Materials & Systems**

1. Control System for HVAC System.

**Applicable Standards / Regulations**

ASHRAE 90-1-2007  
Dubai Municipality/DEWA Regulations

**Availability of material**

1. Control System for HVAC System

#### 502.09 Control Systems for Hotel Rooms

**Applicable Materials & Systems**

1. Light Control System  
2. HVAC Control System

**Applicable Standards / Regulations**
### Availability of material

1. **Light Control System**

2. **HVAC Control System**

### Exhaust Air Energy Recovery Systems

#### Applicable Materials & Systems

1. Energy Recovery System

#### Applicable Standards / Regulations

DM/DEWA Green Building Regulation.

#### Availability of material

1. Energy Recovery System

### Pipe and Duct Insulation

#### Applicable Materials & Systems

1. Duct Insulation Materials

#### Applicable Standards / Regulations
Availability of material

1. Duct Insulation Materials

Kuwait Insulating Material Manufacturing Co. (KIMMCO)
Contact Details: P.O. Box 9207, Al Wasel Al Mamzar Bldg., Al Wuheida Road, Al Mamzar, Dubai
Tel: +971 4 2967660,Fax-04-2967550
E-mail: mshariff@alghanim.com / shariff@kimco.ae
www.kimmcoinsulations.com
Contact Person: Mr. Munvar Shariff, Regional Sales Manager

Kuwait Insulating Material Manufacturing Co., (KIMMCO) is a market leading insulation solution provider in the Middle East, Africa, the Far East and other Asian countries. It manufactures and supplies customized and cost effective, reflective, acoustical and fire resistant insulation products as per International Standards.

FUJAIRAH ROCKWOOL FACTORY
Contact Details: P.O Box 211, Fujairah
Tel: +971 9 2222297
Fax: +971 9 2222573
E-mail: frf@emirates.net.ae
www.rockwoolfujairah.ae
Contact Person: Mr. J.M.Flores, Quality Management Representative

Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It begun with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.

Exceed Glasswool LLC.
Contact Details: Industrial City of Abdu Dhabi [ICAD]
P.O Box 34332, Abu Dhabi
Tel: +971 2 5512453
Fax: +971 2 5512451
E-Mail: imallah@glasswool.ae
www.exeed.ae
Contact Person: Mr. Imad Mallah, Sales Manager

Exeed Glasswool factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exeed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.
<table>
<thead>
<tr>
<th>502.13</th>
<th>Ductwork Air Leakage</th>
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<tr>
<td>Applicable Materials &amp; Systems</td>
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<th>502.14</th>
<th>Maintenance of Mechanical Systems</th>
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<tr>
<td>Applicable Materials &amp; Systems</td>
<td>Air duct pressure testing equipment / system.</td>
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| Applicable Standards / Regulations | ASHRAE 62 – 1  
  Dubai Municipality Regulations |
### Chapter 3: Commissioning and Management

#### 503.01 Commissioning of Building Services – New Buildings

**Applicable Materials & Systems**

Not Applicable

**Applicable Standards / Regulations**

- CIBSE Commissioning Code
- Dubai Municipality Code

**Availability of material**

Not Applicable

#### 503.02 Re-Commissioning of Building Services – Existing Buildings

**Applicable Materials & Systems**

Not Applicable

**Applicable Standards / Regulations**

- CIBSE Commissioning Code
- Dubai Municipality Code

**Availability of material**

Not Applicable

#### 503.03 Electricity Metering
<table>
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<tr>
<th><strong>Applicable Materials &amp; Systems</strong></th>
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<td>1. Electricity Meter</td>
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<tr>
<th><strong>Applicable Standards / Regulations</strong></th>
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<td>DEWA Specification</td>
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<td>CIBSE TM - 22</td>
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<td>1. Electricity Meter</td>
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<tr>
<th>503.04 <strong>Air Conditioning Metering</strong></th>
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<tbody>
<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
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<tr>
<td>1. Air conditioning meter</td>
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<tr>
<th><strong>Applicable Standards / Regulations</strong></th>
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<tr>
<td>DEWA Specification</td>
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<th><strong>Availability of material</strong></th>
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<tr>
<td>1. Electricity Meter</td>
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<thead>
<tr>
<th>503.05 <strong>Central Control and Monitoring System</strong></th>
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<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
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<tr>
<td>1. Control and Monitoring System for HVAC</td>
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</table>

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<thead>
<tr>
<th><strong>Applicable Standards / Regulations</strong></th>
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</thead>
</table>
### Chapter 4: Onsite Systems: Generation & Renewable Energy

#### 504.01 On-Site Renewable Energy – Small to Medium Scale Embedded Generators

**Applicable Materials & Systems**

1. Generators

**Applicable Standards / Regulations**

- DEWA Regulations
- BS - 7671

---

#### 504.02 Outdoor Lighting

**Applicable Materials & Systems**

1. Outdoor lighting system based on renewable energy system.

**Applicable Standards / Regulations**

- ASHRAE – 90.1
- Dubai Municipality / DEWA Regulations

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<table>
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<tr>
<th>504.03 On-Site Renewable Energy – Solar Water Heating System</th>
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<tr>
<td><strong>Applicable Materials &amp; Systems</strong></td>
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<td>1. Solar Water Heater</td>
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<td>Dubai Municipality / DEWA Regulations</td>
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<td><strong>Availability of material</strong></td>
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<td>1. Solar Water Heater</td>
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</table>
Section Six

Resource Effectiveness: Water
**Chapter 1: Conservation and Efficiency**

### 601.01 Water Efficient Fittings

**Applicable Materials & Systems**

1. Water Conserving Fixtures
2. Dual Flush

**Applicable Standards / Regulations**

EN 817 – Sanitary Tap ware
DM / DEWA Regulation

**Availability of material**

1. Water Conserving Fixtures
   - Baenninger Trading LLC.
   - Contact Details: P.O. Box-474150, Dubai
   - Tel: 04 –8857955, Fax: 04 - 8857765
   - E mail: brme@eim.ae
   - www.baenninger.de
   - Contact Person: Christopher Stark, Managing Director

Baenninger Trading supplies high quality and ecological pipes and fittings made of various plastics. Our main fields of application are gas and water supply as well as drainage and sewage.

### 601.02 Condensate Drainage

**Applicable Materials & Systems**

- Pressure pipes and fittings made of PP-R; HDPE 100; UPVC in various dimensions
- Drainage pipe systems underground UPVC and PP (KG2000)
- Indoor waste water pipe systems HT-PP and Skolan db (Soundproof)

Baenninger Trading supplies high quality and ecological pipes and fittings made of various plastics. Our main fields of application are gas and water supply as well as drainage and sewage.
<table>
<thead>
<tr>
<th>601.03</th>
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<td>1. Water Efficient Irrigation System</td>
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<tr>
<td>602</td>
<td>Chapter 2: Commissioning and Management</td>
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<td>602.01</td>
<td>Water Metering</td>
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**Applicable Materials & Systems**

1. Water Meter

**Applicable Standards / Regulations**

DEWA Specification

**Availability of material**

1. Water meter

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<th>603</th>
<th>Chapter 3: Onsite Systems: Recovery and Treatment</th>
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</thead>
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<tr>
<td>603.01</td>
<td>Water Reuse</td>
</tr>
</tbody>
</table>

**Applicable Materials & Systems**

1. Dual Plumbing (Potable & Non Potable Water)

**Applicable Standards / Regulations**

Dubai Municipality Technical Guide 62
Dubai Municipality Regulations
DEWA Specification

**Availability of material**

1. Dual Plumbing (Potable & Non Potable Water)
Baenninger Trading LLC.
Contact Details: P.O. Box-474150, Dubai
Tel: 04 –8857955, Fax: 04 - 8857765
E mail: brme@eim.ae
www.baenninger.de

Contact Person: Christopher Stark, Managing Director

Materials we supply:
- Pressure pipes and fittings made of PP-R; HDPE 100; UPVC in various dimensions
- Drainage pipe systems underground UPVC and PP (KG2000)
- Indoor waste water pipe systems HT-PP and Skolan db (Soundproof)

Baenninger Trading supplies high quality and ecological pipes and fittings made of various plastics. Our main fields of application are gas and water supply as well as drainage and sewage.

<table>
<thead>
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<th>603.02</th>
<th>Water Consumption for Heat Rejection Including Cooling Towers</th>
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<td>1. Water meter</td>
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Section Seven

Resource Effectiveness: Materials and Waste
Chapter 1: Materials and Resources

Thermal and Acoustical Insulation Materials

Applicable Materials & Systems

1. Thermal Insulation Materials
2. Acoustic Insulation

Applicable Standards / Regulations

ASTM C – 578, c- 612
BSEN – 13162 to 13165
Dubai Municipality Specification
Dubai Municipality Ad. Regulation 66/2003

Availability of material

1. Thermal Insulation Materials

ISOFOAM ENGINEERING PRODUCTS LLC.

Contact Details:  P.O. Box- 35220 Dubai
Tel:  + 971 4 2861082
Fax:  +971 4 2860821
e-mail:  isofoam@emirates.net.ae
www.isofoamuae.com

Contact Person:  Mr. Saad Kreidieh,  General manager

ISOFOAM, a leader in building materials and energy efficiency solutions manufacturing zero ozone depleting ISOBOARD green® extruded polystyrene (XPS) rigid foam insulation and hanex® Acrylic Solid Surface to meet the requirements of green building.

ISOFOAM is ISO 9001: 2008 certified from BUREAU VERITAS for manufacturing and supplying – Certificate No. IND10.7766. ISOFOAM is DCL certified from Dubai Municipality licensing agreement no. CL05020002. The outstanding technology and quality have propelled ISOFOAM a leader in the field of building industry. Its products are regularly specified by leading International consultants and architects in GCC market & Middle East.
Green, Energy Saving & Energy Star Approved Coatings & Paints. Zero VOC & Low VOC Interior and Exterior Paints Including Waterproofing, Insulating, Protective, Decorative, Soundproofing, Industrial, Anti-Corrosion...
Coatings for Roofs, Walls, Floors, Tanks & More. Saving Energy while Preserving Environment & Atmosphere

Kuwait Insulating Material Manufacturing Co. (KIMMCO)

Kuwait Insulating Material Manufacturing Co., (KIMMCO) is a market leading insulation solution provider in the Middle East, Africa, the Far East and other Asian countries. It manufactures and supplies customized and cost effective, reflective, acoustical and fire resistant insulation products as per International Standards.

Styrene Insulation Industry

Styrene Insulation Industry (SII) started its Expanded Polystyrene (EPS) Injection and Block Moulded Polystyrene products under the brand name Insolite in 1997. Our factory is equipped with the most modern equipments, manned by a team of technically trained and skilled work force, who continuously strive to achieve the highest standard of product quality.

ROOF CARE CO.L.L.C,

The professional team of ROOF-CARE offers two comprehensive systems called: “COMBO ROOF SYSTEM- for roof water proofing and heat insulation” and “Henkel Ceresit_ External Insulation Finishing System for External Walls” with Dubai municipality’s approval and manufacturer’s performance guarantee.
Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It began with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.

**Exeed Glasswool LLC.**
Contact Details:  
Industrial City of Abu Dhabi [ICAD]  
P.O Box 34332, Abu Dhabi  
Tel: +971 2 5512453  
Fax: +971 2 5512451  
E–Mail: imallah@glasswool.ae  
www.exeed.ae

Contact Person: Mr. Imad Mallah, Sales Manager

Exeed Glasswool factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exeed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.

**Caparol LLC.**
Contact Details: Tel.04 - 3473538 Fax.04-3474256  
E.mail: info@caparol.ae  
www.caparol.ae

Contact Person: Mr.Ahmed El Bayaa,  
Regional Sales Manager

Products Offered: Paints, Concrete Coatings & Thermal Insulation

The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group’s headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.
Mammut Building Systems Fzco
Contact Details: P.O Box-41668, HFZ, Sharjah
Tel: +971 4 8012921, Fax: +971 4 8012223
E-mail: satya.prakash@mammut.ae
www.mammutsteel.ae

Contact Person: Mr. Satya Prakash, QA/QC Dept

Mammut Building Systems (MBS), a subsidiary of Emaar Industries and Investments and an associated company of Emaar Group is one of the largest manufacturers of Pre-Engineered Steel Buildings (PEB's) and Polyurethane Injected Sandwich Panels in the world. MBS is specialized in the design, manufacture and supply of PEB using the best engineering softwares and most advanced production machineries in the PEB industry.

FOAMGLAS® Building
PITTSBURGH CORNING Europe (Rep. Office - Middle East)
Contact Details: Arenco Tower (Media City), P.O. Box 213345, Dubai - UAE
Tel. +971 4 434 71 40, Fax +971 4 432 7109
Email: info@foamglas.ae
www.foamglas.ae

Contact Person: Marco Thomas Vincenz, General Manager

FOAMGLAS® comes out outstandingly well in this overall assessment. Long service life, safety, environmental compatibility and economic feasibility make FOAMGLAS® the preferred insulating material for the whole building envelope.

National Polystyrene Packaging Factory L.L.C.
Contact Details: P.O. Box-79970, Jabel Ali Industrial Area # 3 Dubai
Tel: +971 4 8802005
Fax: +971 4 8802006
E-mail: napolpak@emirates.net.ae
www.nppfdubai.com

Contact Person: Mr. Saeed Al Saghir, Managing Director

National Polystyrene Packaging Factory (NPPF) manufactures and market all types of Polystyrene Products which are related to Construction, Thermal Insulation, Geofoam, Packaging, Architectural works and Decorations, that will suit Customer’s requirement. NPPF are serving U.A.E. & G.C.C. market since 1994 with excellent success.

National Polystyrene Packaging Factory is certified and Approved by prestigious private and public Certifying Institution, they are ISO 9001:2008 by M/s Lloyd’s Register Quality Assurance, DCL Conformity Mark by M/s Dubai Municipality, Emirates Quality Mark by M/s Emirates Authority for Standardization & Metrology (ESMA), Emirates Green Building Council Corporate Membership by M/s Emirates Green Building Council
ELECTRONIC & ENGINEERING INDUSTRIES CO. LLC
Contact Details:  P.O. Box-5088, Sharjah
Tel: +971 6 5332114
Fax: +971 6 5332011
E-mail: eeishj@emirates.net.ae
www.eei-ae.com

Contact Person:  Mr. M.J.Joseph
Electronic & Engineering Industries Co. LLC. was established in the year 1978 in Sharjah, U.A.E to manufacture Expanded Polystyrene Products. As a further expansion it was started its Extruded Polystyrene Factory (ROOFMASTER XPS) in Mussafah, Abu Dhabi during 2003

Hapri Insulation Materials Manufacturing
Contact Details:  Tel. +971-4-3405466 Fax. +971-4-3405477
Post Box # 37875, Dubai, U.A.E.
E-mail: hapri@emirates.net.ae
www.haprimiddleeast.com

Contact Person:  Mr. Niaz,
Marketing Manager
Type: Polyisocyanurate Insulation Board (Wall, Roof, Ceiling, Floor, Cladding)

Hapri Insulation Materials Manufacturing is one of the leading Manufacturer and Exporter of Polyisocyanurate Foam Board for Wall Insulation (External/Internal), Roof, Ceiling (Direct Paint Insulation available), Cladding, Cold Store, Pre-Insulated Duct Panels and Fabricated Ducts. Polyisocyanurate Foam Boards are available with different Laminations such as Fiber Glass and reflective Aluminum Foil depending upon the Applications.

We are having the honor of providing International quality products with best competitive prices and Minimum Delivery Time locally in UAE, Gulf Counties, Africa and to the sub continent.

GULF COOL THERM FACTORY LIMITED
Contact Details:  P.O Box 22069, Sharjah
Tel: +971 6 5439600
Fax: +971 6 5439611
E-mail: gulfcool@emirates.net.ae
www.gulfcooltherm.com

Contact Person:  Mr. Shaji, Marketing Manager

Gulf Cool Therm Factory Limited is an ISO 9001 Certified Company with Quality System certified by UKAS of United Kingdom. Gulf Cool Therm Factory Limited, as a manufacturers and suppliers of high quality: Polyisocyanurate, Polyurethane and Phenolic Foam Pipe, Duct, Wall, Roof, Tank and Vessel Insulations. Pre-insulated Pipes and Fittings for Industrial and District Cooling Applications. Phenolic Foam or PIR Pre-insulated Duct Insulation panel Polyurethane Spray applied Foam for Heat Insulation and Water Proofing Systems. With best CNC machineries in the field and quality material available, with highly qualified technical and commercial staff, we are confident that our product will comply with all international standard and definitely will meet your requirements. In order to facilitate our client with best service with respect to quality and prompt delivery, respective elements of production and marketing were provided and enhanced under a tight quality control.

2. Acoustic Insulation
Kuwait Insulating Material Manufacturing Co. (KIMMCO)
Contact Details:  P.O. Box 9207, Al Wasel Al Mamzar Bldg.,
Al Wuheida Road,
Al Mamzar, Dubai
Tel: +9714 2967660,Fax-04-2967550
E-mail: mshariff@alghanim.com / shariff@kimco.ae
www.kimmcoinsulations.com
Contact Person:  Mr. Munvar Shariff, Regional Sales Manager

Kuwait Insulating Material Manufacturing Co., (KIMMCO) is a market leading insulation solution provider in the Middle East, Africa, the Far East and other Asian countries. It manufactures and supplies customized and cost effective, reflective, acoustical and fire resistant insulation products as per International Standards.

FUJAIRAH ROCKWOOL FACTORY
Contact Details:  P.O Box 211, Fujairah
Tel: +971 9 2222297
Fax: +971 9 2222573
E-mail: frf@emirates.net.ae
www.rockwoolfujairah.ae
Contact Person:  Mr. J.M.Flores, Quality Management Representative

Fujairah Rockwool Factory was founded in 1982 in Fujairah, United Arab Emirates as a manufacturer of Rockwool insulation products in the GCC region. It begun with an annual capacity of 5000 metric tons, the factory has since then expanded operations to 40,000 metric tons per year and is today the largest manufacturer of insulation products in the GCC with supplies being sent to the Middle East, the Far East and other parts of the world besides the GCC countries.

Exeed Glasswool LLC.
Contact Details:
Industrial City of Abdu Dhabi [ICAD]
P.O Box 34332, Abu Dhabi
Tel: +971 2 5512453
Fax: +971 2 5512451
E–Mail: imallah@glasswool.ae
www.exeed.ae
Contact Person:  Mr. Imad Mallah, Sales Manager

Exeed Glasswool factory is located in the Industrial City of Abu Dhabi ICAD 1. The factory has a production capacity of 12,000 tonnes per year of Glasswool products, such as blankets, boards and pipe insulation. Exeed Glasswool insulation is committed to care for the planet with application of the new generation processes technology in production assuring lower consumption of energy.
The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group's headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.

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<th>701.02</th>
<th>Certified / Accredited Timber</th>
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<td>Applicable Standards / Regulations</td>
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<td></td>
<td>Dubai Municipality Technical Guideline – 48</td>
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</tbody>
</table>
Availability of material

701.04 Lead or Heavy Metals Containing Materials

Applicable Materials & Systems

1. Paints
2. Coating
3. Adhesive
4. Sealants

Applicable Standards / Regulations

Dubai Municipality Standard -20
Dubai Municipality Regulations

Availability of material

1. Paints
2. Coatings

Jotun Paints
Contact Details: Jotun UAE ltd. P.O.Box 3671, Al Quoz, Dubai. Tel 04 3395000 Fax: 04 3380666 E mail: csd@jotundxb.ae http://www.jotun.com/me

Contact Person: Mr. Wael Fahmy
Regional sales Manager

Founded in 1926 in Norway and established in the Middle East since 1974, Jotun - one of the world's leading paint manufacturers, contributes to the environment by developing and offering competitive, sustainable products and solutions. A truly single source solution for clients, consultants and contractors alike.

Green, Energy Saving & Energy Star Approved Coatings & Paints. Zero VOC & Low VOC Interior and Exterior Paints Including Waterproofing, Insulating, Protective, Decorative, Soundproofing, Industrial, Anti-Corrosion...
Coatings for Roofs, Walls, Floors, Tanks & More. Saving Energy while Preserving Environment & Atmosphere

Energy Zone L.L.C.
Contact Details: P.O.Box # 62650, Dubai Tel-04-2671622, Fax-04-2671633 E mail. energyzo@eim.ae www.energyzonecoating.com

Contact Person: Eng. Claude Nasif,
Managing Director
Caparol LLC.
Contact Details: Tel.04 - 3473538 Fax.04-3474256
E.mail: info@caparol.ae
www.caparol.ae

Contact Person: Mr.Ahmed El Bayaa,
Regional Sales Manager

Products Offered: Paints, Concrete Coatings & Thermal Insulation

The Caparol Group develops, produces and markets high quality paints, enamels, glazes, structural coatings, materials for facade and insulation technology. It is the market leader for building paints in Germany, Austria and Turkey and with over € 1 billion turnover, it is the third largest company in Europe within this business field. The group’s headquarters is in the northern Odenwald region in Germany about 35 kilometres from the Frankfurt Rhine-Main Airport.

AkzoNobel
Contact Details: P.O Box 290, Al Quoz, Dubai
Tel: +971 4 3472491, Fax: +971 4 3472339
E-mail: tenders.me@akzonobel.com
www.akzonobel.com

Contact Person: Mr. Simon Major,
General Manager (M.E. Business Development)

AkzoNobel is the largest global paint and coatings company and a major producer of speciality chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Our portfolio includes well known brands such as Dulux, Sikkens, International and Eka. We are a Global Fortune 500 company and are consistently ranked as one of the leaders on the Dow Jones Sustainability index. With operations in more than 80 countries, our 55,000 employees around the world are committed to excellence and delivering Tomorrow’s Answers Today.

Berger Paints Emirates Ltd LLC.
Contact Details: Tel: 04 3391000, Fax: 04 3391322
E-mail: customerservice.uae@bergeronline.com

Contact Person: Mr.P.K Raj,
Marketing Manager

Green Horizon is our endeavour to create a greener future, and make sure that every step we take is in consonance with our mission and vision which lay down our responsibility and accountability towards the environment.

National Paints
Contact Details: P.O Box 5822, Sharjah
Tel: 06 5340111, Fax: 06 5340222
E-mail: technic@national-paints.com

Contact Person: Gopal Kanojia,
Technical Manager

Through two of the biggest research and development labs and technical collaboration with international entities such as “Trans Ocean” from Holland, “Italtinto” from Italy, National Paints’ product line is constantly updated in accordance with the demands of each separate market involved.

National Paints expanding product range and its strive for quality have granted it several international awards of recognition. Its reputation has given full support to undergo paint projects for hotels, airports, government corporations, hospitals, cultural institutions and other private and public sectors in various countries.
3. Adhesives

MAS Paints and Chemicals Industry
Contact Details: P.O Box 23085, Sajja Industrial area, Sharjah
Tel: 06 5311777, Fax: 06 5311330
E-mail: maspaints@emirates.net.ae
www.maspaints.com

Contact Person: Mr. Marwan Al Atrash,
    Managing director
MAS Paints is widely known as pioneer in high performance wood coatings in the Middle East. Through its manufacturing units and showrooms, a wide range of decorative and finishing products are offered to end users, meeting all possible requirements from traditional craftsmen and joineries to the latest applications of UV curing and the low VOC lacquers (solvents and water-based). In addition to our traditional NC, PU and Acid Curing, our product range includes Dyes, Stains, Thinners, Polyester, Acrylics, Epoxy (for industrial application). Architectural paints and special effect decorative paints, where the most severe finishing applications from reputable hotels and palaces are met.

Al Gurg Fosroc LLC
Contact Details: P.O Box 657,Dubai
Tel: 04 - 2039699  Fax: 04 - 2859649
E-mail: agf@fosroc.com
www.fosroc.com

Contact Person: Mr. Manar Jamhour, General Manager
Fosroc is a world leader in the delivery of tailored Constructive Solutions for virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation. Fosroc has developed a substantial reputation for innovative products in concrete admixtures, concrete repairs, grouts and anchors, surface treatment, industrial flooring, joint and seals, waterproofing, adhesives and protective coatings.

NanoPhos SA (Nilgiris International FZCO)
Contact Details: P.O Box 54877, Dubai
Tel: +971 4 2998699, Fax: +971 4 2998698
E-mail: Krishnan@nilgirisfzco.com

Contact Person: Mr.A.N.Krishnan,
    General Manager (Operations)
NanoPhos manufactures environment friendly, water based, energy saving, water repelling, self cleaning & green products to protect porous and non-porous substrates such as concrete, natural stone, marble, granite, ceramic tiles, gypsum, natural wood, metals and glass. Nilgiris International FZCO is an international trading & marketing organization established in the year 2008 and located in Dubai Airport Free Zone. We represent NanoPhos SA, Greece as their Distributors in U.A.E., Oman & India.
Falcon Chemicals
Contact Details: P.O Box 2924, Dubai
Tel: 04 - 8801444 Fax: 04 - 8801717
E-mail: inquiry@falconchemicals.com
www.falconchemicals.com

Contact Person: Mr. Qazi, Marketing Manager

We offer a wide variety of products used in the construction industry. Our products have been used for more than 20 years in most of the prestigious projects all over the Middle East. The products for the construction industry are Tile Adhesives and Grouts, concrete repair mortars, specially formulated adhesives for marble, natural stones and polystyrene, bonding key coat, floor hardener, self leveling compound and Epoxy/polyurethane coating etc.

MAPEI (I.B.S. Innovative Building Solutions LLC.)
Contact Details: Post Box # 73869, Dubai
Tel: 04 815 6666 Fax: 04 815 6655
E-mail: l.haboubi@ibs-mapei.ae
www.mapei.ae

Contact Person: Mr. Laith Haboubi (Regional Director)

Founded in Milan, Italy in 1937, Mapei is today the world leader in the production of adhesives and complementary products for the installation of all types of floor and wall coverings. The company is also specialized in other chemical products for building with distinctive product lines which range from waterproofers to special mortars, from concrete admixtures to products for the restoration of ancient buildings. MAPEI has 68 subsidiaries with 58 production facilities in operation spread across 27 countries in five continents. MAPEI’s UAE subsidiary, Innovative Building Solutions LLC was formed as part of its long-term commitment to the Middle East. The company commenced production in February 2009, at its 40,000 m2 facility at Dubai Investments Park.

Al Gurg Fosroc LLC
Contact Details: P.O Box 657, Dubai
Tel: 04 - 2039699 Fax: 04 - 2859649
E-mail: agf@fosroc.com
www.fosroc.com

Contact Person: Mr. Manar Jamhour, General Manager

Fosroc is a world leader in the delivery of tailored Constructive Solutions for virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.

Fosroc has developed a substantial reputation for innovative products in concrete admixtures, concrete repairs, grouts and anchors, surface treatment, industrial flooring, joint and seals, waterproofing, adhesives and protective coatings.

4. Sealants
We offer a wide variety of products used in the construction industry. Our products have been used for more than 20 years in most of the prestigious projects all over the Middle East. The products for the construction industry are Tile Adhesives and Grouts, concrete repair mortars, specially formulated adhesives for marble, natural stones and polystyrene, bonding key coat, floor hardener, self leveling compound and Epoxy/polyurethane coating etc.

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701.05 Ozone Depletion Potential (ODP) Material Management

Applicable Materials & Systems

1. HVAC Equipments with zero Ozone depletion potential (OPD)

Applicable Standards / Regulations
### OPP and GWP Indices
Dubai Municipality Technical Guideline No. 58
Dubai Municipality Circular 108
Montreal Protocol

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<td>1. The Economic Agreement between GCC States Adopted on GCC Council 22 Session on 31st December 2001</td>
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|         | Dubai Municipality Regulations  
<p>|         | ASTM D 5456 / ASTM D 7032 / ASTM E 1333 / ASTM D 6007 / ASTM D 5582 |
|         | <strong>Availability of material</strong> |
|         | 1. Composite Wood Free From Urea &amp; Formaldehyde Resin |
| 702     | Chapter 2: Waste Management |
| 702.01  | Construction and Demolition Waste |
|         | <strong>Applicable Materials &amp; Systems</strong> |
|         | 1. Recycled / Reused Material |
|         | <strong>Applicable Standards / Regulations</strong> |
|         | Dubai Municipality Technical Guideline No. 26 |
|         | <strong>Availability of material</strong> |
|         | 1. Recycled / Reused Material |
| 702.02  | Bulk Waste Collection |</p>
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<td><strong>702.05</strong> Recyclable Waste Management Facilities</td>
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<td>1. Recyclable Waste Facility</td>
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<td>Applicable Standards / Regulations</td>
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PART - II

AVAILABLITY OF
TESTING FACILITY
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<tr>
<th>301.01</th>
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<td><strong>Applicable Standards / Regulations</strong></td>
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<tr>
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**Dubai Central Laboratory**

Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
Dubai
Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

Dubai Central Laboratory Department was established in 1997 with aim centralizing all the labs within Dubai Municipality under one department. DCL mission is to “Provide Product Conformity Assessment and perform Tests, Studies, Standards Development and Measurement Control, relying on our experts and accredited laboratories; aiming at contributing to consumer protection and achieving customer satisfaction” In our relentless effort for monitoring and maintaining product quality, the testing and related services and enforcement of Dubai Municipality regulations play a vital role. We are guided by simple objective and that is “Enhancement of Quality of Life in Dubai”.
### 301.03 Bicycle Storage and Changing Rooms

**Applicable Materials & Systems**

1. Cycle Rack

**Applicable Standards / Regulations**

- Dubai Municipality Administrative Resolution No.- 125 – 2001
- Dubai Bicycle Master Plan 2008 - RTA

**Availability of Testing Facility**

Not Applicable

### 302 Chapter 2: Ecology and Landscaping

#### 302.01 Local Species

**Applicable Materials & Systems**

3. Vegetated roof
4. Planted area

**Applicable Standards / Regulations**

Not Applicable

**Availability of Testing Facility**

Not Applicable

### 303 Chapter 3: Neighborhood Pollution

#### 303.1 Exterior Light Pollution and Controls

**Applicable Materials & Systems**

3. Light shield
4. Automatic Control for Exterior Lighting

**Applicable Standards / Regulations**

- Dubai Municipality Administrative Resolution No.- 125 – 2001
- Dubai Bicycle Master Plan 2008 - RTA
Dubai Central Laboratory

Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
Dubai
Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

Dubai Central Laboratory Department was established in 1997 with aim centralizing all the labs within Dubai Municipality under one department. DCL mission is to "Provide Product Conformity Assessment and perform Tests, Studies, Standards Development and Measurement Control, relying on our expertise and accredited laboratories; aiming at contributing to consumer protection and achieving customer satisfaction" In our relentless effort for monitoring and maintaining product quality, the testing and related services and enforcement of Dubai Municipality regulations play a vital role. We are guided by simple objective and that is "Enhancement of Quality of Life in Dubai".

304 Chapter: 4 Micro Climate & Outdoor Comfort

304.01 Urban Heat Island Effect

Applicable Materials & Systems

2. High SRI Roof

Applicable Standards / Regulations


Availability of Testing Facility

2. High SRI Roof
Dubai Central Laboratory
Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
Dubai
Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

Dubai Central Laboratory Department was established in 1997 with aim centralizing all the labs within Dubai Municipality under one department. DCL mission is to ” Provide Product Conformity Assessment and perform Tests, Studies, Standards Development and Measurement Control, relying on our expertise and accredited laboratories; aiming at contributing to consumer protection and achieving customer satisfaction” In our relentless effort for monitoring and maintaining product quality, the testing and related services and enforcement of Dubai Municipality regulations play a vital role. We are guided by simple objective and that is ” Enhancement of Quality of Life in Dubai”.

Material Lab
Location & Contact Details
Al Quoze Industrial Area # 4, 10th Street.
Dubai
P. O. Box 114717, Dubai
Tel no.: +971 4 3405678
Fax no.: +971 4 3405677

Contact Person: Eng. Zahid Mahmood, General Manager
E-mail: mld@eim.ae
www.mlab.ae

Material Lab is an accredited independent material testing laboratory, established in 1996. Core business of the laboratory is performing advance testing on wide range of construction & industrial materials, Geotechnical Investigation (onshore/offshore), Oil, Gas, Chemicals and Environment testing. Laboratory’s operations are spread all over the UAE including near-shore marine operations. Material Lab has offices and laboratories in Mussaffah industrial area Abu Dhabi while main laboratory premises are located in Al Quoze Industrial Area Dubai. Both branches are accredited to ISO 17025 by the local authorities. Material Lab has various specialized facilities related to green building materials testing e.g. thermal properties of architectural glass, total VOC of various materials, SRI, thermal conductivity, U Value, formaldehyde content, carcinogenic elements and acoustic properties testing etc.

304.02 Green Roof

Applicable Materials & Systems

2. Green Roof System

Applicable Standards / Regulations

ASTM E – 2400, ASTM E - 1980
Availability of Testing Facility

2. Green Roof System

Dubai Central Laboratory
Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
Dubai
Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

Material Lab is an accredited independent material testing laboratory, established in 1996. Core business of the laboratory is performing advance testing on wide range of construction & industrial materials, Geotechnical Investigation (onshore/offshore), Oil, Gas, Chemicals and Environment testing. Laboratory’s operations are spread all over the UAE including near-shore marine operations. Material Lab has offices and laboratories in Mussaffah industrial area Abu Dhabi while main laboratory premises are located in Al Quoze Industrial Area Dubai. Both branches are accredited to ISO 17025 by the local authorities. Material Lab has various specialized facilities related to green building materials testing e.g. thermal properties of architectural glass, total VOC of various materials, SRI, thermal conductivity, U Value, formaldehyde content, carcinogenic elements and acoustic properties testing etc.

Material Lab
Location & Contact Details
Al Quoze Industrial Area # 4, 10th Street.
Dubai
P. O. Box 114717, Dubai
Tel no.: +971 4 3405678
Fax no.: +971 4 3405677

Contact Person: Eng. Zahid Mahmood, General Manager
E-mail: mld@eim.ae
www.mlab.ae

Dubai Central Laboratory Department was established in 1997 with aim centralizing all the labs within Dubai Municipality under one department. DCL mission is to "Provide Product Conformity Assessment and perform Tests, Studies, Standards Development and Measurement Control, relying on our expertise and accredited laboratories; aiming at contributing to consumer protection and achieving customer satisfaction" In our relentless effort for monitoring and maintaining product quality, the testing and related services and enforcement of Dubai Municipality regulations play a vital role. We are guided by simple objective and that is "Enhancement of Quality of Life in Dubai".

304.03 Light Colors on the Outside of Buildings

Applicable Materials & Systems
2. High LRV Coatings & Paints

**Applicable Standards / Regulations**

BS 8493: 2008 + A1, ASTM E 1175

**Availability of Testing Facility**

2. High LRV Coatings & Paints

**Dubai Central Laboratory**

Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
Dubai
Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

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**304.04 Orientation of Glazed Facades**

**Applicable Materials & Systems**

2. Building Glass

**Applicable Standards / Regulations**


**Availability of Testing Facility**
### 2. Building Glass

**Material Lab**

Location & Contact Details  
Al Quoze Industrial Area # 4, 10th Street.  
Dubai  
P. O. Box 114717, Dubai  
Tel no.: +971 4 3405678  
Fax no.: +971 4 3405677

Contact Person: Eng. Zahid Mahmood, General Manager  
E-mail: [mld@eim.ae](mailto:mld@eim.ae)  
[www.mlab.ae](http://www.mlab.ae)

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<table>
<thead>
<tr>
<th>304.05</th>
<th>Hardscape</th>
</tr>
</thead>
</table>

#### Applicable Materials & Systems

1. Vegetation  
2. Paving Material with High SRI  
3. Shading Material with High SRI

#### Applicable Standards / Regulations

ASTM – E – 1980, C-1549, C-1371, E - 408

#### Availability of Testing Facility

1. Vegetation
Dubai Central Laboratory

Location & Contact Details
Zabeel Road
Next to Central Post Office
Post Box # 67
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Tel. 04 302 7007
Fax: 04 336 2696

Contact Person: Eng. Ali Elian
(Head of Engineering Materials Section)
E-mail: info@dcl.ae
www.dcl.ae

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5. Paving Material with High SRI
Manuals Report 2011

6. Shading Material with High SRI

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304.06 Shading of Public Access Areas

Applicable Materials & Systems

2. Shading Material with High SRI

Applicable Standards / Regulations
Dubai Central Laboratory

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## 305.1 Impact of Construction, Demolition and Operational Activities

<table>
<thead>
<tr>
<th>Applicable Materials &amp; Systems</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>
| **Applicable Standards / Regulations** | ASTM International Technical Committee – 262 D – 34  
Dubai Municipality Local Order No. 61 / 1999  
Dubai Municipality Technical Guideline No. – 12, 26, 29, 44, 48, 50, 53, 56  
Dubai Municipality Building Dept. Circular – 77, 93, 89, 108, 117, 139, 154, 158, 161 |
| **Availability of Testing Facility** | Not Applicable |

## 306 Chapter 6: Environmental Impact Assessment

### 306.01 Environmental Impact Assessment

<table>
<thead>
<tr>
<th>Applicable Materials &amp; Systems</th>
<th>Not Applicable</th>
</tr>
</thead>
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<tr>
<td><strong>Applicable Standards / Regulations</strong></td>
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</tr>
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<td><strong>Availability of Testing Facility</strong></td>
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</tbody>
</table>
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### Chapter 1: Ventilation and Air Quality

<table>
<thead>
<tr>
<th>401</th>
<th>401.01 Minimum Ventilation requirements for Adequate Indoor Air Quality</th>
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<tr>
<td></td>
<td><strong>Applicable Materials &amp; Systems</strong></td>
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<td></td>
<td>Not Applicable</td>
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<tr>
<td></td>
<td><strong>Applicable Standards / Regulations</strong></td>
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<td></td>
<td>ASHRAE 62 - 2007</td>
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<tr>
<td></td>
<td><strong>Availability of Testing Facility</strong></td>
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<td><strong>Dubai Central Laboratory</strong></td>
</tr>
<tr>
<td></td>
<td>Location &amp; Contact Details</td>
</tr>
<tr>
<td></td>
<td>Zabeel Road</td>
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<td></td>
<td>Next to Central Post Office</td>
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<tr>
<td></td>
<td>Post Box # 67</td>
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<td></td>
<td>Dubai</td>
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<tr>
<td></td>
<td>Tel. 04 302 7007</td>
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<tr>
<td></td>
<td>Fax: 04 336 2696</td>
</tr>
<tr>
<td></td>
<td>Contact Person: Eng. Ali Elian</td>
</tr>
<tr>
<td></td>
<td>(Head of Engineering Materials Section)</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:info@dcl.ae">info@dcl.ae</a></td>
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<tr>
<td></td>
<td><a href="http://www.dcl.ae">www.dcl.ae</a></td>
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### 401.02 Air Quality During Construction, Renovation or Decoration

#### Applicable Materials & Systems

2. Air Filters

#### Applicable Standards / Regulations
### Availability of Testing Facility

#### 2. Air Filters

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**401.03 Air Inlets and Exhausts**
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>2. Air exhaust system</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicable Standards / Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASHRAE 62 – 2007, SMACNOT APPLICABLE 1035 – HVAC Duct Construction Standards</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Availability of Testing Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Air exhaust system</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>401.04</th>
<th>Isolation of Pollutant sources</th>
</tr>
</thead>
</table>

Applicable Materials & Systems

2. Air extraction System

Applicable Standards / Regulations
Dubai Central Laboratory

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<table>
<thead>
<tr>
<th>401.05</th>
<th>Openable Windows</th>
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### Applicable Materials & Systems

2. Windows

<table>
<thead>
<tr>
<th>Applicable Standards / Regulations</th>
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<tr>
<td>CIBSE application manual Am10:1997</td>
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### Availability of Testing Facility

Not Applicable

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<tr>
<th>401.06</th>
<th>Indoor Air Quality Compliance – New Buildings</th>
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</table>

### Applicable Materials & Systems

2. Enough ventilations

### Applicable Standards / Regulations
ASTM D – 5116, D – 6886

Availability of Testing Facility

1. Enough Ventilations

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401.07 Indoor Air Quality Compliance – Existing Buildings

Applicable Materials & Systems

2. Enough Ventilation

Applicable Standards / Regulations

- Heating and Ventilating Contractors Association (HVCA) TR-19 guide to good practice

Availability of Testing Facility

1. Enough Ventilation
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Material Lab

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Contact Person: Eng. Zahid Mahmood, General Manager
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<table>
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<tr>
<th>401.08</th>
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<td>2. HVAC systems / equipments</td>
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</table>
Dubai Central Laboratory

Location & Contact Details
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Next to Central Post Office
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Contact Person: Eng. Ali Elian
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<tr>
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**Availability of Testing Facility**

Not Applicable

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**Applicable Materials & Systems**

2. HVAC

**Applicable Standards / Regulations**

ASHRAE: 55

**Availability of Testing Facility**

2. HVAC systems / equipments

---

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Chapter 3: Acoustic Comfort

Acoustical Control

Applicable Materials & Systems

2. Acoustic Insulation Materials

Applicable Standards / Regulations

- BS – 8233: 1999
- Building Regulation Approved Document E(R-2008)OK
- Health Technical Memorandum 08 – 01 (U.K)
- Building Bulletin 93 (U.K.)

Availability of Testing Facility

2. Acoustic Insulation Materials

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Chapter 4: Hazardous Materials

Low Emitting Material: Paints and Coatings

Applicable Materials & Systems
2. Low VOC paints
3. Low VOC coatings

### Applicable Standards / Regulations

| ASTM D – 5116 |
| ISO – FDIS 11890 – 2 |
| ASTM D 3930 |

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### 404.02 Low Emitting Material: Adhesives and Sealants

### Applicable Materials & Systems

| 3. Low VOC Sealants |
| 4. Low VOC Adhesives |

### Applicable Standards / Regulations

| ASTM D – 5116 |
| ASTM D – 3930 |
| ISO-FDIS 11890-2 |

### Availability of Testing Facility
3. Low VOC Sealants

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4. Low VOC Adhesives

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404.03 Carpet Systems

Applicable Materials & Systems
2. Carpet

Applicable Standards / Regulations

Dubai Municipality – DCL Certification

Availability of Testing Facility

2. Carpet

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405 Chapter 5: Day lighting and Visual Comfort

405.01 Provision of natural Daylight

Applicable Materials & Systems

NOT APPLICABLE

Applicable Standards / Regulations

Dubai Municipality Regulations
### Availability of Testing Facility

Not Applicable

### 405.02 Views

#### Applicable Materials & Systems

Not Applicable

#### Applicable Standards / Regulations

Dubai Municipality Regulations

### Availability of Testing Facility

Not Applicable

#### 406 Chapter 6: Water Quality

#### 406.01 Legionella Bacteria and Building Water Systems

#### Applicable Materials & Systems

2. Water Treatment Chemicals

#### Applicable Standards / Regulations

ASTM D - 5952
Dubai Municipality Guidelines

#### Availability of Testing Facility

2. Water Treatment Chemicals
Dubai Central Laboratory

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406.02 Water Quality of Water Features

Applicable Materials & Systems

2. Water Treatment Chemicals

Applicable Standards / Regulations

ASTM D - 5952
Dubai Municipality Guidelines
ASRAE – Guideline 12 - 2000

Availability of Testing Facility

2. Water Treatment Chemicals
Dubai Central Laboratory

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### Chapter 1: Conservation and Efficiency: Building Fabric

#### 501.01 Minimum Envelope Performance Requirements

**Applicable Materials & Systems**

3. Thermal Insulation materials / Systems  
4. Glazed elements (Glass)

**Applicable Standards / Regulations**

- Dubai Municipality Ad. Order – 66  
- ASTM C-1363  
- ASTM C-578  
- ASTM C-612  
- BSEN-13162, to 13165

**Availability of Testing Facility**

3. Thermal Insulation Materials / Systems

**Dubai Central Laboratory**

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4. Glazed Elements (Glass)

501.02 Thermal Bridging

Applicable Materials & Systems

2. Thermal Insulation Materials

Applicable Standards / Regulations

Dubai Municipality Admin. Resolution 66 / 2003, CIBSE Environmental design guide
ASHRAE 90.1

Availability of Testing Facility

2. Thermal Insulation Materials
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<td>ASHRAE – Hand book</td>
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</table>
### Applicable Standards / Regulations

Not Applicable

### Availability of Testing Facility

Not Applicable

#### Applicable Standards / Regulations

- ASTM E – 783
- ASTM E- 1424

### Availability of Testing Facility

Dubai Central Laboratory

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502  Chapter 2: Conservation and Efficiency: Building Systems

502.01  Energy Efficiency – HVAC Equipment and Systems

Applicable Materials & Systems

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502.03 Elevators and Escalators

Applicable Materials & Systems

3. Energy saving escalators and elevators
4. Elevator/Escalator Control System

Applicable Standards / Regulations

ASTM F-916

Availability of Testing Facility

3. Energy saving escalators and elevators
4. Elevator / Escalator Control system

502.04 Lighting Power Density - Interior

Applicable Materials & Systems

2. Internal Lighting
<table>
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<th>Applicable Standards / Regulations</th>
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<tbody>
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### 502.09 Control Systems for Hotel Rooms

**Applicable Materials & Systems**

3. Light Control System  
4. HVAC Control System

**Applicable Standards / Regulations**

ASHRAE 90-1-2007  
Dubai Municipality / DEWA REGULATION

**Availability of Testing Facility**

3. Light Control System  
4. HVAC Control System

### 502.10 Exhaust Air Energy Recovery Systems

**Applicable Materials & Systems**

2. Energy Recovery System

**Applicable Standards / Regulations**

Not Applicable

**Availability of Testing Facility**

Not Applicable
502.11 Pipe and Duct Insulation

Applicable Materials & Systems

2. Duct Insulation Materials

Applicable Standards / Regulations

BS 5422:2009
ASTM C-518 / C-177

Availability of Testing Facility

2. Duct Insulation Materials

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502.12 Thermal Storage for District Cooling

Applicable Materials & Systems

Not Applicable

Applicable Standards / Regulations
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### 503.01 Commissioning of Building Services – New Buildings

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Dubai Municipality Code |
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Dubai Municipality Code |
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<table>
<thead>
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<td>Dubai Municipality / DEWA Regulations</td>
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<td>2. Solar Water Heater</td>
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### Chapter 1: Conservation and Efficiency

#### 601.01 Water Efficient Fittings

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<tr>
<td>3. Water Conserving Fixtures</td>
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<tr>
<td>4. Dual Flush</td>
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<thead>
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<th>Applicable Standards / Regulations</th>
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<td>EN 817 – Sanitary Tap ware</td>
</tr>
<tr>
<td>DM / DEWA Regulation</td>
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</tbody>
</table>

#### Availability of Testing Facility

3. Water Conserving Fixtures

---

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[www.dcl.ae](http://www.dcl.ae)

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Material Lab

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Al Quoze Industrial Area # 4, 10th Street.
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P. O. Box 114717, Dubai
Tel no.: +971 4 3405678
Fax no.: +971 4 3405677

Contact Person: Eng. Zahid Mahmood, General Manager
E-mail: mld@eim.ae
www.mlab.ae

Material Lab is an accredited independent material testing laboratory, established in 1996. Core business of the laboratory is performing advanced testing on a wide range of construction & industrial materials, Geotechnical Investigation (onshore/offshore), Oil, Gas, Chemicals and Environment testing. Laboratory's operations are spread all over the UAE including near-shore marine operations. Material Lab has offices and laboratories in Mussaffah industrial area Abu Dhabi while main laboratory premises are located in Al Quoze Industrial Area Dubai. Both branches are accredited to ISO 17025 by the local authorities. Material Lab has various specialized facilities related to green building materials testing e.g. thermal properties of architectural glass, total VOC of various materials, SRI, thermal conductivity, U Value, formaldehyde content, carcinogenic elements and acoustic properties testing etc.

4. Dual Flush

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<tr>
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601.03 Condensate Recovery

Applicable Materials & Systems
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<td>WRC – NSF Guide for Testing and approval of water pipes, fittings and materials</td>
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</table>
## 603 Chapter 3: Onsite Systems: Recovery and Treatment

### 603.01 Water Reuse

#### Applicable Materials & Systems

2. Dual Plumbing (Potable & Non Potable Water)

#### Applicable Standards / Regulations

- Dubai Municipality Technical Guide 62
- Dubai Municipality Regulations
- DEWA Specification

#### Availability of Testing Facility

Not Applicable

### 603.02 Water Consumption for Heat Rejection Including Cooling Towers

#### Applicable Materials & Systems

2. Water Meter

#### Applicable Standards / Regulations

- DEWA Specification

#### Availability of Testing Facility

2. Water meter
### 1. Chapter 1: Materials and Resources

#### 701.01 Thermal and Acoustical Insulation Materials

<table>
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<tr>
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<td>3. Thermal Insulation Materials</td>
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<tr>
<td>4. Acoustic Insulation</td>
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<td>3. Thermal Insulation Materials</td>
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#### 4. Acoustic Insulation
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<td>6. Coating</td>
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<tr>
<td>5. Paints</td>
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<td>6. Coatings</td>
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7. Adhesives

8. Sealants
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<th>701.07</th>
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<td>2. The Economic Agreement between GCC States Adopted on GCC Council 22 Session on 31\textsuperscript{st} December 2001</td>
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### 702.02 Bulk Waste Collection

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### 702.03 Waste Storage

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