UAE CIVIL DEFENCE

• GOALS FOR THE YEAR 2016
• STRINGENT RULES FOR ORGANIZATIONS
ALS FOR THE YEAR 2016

- UAE Fire and Life Safety Code of Practice 2016
ALS FOR THE YEAR 2016

- UAE Fire and Life Safety Code of Practice 2016
  - Second Edition
ALS FOR THE YEAR 2016

- UAE Fire and Life Safety Code of Practice 2016
  - Second Edition
  - Better structure, tables and figures
Directorate of Civil Defence
United Arab Emirates

Fire and Life Safety Code of Practice
2011

UAE Fire and Life Safety Code of Practice
2016
Directorate of Civil Defence
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  - New chapter on Responsibilities of Stake holders
ALS FOR THE YEAR 2016

- Responsibilities of Stake holders
  - Responsibilities of Developers
  - Responsibilities of Consultants
  - Responsibilities of Owners
  - Responsibilities of Tenants
  - Responsibilities of Facility Management
  - Responsibilities of School Management
  - Responsibilities of Hospital Management
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### Directorate of Civil Defence

**United Arab Emirates**

**ALS FOR THE YEAR 2016**

#### Smoke Control System Material Approval and registration.

<table>
<thead>
<tr>
<th>8.1. Acceptable Test Standards and criteria</th>
</tr>
</thead>
<tbody>
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<td>8.1.1. All the Materials, Systems, Assemblies referred to in this chapter will be Listed, Approved and Al Department.</td>
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#### Construction Material LPG Systems Material Test Standards, Approval and registration.

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| 7.1.2. There is no year of edition mentioned in Civil Defence to convey to the laboratories to follow the LATEST EDITION OF THE TEST STANDARD, AS AND WHEN THEY ARE UPGRADED/REVISED/AMENDED, TO THE DATE. |

<table>
<thead>
<tr>
<th>7.1.3. Fire resistance rating of Fire protection systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. EN 1366-1: Fire Resistance Walling - Part 1: Fire resistance of fire resisting partitions</td>
</tr>
<tr>
<td>ii. EN 1366-2: Fire resistance tests and the determination of fire resistance</td>
</tr>
<tr>
<td>iii. EN 13501-2: Classification of building materials and products - Part 2: Classification of building materials and products</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8.1.4. Fire Dampers (90 minutes and 3 hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. ANSI/UL 555, Standard for Fire</td>
</tr>
<tr>
<td>ii. EN 1366-2: Fire resistance tests</td>
</tr>
<tr>
<td>iii. EN 13501-3: Classification using data and materials</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8.1.5. Combination (Fire/Smoke) Dampers Galvanized steel frame</th>
</tr>
</thead>
<tbody>
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<td>i. ANSI/UL 555, Standard for Fire</td>
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<td>ii. EN 1366-2: Fire resistance tests</td>
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</table>

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#### LPG Cylinders

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<tr>
<th>4.1. Acceptable Test Standards and criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.1. All the Materials, Systems, Assemblies, Pipes and fittings, equipment, Products and Accessories, referred to in this chapter shall be Listed, Approved and Registered by the Civil Defence Material Approval Department.</td>
</tr>
</tbody>
</table>

| 4.1.2. There is no year of edition mentioned against any test standards, it is the intent of Civil Defence to convey to the customers seeking laboratory tests and the test laboratories to follow the LATEST EDITION OF THE TEST STANDARD, AS AND WHEN THEY ARE UPGRADED/REVISED/AMENDED, TO THE DATE. |

<table>
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<tr>
<th>4.1.3. LPG Cylinders</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. ASME Boiler and Pressure Vessel Code, Section VIII, &quot;Rules for the Construction of Unified Pressure Vessels,&quot; or the API-ASME Code for Unified Pressure Vessels for Petroleum Liquids and Gases.</td>
</tr>
<tr>
<td>ii. EN 12245, Transportable gas cylinders. Fully wrapped composite cylinders.</td>
</tr>
<tr>
<td>iii. EN 14427, LPG equipment and accessories. Transportable refillable fully wrapped composite cylinders for LPG. Design and construction.</td>
</tr>
<tr>
<td>iv. EN 1442 - LPG equipment and accessories. Transportable refillable welded steel cylinders for LPG. Design and construction.</td>
</tr>
<tr>
<td>vii. EN 14140 - LPG equipment and accessories. Transportable refillable welded steel cylinders for LPG. Alternative design and construction.</td>
</tr>
<tr>
<td>viii. ISO 4706 - Gas cylinders. Refillable welded steel cylinders. Test pressure 60 bar and below.</td>
</tr>
<tr>
<td>xi. EN 14893 - LPG equipment and accessories. Transportable Liquefied Petroleum Gas (LPG) welded steel pressure drums with a capacity between 150 liters and 1 000 liters.</td>
</tr>
<tr>
<td>xii. ISO 10460 gas cylinders — Welded carbon steel gas cylinders — Periodic inspection and testing.</td>
</tr>
</tbody>
</table>
ALS FOR THE YEAR 2016

WORKSHOPS Completed

✓ With Developers
✓ With Manufacturers
✓ With Municipalities

To identify non complaint existing buildings
To create data base of existing buildings at risk
To integrate approved material list with Municipalities
ALS FOR THE YEAR 2016

Future WORKSHOPS

✓ For CONSULTANTS
✓ For CONTRACTORS
✓ For OWNERS
✓ For FACILITY MANAGEMENT
TRINGENT RULES FOR ORGANIZATIONS

• CONSULTANT is responsible for code compliance
TRINGENT RULES FOR ORGANIZATIONS

• CONSULTANT is responsible for code compliance
  ✓ Design NOC from Civil Defence
  ✓ Contractor Qualifications
  ✓ Selection of Approved Material
  ✓ Inspection during construction
  ✓ Testing and Commissioning
  ✓ Completion from Civil Defence
TRINGENT RULES FOR ORGANIZATIONS

• CONSULTANT is responsible for code compliance

• MANUFACTURER has to submit legal undertaking to Civil Defence and Municipality

✓ Selling non-listed materials will be illegal and punishable
## CIVIL DEFENCE TEST REQUIREMENTS FOR CLADDING

<table>
<thead>
<tr>
<th>OCCUPANCY AND TYPE OF BUILDING</th>
<th>CORE MATERIAL WITHOUT SKIN</th>
<th>MCM PANEL WALL SYSTEM ACP PANEL WALL SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highrise buildings (&gt;23 m) Midrise buildings (15 m - 23 m) Assembly Hospital Educational</td>
<td>ANY OF THE FOLLOWING Class A with ASTM E 84 /UL 723 Class 0 with BS 476 Part 6 and 7 Class A1, d0 with EN 13501-1 Class A2 with DIN 4102 Class 1 with FM 4880</td>
<td>WALL SYSTEM SHALL SATISFY ANY OF THE FOLLOWING Pass as assembly with NFPA 285 :2012 Pass as assembly with BS 8414-1:2002 Pass as assembly with BS 8414-2:2002 Pass as assembly with EN 1364-3</td>
</tr>
<tr>
<td>Any building having less than 3m separation distance from property line and/or adjacent building.</td>
<td>ANY OF THE FOLLOWING Class A with ASTM E 84 /UL 723 Class 0 with BS 476 Part 6 and 7 Class A1, d0 with EN 13501-1 Class A2 with DIN 4102 Class 1 with FM 4880</td>
<td>WALL SYSTEM SHALL SATISFY ANY OF THE FOLLOWING Pass as assembly with NFPA 285 :2012 Pass as assembly with BS 8414-1:2002 Pass as assembly with BS 8414-2:2002 Pass as assembly with EN 1364-3</td>
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<tr>
<td>Lowrise buildings (0 - &lt;15 m) other than Assembly, Hospital and Educational</td>
<td>ANY OF THE FOLLOWING Class A with ASTM E 84 /UL 723 Class 0 with BS 476 Part 6 and 7 Class A1, d0 with EN 13501-1 Class A2 with DIN 4102 Class 1 with FM 4880</td>
<td>MCM/ACP PANELS SHALL SATISFY ANY OF THE FOLLOWING Class A with ASTM E 84 /UL 723 Class 0 with BS 476 Part 6 and 7 Class A1, d0 with EN 13501-1 Class A2 with DIN 4102 Class 1 with FM 4880</td>
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• CONSULTANT is responsible for code compliance

• MANUFACTURER has to submit legal undertaking to Civil Defence and Municipality
  
  ✓ Selling non-listed materials will be illegal and punishable

• OWNER has to annually renew NOC to continue
  
  ✓ Ensure all building Fire and Life Safety Systems are functioning as
THANK YOU

YOUR QUESTIONS AND SUGGESTIONS FOR A BETTER CIVIL DEFENCE FOR A SAFER UAE ARE WELCOME