

# TÜV SÜD MIDDLE EAST L.L.C.

Head Office - P.O. Box : 45117 - Abu Dhabi - U.A.E.

Tel. : +971 2 6767600 Fax : +971 2 6762224 C.R. 46452

E-mail : tuevs@tuevsme.ae

Branch Office - P.O. Box : 2834 - Dubai - U.A.E.

Tel. : +971 4 3553342 Fax : +971 4 3553372 P.L. 525132

E-mail : tuvdx@emirates.net.ae

Web Site : www.tuevs.de



Middle East



## توف سود ميدل ايست ذ.م.م.

مكتب الرئيسي - ص.ب : ٤٥١١٧ - أبوظبي - أ.ع.م.

هاتف : +٩٧١ ٢ ٦٧٦٧٦٠٠ فاكس : +٩٧١ ٢ ٦٧٦٢٢٢٤

رقم السجل التجاري : ٤٦٤٥٢

مكتب فرع - ص.ب : ٢٨٣٤ - دبي - أ.ع.م.

هاتف : +٩٧١ ٤ ٣٥٥٣٣٤٢ فاكس : +٩٧١ ٤ ٣٥٥٣٣٧٢

رقم الرخصة : ٥٢٥١٣٢

### REGISTERED CERTIFICATE OF THIRD PARTY WITNESS FOR CABLE MANAGEMENT SYSTEMS – CABLE TRAYS, CABLE LADDERS & CABLE TRUNKING SYSTEMS

CERTIFICATE NO ;TA-09D-05-11165

THIS IS TO CERTIFY that the undersigned representative of this organization did, at the request of **T.S.S.C. P.O.BOX – 1818, SHARJAH – U.A.E** attended on the 07,11,15,17,18 Oct.2009, at their factory in Sharjah Industrial Area No.1 (INTERMETAL, P.O.BOX – 22285, SHARJAH) to carry out witnessing of Design Tests for Cable trays, Cable ladders & Cable Trunking systems and reports as under mentioned.

#### 1. Scope of Witness :

Witness for Design Tests of Cable Trays, Cable Ladder and Cable Trunking Systems.

Relevant Standard:

**BS EN 61537:2007**

- Cable Management, Cable Tray Systems & Cable

**Ladder Systems**

**NEMA VEI:2002**

- Metal Cable Tray/Ladder Systems

**BSI BS EN 50085-1 : 2005**

- Cable Trunking/Ducting Systems – Part 1

**BSI BS EN 50085 –2–1:2006**

- Cable Trunking / Ducting Systems – Part 2-1

/The certificate is issued subject to the condition that it is understood and agreed that nothing in this report shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, expressed or implied, and TUV Sud Middle East, LLC shall be limited to the acts or omissions of its employees, agents and subcontractors. Under no circumstances whatsoever shall TUV Sud Middle East, LLC be liable for any injury or damage to any person, or occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and only those items inspected by TUV Sud Middle East, LLC and which are covered by this certificate.

Time Sheet: 7027,29,32,381, 82/2009

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DOC NO QF/DC/CTS-REV 0

## **2. Product Description :**

### **Cable Managements Systems**

The following is the products tested:

- Cables Trays
- Cable Ladder
- Cable Trunking
- Cable Ladder Rungs
- Cantilever Brackets
- Cable Tray & Trunking Fittings.

## **3. References:**

- Quality Control Manual – TS-QCM-01
- Quality Plan – QP-CM -01
- Design Manual – DM-CMS – 01
- Mill test certificates of SAE 1006 Grades & ASTM-A-653 Gr 50 Materials
- Calibration Certificates of Testing Machine & it's parts.
- Design Drawings:    a) Cable Trays    - CM-CTY-001 to CM-CTY-084  
                                  b) Cable Ladder   - CM-CL-001 TO CM-CL-010  
                                  c) Cable Trunking –CM-CTK-001 to CM-CTK-028

## **4. Results:**

All the above mentioned references has been reviewed and checked by :  
TUV SUD MIDDLE EAST, Found Satisfactory & Valid

The drawing reference no. [(CM-CTY-001 TO CM-CTY-084), (CM-CL-001 TO CM-CL-010), (CM-CTK-001 to CM-CTK-0280)] found to be satisfactory.

The Calibration certificates for the testing machine and it's parts are satisfactory.

The test result summary for the materials above and the report SR-I-001 is satisfactory.

Test Reference Nos. See Attached Reports certified.

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Test Reference Nos.

TEST	PRODUCT	SIZE	REFERENCE NO.	SAMPLE NO.
LOAD TEST	CABLE TRAY	900 X 50	07102009-003	3
			13102009-011-012	2 & 1
		900 X 25	07102009-004	1
			13102009-009-010	2 & 3
		450 X 25	07102009-005	3
			13102009-007-008	2 & 1
	CABLE LADDER	300 X 100	17102009-011-012	1 & 2
			13102009-003-004	1 & 2
		300 X 150	15102009-002	3
			13102009-005-006	1 & 2
		300 X 200	15102009-001	3
			11102009-003	1
	LADDER RUNGS	40 X 20	18102009-001-003	1,2 & 3
	CABLE TRUNKING	300 X 50	11102009-002-004	1,2 & 3
			150 X 50	11102009-005-007
		50 X 50	11102009-008-010	1,2 & 3
100 X 50			171002009-001-003	1,2 & 3
ELECTRICAL TEST	CANTILEVER BRACKETS	450 X 50	17102009-004-007	1,2,3 & 4
		950 X 50	17102009-008-010	1,2 & 3
		900 X 50	07102009-001	1,2 & 3
	CABLE TRAY	50 X 25	07102009-002	1,2 & 3
		900 X 25	11102009-001	1,2 & 3
		200 X 200	15102009-003	1
COMPRESSION TEST	CABLE TRUNKING	300 X 300	17102009-001	1
		150 X 50	17102009-002	1
		300 X 50	17102009-003	1
		200 X 200	18102009-004	1
CABLE SUPPORT TEST	CABLE TRUNKING	300 X 300	18102009-005	1
		DIMENSION INSPECTION		
MARKING INSPECTION				VISUAL INSPECTION OF CUT PIECES OF AVAILABLE SAMPLE WITH MARKING
CONSTRUCTION INSPECTION	CABLE TRAY & CABLE LADDER	SCREWED CONNECTIONS OF CABLE TRAY AND LADDER		
	CABLE TRUNKING	CLAMPS OF CABLE TRUNKING		

All the required documents has been reviewed and checked by TUV SUD MIDDLE EAST and found satisfactory, valid and hereby approved.

This certificate is valid only for the above mentioned materials.

This certificate is invalid in case of any alternation or modification on design or the grade of the materials.

Inspected by :

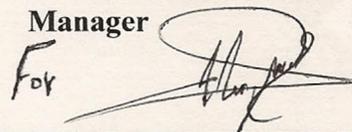
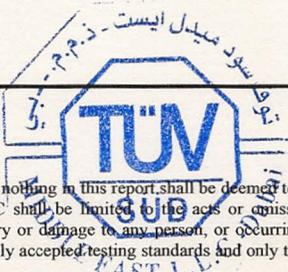
**TROY ALBUQUERQUE**  
Inspection Engineer



Date :18/10/2009

Approved by:

**HOUSSAM ZAMMAM**  
Manager

The certificate is issued subject to the condition that it is understood and agreed that nothing in this report shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, expressed or implied, and TUV Sud Middle East, LLC shall be limited to the acts or omissions of its employees, agents and subcontractors. Under no circumstances whatsoever shall TUV Sud Middle East, LLC be liable for any injury or damage to any person, or occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and only those items inspected by TUV Sud Middle East, LLC and which are covered by this certificate.