

**DUBAI CENTRAL LABORATORY DEPARTMENT
DCL PRODUCT CONFORMITY CERTIFICATION SCHEME**

**SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL05020002**

Certificate Issued To:	ISOFOAM INSULATING MATERIALS PLANT W.L.L. P.O. Box 23053, Safat, 13091 Kuwait
Applicable Standard Specification:	ASTM C 578 – 18 – Standard Specification for Cellular Rigid Polystyrene Thermal Insulation
Applicable Specific Rules:	DM-DCLD-RD-DP21-2106 (IC) “Specific Rules for Certification of Rigid Cellular Polystyrene Thermal Insulation as per ASTM C 578 – 18 Through Factory Assessment”.

NO.	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS		
			SIZE	THICKNESS	TYPE
1	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD LD 21 CW	2500 mm x 600 mm	40 mm & 50 mm	Type X (as per Table 1)
2	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD LD 26 CW	2500 mm x 600 mm	40 mm & 50 mm	Type IV (as per Table 1)
3	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD ND	1250 mm x 600 mm	25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VI (as per Table 1)
4	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD 36	1250 mm x 600 mm	20, 25, 30, 40, 50, 60, 65 and 75 mm	Type VII (as per Table 1)
5	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD MD	1250 mm x 600 mm	40, 50, 60, 65, 75, 80 and 100 mm	Type VII (as per Table 1)
6	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD HD	1250 mm x 600 mm	50 mm	Type V (as per Table 1)
7	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD GREEN LD	2500 mm x 600 mm	25, 40 50,75 & 100 mm	Type IV (as per Table 1)
8	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD GREEN ND	1250 mm x 600 mm	25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VI (as per Table 1)
9	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD GREEN MD	1250 mm x 600 mm	25, 30, 40, 50, 60, 65, 75, 80, and 100 mm	Type VII (as per Table 1)

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10	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD GREEN 36	1250 mm x 600 mm	20, 25, 30, 40, 50, 60, 65 and 75 mm	Type VII (as per Table 1)
11	Rigid Cellular Extruded Polystyrene Thermal Insulation Board CFC Free (see Note 3)	ISOBOARD GREEN HD	1250 mm x 600 mm	25, 50, 75, and 100 mm	Type V (as per Table 1)

- NOTE1:** This document forms part of the Certificate of Product Conformity bearing the same certificate number.
NOTE2: The above product shall bear the DCL Conformity Mark (applied on each product or on the packaging).
NOTE 3: CFC Free as per declaration from the company, in accordance with the 2017 Al Sa'fat Dubai Green Building Evaluation System.

**TABLE 1 (EXTRUDED)
PHYSICAL PROPERTY REQUIREMENTS OF RIGID CELLULAR
POLYSTYRENE THERMAL INSULATION**

SN	PROPERTIES	TYPE XII	TYPE X	TYPE XIII	TYPE IV	TYPE VI	TYPE VII	TYPE V
1	COMPRESSIVE RESISTANCE @ yield or 10% deformation, which occurs first, min kPa	104	104	138	173	276	414	690
2	THERMAL RESISTANCE of 25.4 mm thickness, @ mean temp. 35°C and 60% RH min, K-m ² /W	0.77	0.84	0.65	0.84	0.84	0.84	0.84
3	THERMAL CONDUCTIVITY , max, W/m-K @ 35°C and 60% RH	0.0330	0.0303	0.0392	0.0303	0.0303	0.0303	0.0303
4	FLEXURAL STRENGTH , min, kPa	276	276	310	345	414	517	690
5	WATER VAPOR PERMEANCE of 25.4 mm thickness, max, perm	1.5	1.5	1.5	1.5	1.1	1.1	1.1
6	WATER ABSORPTION by total immersion, max volume %	0.30	0.30	1.0	0.30	0.30	0.30	0.30
7	DIMENSIONAL STABILITY (change in dimension), max, %	2.0	2.0	2.0	2.0	2.0	2.0	2.0

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8.	OXYGEN INDEX, min, volume %	24	24	24	24	24	24	24
9.	DENSITY, min, kg/m ³	19	21	26	23	29	35	48

NOTE: THE ABOVE SPECIFICATION VALUES ARE EXTRACTED FROM TABLE 1 OF ASTM C578-18

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