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Laboratorio autorizzato ai sensi del Decreto del Ministero dell'Interno 26/03/1985

CLASSIFICATION REPORT No. 298632/3463FR

Place and date of issue: Bellaria-Igea Marina - Italy, 09/10/2012

Customer: SINIAT S.p.A. - Via Giovanni Gioacchino Winckelmann, 2 - 20146 MILANO (MI) - Italy

Specimen name: Tramezzo D125/75 (D125/75 partition)

Introduction

This fire resistance classification report defines the classification assigned to the vertical non-loadbearing element called "D125/75 partition" in accordance with the procedures given in standard UNI EN 13501-2:2009 dated 26/11/2009 "Fire classification of construction products and building elements - Part 2: Classification using data from resistance to fire tests, excluding ventilation services".

Details of specimen

Type of function

The vertical non-loadbearing element called "D125/75 partition" is a non-loadbearing wall. It is designed to provide fire resistance in accordance with the performance characteristics set out under clause 5 of standard UNI EN 13501-2:2009.





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Description

The vertical non-loadbearing element called "D125/75 partition" is a non-loadbearing wall formed by a partition, nominal thickness 125 mm, comprising a galvanised-steel framework, nominal depth 75 mm, clad on both sides with a double layer of PregyLaDura BA 13 type "D, F, H1, I, R" gypsum plasterboard in accordance with standard UNI EN 520:2009, nominal thickness 12,5 mm and nominal weight 12,8 kg/m².

Test report and results supporting this classification report

This classification report is supported by the following test report.

Test Laboratory	Istituto Giordano S.p.A.		
Laboratory address	Via Verga, 6 - 47043 Gatteo (FC) - Italy		
Authorisation code	RN01FR07B1		
Customer	SINIAT S.p.A Via Giovanni Gioacchino Winckelmann, 2 - 20146 MILANO (MI) - Italy		
Test Report	No. 298632/3463FR dated 09/10/2012		
Test date	30/07/2012		

Exposure condition

Temperature/time curve	Standard (furnace temperature and pressure meet the requirements of standard UNI EN 1363-1:2001 dated 31/07/2001 "Fire resistance tests - General requirements", subclauses 5.1.1, 5.1.2 and 5.2.1)
Direction of exposure	One of the two faces exposed to fire [*] (test on 30/07/2012)
Number of exposed surfaces	1
Support conditions	No supporting construction

(*) The specimen is symmetrical.





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Test results

Integrity

	Test on 30/07/2012 with one of the two faces exposed to fire
Ignition of cotton pad	No ignition
Occurrence of sustained flaming	None
Passage of gap gauge of 6 mm diameter	No passage
Passage of gap gauge of 25 mm diameter	No passage

Insulation

\sim	Test on 30/07/2012 with one of the two faces exposed to fire
Mean temperature rise on the unexposed face exceeds 140 °C	> 134 min
Maximum temperature rise on the unexposed face exceeds 180 °C	134 min

Classification and direct field of application

Reference of classification

This classification has been carried out in accordance with clause 7.5.2 of standard UNI EN 13501-2:2009.





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Classification

The vertical non-loadbearing element called "D125/75 partition" is classified according to the following combinations of performance parameters and classes.

No other classifications are permitted.

EI 120 (ONE HUNDRED AND TWENTY)

Field of direct application

In accordance with standard UNI EN 1364-1:2002, the vertical non-loadbearing element called "D125/75 partition" has the following field of direct application.

Type of change	Relevant clause of standard UNI EN 1364-1:2002	Possibility of change
Decrease in height	13.1 a)	Permitted
Increase in the thickness of the wall	13.1 b)	Permitted
Increase in the thickness of component materials	13.1 c)	Permitted
Decrease in linear dimensions of boards or panels but not thickness	13.1 d)	Permitted
Decrease in stud spacing	13.1 e)	Permitted
Decrease in distance of fixing centres	13.1 f)	Permitted
Increase in the number of horizontal joints when tested with one joint not more than 500 mm from the top edge	13.1 g)	Permitted
The use of surface fittings and fixtures when tested as il- lustrated in figure 10 with the fixture or fitting not more than 500 mm from the top edge	13.1 h)	Not allowed
Horizontal and/or vertical joints, of the type tested	13.1 i)	Permitted
Extension of width	13.2	Permitted
Extension of height to 4 m	13.3	Permitted
Standard supporting constructions	13.4.1	Not applicable
Non-standard supporting constructions	13.4.2	Not applicable



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Rules for changes to supporting constructions

Not applicable.

Limitations

Restrictions

There are no restrictions on the duration of the validity of this classification report.

Warning

This report does not represent type approval or certification of the product.

Test Technician: Dott. Geol. Franco Berardi

Head of Fire Resistance Laboratory: Dott. Ing. Stefano Vasini Chief Executive Officer (Dott. Arch. Sara Lorenza Giordano)

and the States



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TEST REPORT No. 298632/3463FR

Place and date of issue: Bellaria-Igea Marina - Italia, 09/10/2012

Customer: SINIAT S.p.A. - Via Giovanni Gioacchino Winckelmann, 2 - 20146 MILANO (MI) - Italy

Date test requested: 06/07/2012

Order number and date: 57022, 13/07/2012

Date specimen received: 10/07/2012

Test date: 30/07/2012

Purpose of test: determining the fire resistance of a vertical non-loadbearing separating element in accordance with standards UNI EN 1363-1:2001 and UNI EN 1364-1:2002

Test site: Istituto Giordano S.p.A.- Blocco 7 - Via Verga, 6 - 47043 Gatteo (FC) - Italy

Specimen origin: sampled and supplied by the Customer

Identification of specimen received: No. 2012/1498

Introduction

In accordance with the provisions of standards UNI EN 1363-1:2001 and UNI EN 1364-1:2002, a test was performed in the test furnace of this Institute's Fire Resistance Laboratory on a non-loadbearing wall called "Tramezzo D125/75" ("D125/75 partition") manufactured and submitted by the company Siniat S.p.A. - Via Giovanni Gioacchino Winckelmann, 2 - 20146 Milano (MI) - Italy.





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Description of specimen*

The specimen is a non-loadbearing wall called "D125/75 partition" whose dimensions are given in the following table.

Nominal width	3170 mm	
Nominal height	3000 mm	
Nominal thickness	125 mm	

The specimen's main components are:

- metal framework, nominal depth 75 mm, comprising:
 - 2 horizontal tracks (1 ceiling and 1 floor) made from PregyMetal STANDARD 75 shaped DX51D+Z galvanised-steel TRACK, nominal size 40 × 75 × 40 mm and nominal thickness 0,6 mm, predrilled every 500 mm, secured to the wall using steel expansion anchors placed at a nominal centre-to-centre distance of 500 mm;
 - studs made from PregyMetal STANDARD 75
 - shaped DX51D+Z galvanised-steel STUD, nominal size
 50 × 74 × 47 mm and nominal thickness 0,6 mm, placed at a nominal centre-to-centre distance of
 600 mm with ends inserted in the above-mentioned tracks;
- cladding, nominal thickness 25 mm, fitted to both sides of the above-mentioned supporting framework and made from a double layer of PregyLaDura BA 13 type "D, F, H1, I, R" gypsum plasterboard in accordance with standard UNI EN 520:2009 dated 18/10/2009 "Gypsum plasterboards - Definitions, requirements and test methods" having tapered longitudinal edges and a core densified and reinforced by wood fibres, nominal thickness 12,5 mm and nominal weight 12,8 kg/m², arranged with staggered joints and secured to the profiled sections of one of the two above-mentioned metal frameworks by PregyLaDura 3,9×25 steel self-tapping screws, nominal diameter 3,9 mm and nominal length 25 mm, placed at a nominal centre-to-centre distance of 500 mm for the first layer and by PregyLaDura 3,9×45 steel self-tapping screws, nominal diameter 3,9 mm and nominal length 45 mm, placed at a nominal centre-to-centre distance of 200 mm for the second layer;

joints between boards on the exposed faces are sealed with microperforated paper joint tape and Pregy powdered setting-type joint compound, whilst screw heads and perimeter edges on the exposed faces are sealed with the Pregy joint compound only.

The following sheets show schematic drawings of the test specimen.

^(*) according to detailed description provided by the Customer whose accuracy was verified following inspection of the specimen received by staff from this Institute.





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Supporting construction

The specimen was mounted in a warp-resistant reinforced-concrete perimeter test frame, nominal density 2300 kg/m^3 , without the need for a supporting construction.

Symbol	Description
1	Metal framework - horizontal track: PregyMetal STANDARD 75 — -shaped DX51D+Z galva- nised-steel TRACK, nominal size 40 × 75 × 40 mm and nominal thickness 0,6 mm, predrilled eve- ry 500 mm
2	Steel expansion anchor
3	Metal framework- stud: PregyMetal STANDARD 75 \square -shaped DX51D+Z galvanised-steel STUD, nominal size 50 × 74 × 47 mm and nominal thickness 0,6 mm
4	PregyLaDura BA 13 type "D, F, H1, I, R" gypsum plasterboard in accordance with standard UNI EN 520:2009 having tapered longitudinal edges and a core densified and reinforced by wood fibres, nominal thickness 12,5 mm and nominal weight 12,8 kg/m ²
5	PregyLaDura 3,9×25 steel self-tapping screws, nominal diameter 3,9 mm and nominal length 25 mm
6	PregyLaDura 3,9×45 steel self-tapping screws, nominal diameter 3,9 mm and nominal length 45 mm
7	Sealing of joints between cladding boards: microperforated paper joint tape and Pregy pow- dered setting-type joint compound
8	Sealing of cladding fixing screw heads and perimeter edges: Pregy powdered setting-type joint compound
9	Test frame

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Normative References

The test was performed using detailed internal procedure PP041 revision 2 dated 14/01/2011 "Fire resistance tests for non-loadbearing separating elements - walls - UNI EN 1364-1" and in accordance with the requirements of the following standards:

- UNI EN 1363-1:2001 dated 31/07/2001 "Fire resistance tests General requirements";
- UNI EN 1364-1:2002 dated 01/04/2002 "Fire resistance tests for non-loadbearing elements Walls".

Conditioning

Prior to testing, the specimen was stored in the laboratory for 20 days until reaching an equilibrium.

Test method

Description of test furnace

A test furnace was used having an opening on the vertical face, internal height 3200 mm, internal width 3200 mm and internal depth 1200 mm, ceramic-fibre lining and fitted with:

- 8 twin-flame, light-oil-fired burners, equally spaced over the vertical side walls;
- 2 separate chimneys with electronically-controlled valves for varying outlet area;
- pressure measurement system comprising:
 - 2 pressure measuring devices situated 500 mm and ⅔ up the furnace opening, connected to an automatic recording system;
 - manual pressure reading system situated on one of the furnace walls close to the opening;
- temperature measurement system comprising:
 - control units situated on the vertical sides of the furnace for measuring temperatures inside the furnace;
 - type "K" thermocouples connected to a mobile control unit, in turn connected to a reader that transforms the potential difference of the thermocouples themselves into temperature;
- data acquisition system connected to an electronic calculator with management software.





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Face exposed to fire

The test specimen is symmetrical, therefore just one of the two faces was exposed to fire.

Temperature and deflection measurement points

The temperature measuring points on the test specimen's unexposed face (position of thermocouples on the unexposed face) and within the test specimen (position of internal thermocouples) and the specimen deflection measuring points (position of displacement transducers) are shown in the schematic drawing on the next page.

Pressure measuring

Pressure was measured using a T-shaped pressure sensor positioned inside the test furnace 500 mm above the base of the specimen and 100 mm from the supporting element.

Uncertainty of measurement

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result. (Test report No. 298632/3463FR dated 09/10/2012)

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Test results

Environmental conditions during test

Ambient temperature at the commencement of	20.00
the test	50 C

Fire resistance test

The significant behaviour described in the following table was witnessed during the test.

Time	Observations		
[min]			
40	Patches of condensation start to form on the specimen's unexposed face along the bottom edge.		
115	Blackening begins around the screw heads on the specimen's unexposed face.		
122	Blackening begins at the middle/bottom section of the cladding boards on the specimen's unexposed face.		
134	Test halted as specimen suffers insulation failure due to temperature rise over initial ambient temperature exceeding 180 °C as recorded by the roving thermocouple located in the most blackened area of the cladding boards.		

Repeated checks carried out on the specimen face not exposed to fire in accordance with standard UNI EN 1363-1:2001 at no time recorded specimen integrity failure.





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Temperature

Upon halting the test, the temperature rises recorded by the thermocouples fitted to the specimen had reached the values set out in the following table.

Thermocouples on the unexposed face			
Measuring point		Thermocouple	Temperature rise
		[No.]	[°C]
At the centre and along the diagonals of the	mean	1-5	81
specimen	maximum	1-5	100
15 mm in from the specimen's restrained vertical edge, at mid height		6	98
15 mm in from the specimen's top edge, at mid width		7	71
100 mm in from the specimen's free vertical edge, at mid height		8	78
15 mm in from the specimen's top edge and 15 mm from the ver- tical joint between two cladding boards		9	66
15 mm from the intersection of a vertical and horizontal joint be- tween three cladding boards		10	73
15 mm from the vertical joint between two cladding boards		11	80

	Internal thermocouples		
Measuring point		Thermocouple	Temperature rise
		[No.]	[°C]
On the clad- ding	boards exposed to fire	12	1062
	boards not exposed to fire	13	444



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Internal thermocouples			
Measuring point		Thermocouple	Temperature rise
		[No.]	[°C]
	on the flange pointing towards the face exposed to fire	14	902
	on the side	15	927
Incida tha	on the flange pointing towards the face not ex- posed to fire	16	890
	on the flange pointing towards the face exposed to fire	17	934
metal frame-	on the side	18	900
work studs	on the flange pointing towards the face not ex- posed to fire	19	941
	on the flange pointing towards the face exposed to fire	20	939
	on the side	21	859
	on the flange pointing towards the face not exposed to fire	22	865

Deflection

Deflection values with respect to a fixed datum recorded during the test are set out in the following table.

Measurement time	Deflection		
	at point "A"	at point "B"	
[min]	[mm]	[mm]	
0	0	0	
10	3	3	
20	3	2	
30	2	2	
40	3	2	
50	6	6	
60	22	21	
70	33	33	
80	38	38	
90	41	39	

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Measurement time	Deflection		
	at point "A"	at point "B"	
[min]	[mm]	[mm]	
100	42	40	
110	46	44	
120	50	49	
130	47	46	
134	46	45	

The following sheets show:

- graph with standard furnace heating curve and that actually witnessed during the test;
- graphs with temperature/time curves recorded by the thermocouples applied to the test specimen;
- pressure/time curve;
- table of percentage deviation "d_e";
- photos of specimen before and after test.



----- Furnace heating test temperature



Average temperature rise at the centre and along the diagonals of the specimen (T1+T5)

----- Maximum temperature rise at the centre and along the diagonals of the specimen (T1+T5)



---- Temperature rise 100 mm in from free vertical edge (T8)



Temp.rise 15 mm in from the top edge and 15 mm from the vertical joint between 2 cladding boards(T9)

----- Temp.rise 15 mm from the intersection of horizontal and vertical joints between cladding boards(T10)

---- Temperature rise 15 mm from the vertical joint between two cladding boards (T11)



----- Temperature rise on the internal surface of the specimen cladding board not exposed to fire (Ti15)



---- Temperature rise on a stud flange furthest from fire (Ti16)



---- Temperature rise on a stud flange furthest from fire (Ti19)



---- Temperature rise on a stud flange furthest from fire (Ti22)



TABLE OF PERCENTAGE DEVIATION "de"



Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
0	30	0,0	//
1	328	-0,3	//
2	414	-4,5	//
3	520	-3,1	//
4	566	-0,8	//
5	585	0,1	15,0
6	618	0,5	15,0
7	651	1,0	15,0
8	673	1,5	15,0
9	681	1,8	15,0
10	692	1,9	15,0
11	703	1,9	14,5
12	713	1,8	14,0
13	724	1,7	13,5
14	733	1,6	13,0
15	743	1,6	12,5
16	756	1,5	12,0
17	773	1,5	11,5
18	790	1,6	11,0
19	801	1,7	10,5
20	805	1,8	10,0
21	806	1,8	9,5
22	810	1,8	9,0
23	812	1,8	8,5
24	815	1,8	8,0





Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
25	817	1,7	7,5
26	819	1,7	7,0
27	823	1,6	6,5
28	826	1,5	6,0
29	829	1,4	5,5
30	832	1,3	5,0
31	836	1,2	4,9
32	839	1,1	4,8
33	842	1,0	4,8
34	846	0,9	4,7
35	850	0,8	4,6
36	854	0,7	4,5
37	856	0,6	4,4
38	859	0,6	4,3
39	863	0,5	4,3
40	864	0,4	4,2
41	866	0,3	4,1
42	868	0,2	4,0
43	881	0,2	3,9
44	893	0,1	3,8
45	903	0,1	3,8
46	907	0,1	3,7
47	912	0,1	3,6
48	915	0,1	3,5
49	921	0,1	3,4



Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
50	924	0,1	3,3
51	927	0,2	3,3
52	932	0,2	3,2
53	936	0,2	3,1
54	941	0,2	3,0
55	943	0,2	2,9
56	947	0,3	2,8
57	951	0,3	2,8
58	954	0,3	2,7
59	958	0,3	2,6
60	960	0,3	2,5
61	963	0,4	2,5
62	965	0,4	2,5
63	966	0,4	2,5
64	968	0,4	2,5
65	969	0,4	2,5
66	970	0,5	2,5
67	972	0,5	2,5
68	973	0,5	2,5
69	974	0,5	2,5
70	975	0,5	2,5
71	976	0,5	2,5
72	976	0,5	2,5
73	978	0,5	2,5
74	978	0,5	2,5





Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
75	980	0,5	2,5
76	980	0,5	2,5
77	981	0,5	2,5
78	983	0,5	2,5
79	984	0,4	2,5
80	984	0,4	2,5
81	985	0,4	2,5
82	988	0,4	2,5
83	988	0,4	2,5
84	989	0,4	2,5
85	989	0,4	2,5
86	990	0,3	2,5
87	991	0,3	2,5
88	992	0,3	2,5
89	993	0,3	2,5
90	997	0,3	2,5
91	1003	0,3	2,5
92	1006	0,3	2,5
93	1009	0,3	2,5
94	1010	0,2	2,5
95	1008	0,2	2,5
96	1011	0,2	2,5
97	1013	0,2	2,5
98	1010	0,2	2,5
99	1011	0,2	2,5



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Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
100	1014	0,2	2,5
101	1016	0,2	2,5
102	1017	0,2	2,5
103	1017	0,2	2,5
104	1019	0,1	2,5
105	1021	0,1	2,5
106	1023	0,1	2,5
107	1023	0,1	2,5
108	1026	0,1	2,5
109	1026	0,1	2,5
110	1023	0,1	2,5
111	1021	0,1	2,5
112	1023	0,0	2,5
113	1023	0,0	2,5
114	1017	0,0	2,5
115	1015	0,0	2,5
116	1016	0,0	2,5
117	1016	-0,1	2,5
118	1018	-0,1	2,5
119	1024	-0,1	2,5
120	1028	-0,1	2,5
121	1030	-0,2	2,5
122	1032	-0,2	2,5
123	1032	-0,2	2,5
124	1031	-0,2	2,5



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Time	Test furnace heating curve actually obtained during the test	Percentage deviation "d _e " in the area of the curve recorded during the test from the area of the standard curve	Tolerance limit
[min]	[°C]	[%]	[%]
125	1027	-0,2	2,5
126	1029	-0,3	2,5
127	1031	-0,3	2,5
128	1031	-0,3	2,5
129	1032	-0,3	2,5
130	1044	-0,3	2,5
131	1052	-0,3	2,5
132	1058	-0,3	2,5
133	1061	-0,3	2,5
134	1061	-0,3	2,5





SPECIMEN PHOTOS



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Pre-test photo of the specimen's exposed face



Pre-test photo of the specimen's unexposed face





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After-test photo of the specimen's exposed face



After-test photo of the specimen's unexposed face



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<u>Test result</u>

Reference	Performance criterion	Description	Result
Clause 11.2 of standard UNI EN 1363-1:2001	Integrity	Cotton pad	> 134 min
		6 mm gap gauge	> 134 min
		25 mm gap gauge	> 134 min
		Sustained flaming	> 134 min
Clause 11.3 of standard UNI EN 1363-1:2001	Inculation	Thermocouples 1-11	> 134 min
	insulation	Roving thermocouple	134 min

Field of direct application of test results

In accordance with standard UNI EN 1364-1:2002, permissible changes to the test specimen are specified in the following table.

Type of change	Relevant clause of standard UNI EN 1364-1:2002	Possibility of change
Decrease in height	13.1 a)	Permitted
Increase in the thickness of the wall	13.1 b)	Permitted
Increase in the thickness of component materials	13.1 c)	Permitted
Decrease in linear dimensions of boards or panels but not thickness	13.1 d)	Permitted
Decrease in stud spacing	13.1 e)	Permitted
Decrease in distance of fixing centres	13.1 f)	Permitted
Increase in the number of horizontal joints when tested with one joint not more than 500 mm from the top edge	13.1 g)	Permitted

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Type of change	Relevant clause of standard UNI EN 1364-1:2002	Possibility of change
The use of surface fittings and fixtures when tested as illus- trated in figure 10 with the fixture or fitting not more than 500 mm from the top edge	13.1 h)	Not allowed
Horizontal and/or vertical joints, of the type tested	13.1 i)	Permitted
Extension of width	13.2	Permitted
Extension of height to 4 m	13.3	Permitted
Standard supporting constructions	13.4.1	Not applicable
Non-standard supporting constructions	13.4.2	Not applicable

This report details the method of construction, the test conditions and the results obtained when the specific element of construction described herein was tested following the procedure outlined in standard UNI EN 1363-1:2001. Any significant deviation with respect to size, constructional details, loads, stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

Test Technician: Dott. Geol. Franco Berardi

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