

# W I N T E C H

WINDOW AND CLADDING  
TESTING & LABORATORY  
SERVICES

## Technical Report

Report No. R10201-2



2223

**ETEM Building Systems**  
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**P.O. Box 115**  
**Sofia**  
**1220**  
**Bulgaria**

### Project

**ETEM Forte Undercut Rainscreen – Systems Test**

**CWCT Test Sequence**

**Project Ref. 10201**

**14<sup>th</sup> February 2011**

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Testing Conducted by: Wintech Engineering Ltd  
Halesfield 2  
Telford  
Shropshire  
TF7 4QH

Test Conducted at: Above Address

Test Conducted for: ETEM Building Systems

Standards Specified: CWCT Test Methods for Building Envelopes – Dec 2005;  
Sections 7, 11, 12 & BS8200  
as per method statement DPP/MW/D-10/3765 dated 28<sup>th</sup>  
October 2010

The Test Sequence  
was Witnessed Wholly  
or in Part by:

Project No: 10201

Dates of Final  
Test Sequence: 8<sup>th</sup> & 9<sup>th</sup> February 2011

Product/System Tested: ETEM Forte Undercut

Tests Performed: As Listed in Section 5 – Test Procedures

Final Test Sequence  
Conducted by: D Price, D Reynolds, D Potts, E Macey & M Cox


Report Compiled by:

D Price 

Testing Supervised by:

M Cox   
Works Director

Technical Approval:  
(Authorising Signatory)

M Wass   
Deputy Quality & Technical Manager

## 1. INTRODUCTION

This report describes tests conducted at the test site of Wintech Engineering Ltd on a sample of Rainscreen, on behalf of ETEM Building Systems.

The following test sequence was conducted on the 8<sup>th</sup> and 9<sup>th</sup> February 2011 in order to determine the weather tightness of the sample with respect to water penetration, wind and impact resistance. The test methods were in accordance with the following standards, and testing was conducted at the request of ETEM Building Systems.

### CWCT Standard Test Methods for Building Envelopes - December 2005

Water Penetration – Dynamic Aero Engine	CWCT Section 7
Wind Resistance – Serviceability	CWCT Section 11
Wind Resistance – Safety	CWCT Section 12
Impact – Safety (Hard & Soft body)	BS 8200

Testing was conducted in accordance with the following Method Statement; DPP/MW/D-10/3765 dated 28<sup>th</sup> October 2010 by Wintech Engineering Ltd.

Wintech Engineering Ltd is accredited by the United Kingdom Accreditation Service as UKAS Testing Laboratory No. 2223.

The test sample was supplied and erected on to the test chamber by ETEM Building Systems.

## 2. SUMMARY OF TEST RESULTS

The following summarises the results of tests carried out. The sample was tested in the following sequence and the associated results are as follows;

	Peak Test Pressure	Result	Date of test	Category
Test 1 – Water Penetration (Dynamic Aero Engine)	600 Pa	Pass	08.02.11	-
Test 2 – Wind Resistance (Serviceability)	2400 Pa	Pass	09.02.11	-
Test 3 – Wind Resistance (Safety)	3600 Pa	Pass	09.02.11	-
Test 4a – Impact Resistance (Retention of performance of exterior wall surfaces) - External		Pass	09.02.11	B
Test 4b – Impact Resistance (Safety to persons) - External		Pass	09.02.11	B

The test sample successfully passed all of the above CWCT test requirements and all tests are either equal to or in excess of the requirements for current BS EN Standards for Curtain Walling

**THESE RESULTS ARE VALID ONLY FOR THE CONDITIONS UNDER WHICH THE TEST WAS CONDUCTED**