

W I N T E C H

WINDOW AND CLADDING
TESTING & LABORATORY
SERVICES

Technical Report

Report No. R10201



2223

ETEM Building Systems

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Project

ETEM Vario Undercut Rainscreen – Systems Test

CWCT Test Sequence

Project Ref. 10201

4th 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 28th
October 2010

The Test Sequence
was Witnessed Wholly
or in Part by:

Project No: 10201

Dates of Final
Test Sequence: 26th January 2011

Product/System Tested: ETEM Vario Undercut

Tests Performed: As Listed in Section 5 – Test Procedures

Final Test Sequence
Conducted by: D Price, D Reynolds & 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 26th January 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 28th 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	26.01.11	-
Test 2 – Wind Resistance (Serviceability)	2400 Pa	Pass	26.01.11	-
Test 3 – Wind Resistance (Safety)	3600 Pa	Pass	26.01.11	-
Test 4a – Impact Resistance (Retention of performance of exterior wall surfaces) - External		Pass	26.01.11	B
Test 4b – Impact Resistance (Safety to persons) - External		Pass	26.01.11	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