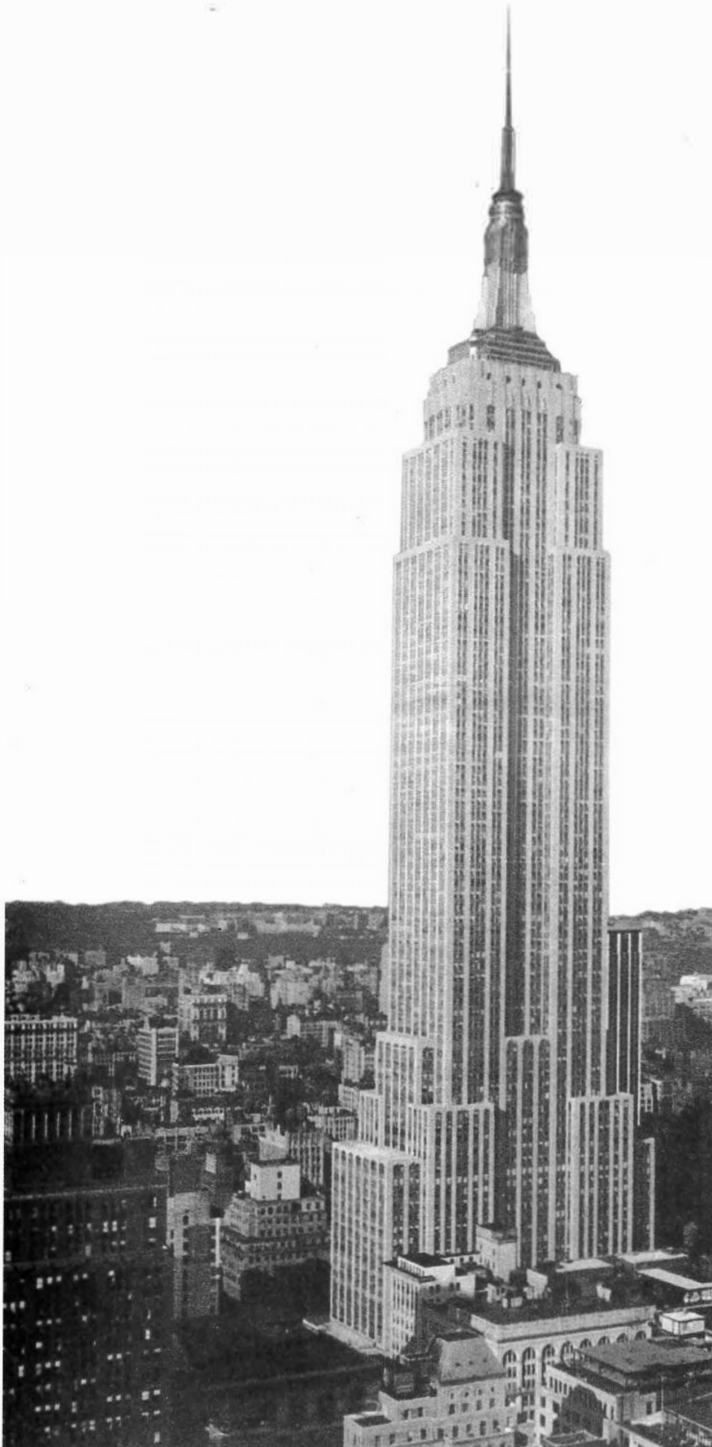


Pull Out Tests for Cintec Anchors carried out on the EMPIRE STATE BUILDING, NEW YORK



The Cintec Anchors were installed on December 8th, 1994 at the 6th floor elevation by David Aston from CLS Cintec America in the presence of Mr. R. Wagner LZA Technology and Mr. A. Destefano of Empire National. $\frac{1}{2}$ " \varnothing RAC anchors were used being of different lengths.

Type 1 overall length 3 $\frac{3}{4}$ " socked 2 $\frac{3}{4}$ " for testing in 4" thick limestone panels.

Type 2 overall length 7 $\frac{3}{4}$ " socked 6 $\frac{3}{4}$ " for testing in 8" thick limestone panels.

Type 3 overall length 11 $\frac{3}{4}$ " socked from the rear for testing the brick back up wall.

Testing was carried out 8 days after installation by David Aston, in the presence of Mr. R. Wagner using a Mark IV Hilti Test Meter Serial No. 01632.

The loads achieved are set out on the test date result sheet overleaf. It should be noted at the achieved loads there were no failures or any visible damage to the areas surrounding the test anchors.

**Cintec America Inc, 11311 Mc Cormick Road Suite 500
Hunt VALLEY
Maryland 21031 Tel 1+410-761-0765**

**Cintec Reinforcement systems Ltd, 38 Auriga drive ,
Suite 200 ,Nepean, On Canada K2E8A5
Tel 1+613-225-3381 fax 1+613-224-9042**

COMPANY ADDRESS
LZA TECHNOLOGY 641 AVENUE OF THE AMERICAS NEW YORK NY 10011

TEST ANCHORS & RESULTS

Date: 16/12/94

SITE ADDRESS
EMPIRE STATE BUILDING 5 TH AVENUE NEW YORK

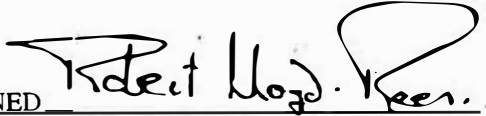
TEST REQUIRED	TEST NO	INSTALL TIME	TYPE OF ANCHOR	LOAD REQUIRED	LOAD ACHEIVED	BASE MATERIAL	STOCK IMBEDMENT	STOCK DIAMETER	PULLOUT TIME
1) To Test Brick Facade	1	20 mm	3/8" Solid Bar	1000lbs	3200lbs	STONE	2 3/4"	1"	10 MINS
	2	20 mm	3/8" Solid Bar	1000lbs	2800lbs	STONE	2 3/4"	1"	10 MINS
2) To Secure Brick Facade on 6th Floor	3	20 mm	3/8" Solid Bar	1000lbs	3200lbs	STONE	6 3/4"	1"	15 MINS
	4	20 mm	3/8" Solid Bar	1000lbs	3150lbs	BRICK	6"	1"	10 MINS
	5	20 mm	3/8" Solid Bar	1000lbs	3000lbs	BRICK	6"	1"	10 MINS

PERSONS PRESENT ON TEST / DEMONSTRATION

PRINT NAME	COMPANY	POSITION	PHONE NUMBER
MR ROBERT WAGNER	LZA TECHNOLOGY	SENIOR PROJECT DIRECTOR	212 741 1300

COMMENTS:

It should be noted that at the achieved loads no failure of the anchors was observed, in addition there was no visible damage to the areas surrounding the test anchors.

SIGNED 
FOR & ON BEHALF OF CAVITY LOCK SYSTEMS LTD
POSITION:- CLS NORTH AMERICA

CLS CINTEC CANADA LTD.
38 Auriga Drive, Suite 200
Nepean, Ont. K2E 8A5
613-225-3381

SIGNED 
FOR & ON BEHALF OF LZA TECHNOLOGY
POSITION:- SENIOR PROJECT DIRECTOR