

X-Tite ResiLoc EX1

High viscosity epoxy resin anchor

Product Description

X-Tite ResiLoc EX1 is a pure epoxy resin grout use for general purpose horizontal and vertical anchoring in rock, concrete, brick or solid masonry.

Advantages

- Slow set
- Long working time
- High tensile strength
- Resistant to a wide range of chemicals
- Vibration resistant
- Styrene free
- Dimensionally stable
- Easy to use

Uses

- Starter bars
- Anchor bolts
- Threaded studs

Laboratory Test Data

Property	Results
Color	Grey
Soild Content	100%
Specific Gravity	2±0.05gm/cm ³
Mixing Ratio	12:1
Pot Life	2hrs
Initial Setting Time	8hrs
Final Setting Time	24hrs
Full Hardness	7 Days
Compressive strength (BS 6319 Part 2)	>60MPa at 7 days
Tensile strength (BS 6319 Part 3)	>16MPa at 7 days
Rate of Use	2Kg/m ² /1mm

Packaging

1 & 5Kg pack.

Shelf Life

18 months when stored at 5 to 30C or less in a frost-free, dry and shaded area.

Installation Guidelines

NCC X-Calibur provides detailed method statements for all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Hole Preparation

Anchor bolt holes should be drilled using air or rotary percussive drilling equipment. If diamond core or non-percussive drills are used then the sides of the hole must be thoroughly roughened.

Cleaning the hole

Drilling debris and dust must be thoroughly cleaned from the hole using a stiff nylon bottle brush and clean compressed air and/or clean water. If water is used, the hole may be left damp or even full of water, but the water and the sides of the hole must be clean.

Mixing

Thoroughly mix the base prior to adding the hardener using a slow speed drill (500rpm) fitted with an approved NCC X-Calibur mixing paddle. After mixing the base, add all of the hardener to the base and mix for 1 minute until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

Application

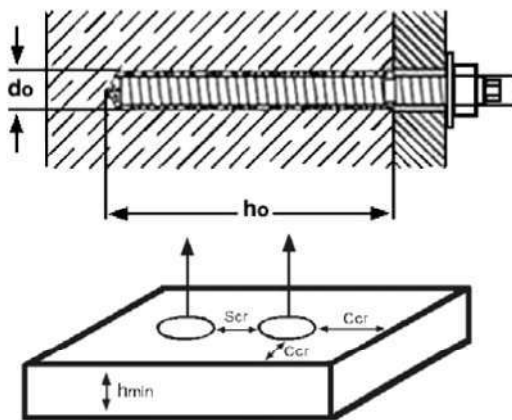
Place the mixing material into a barrel gun with a suitable nozzle to the size of hole to be filled and insert the nozzle in to the base of the hole and fill the hole while bring the nozzle of out of the hole then insert the bar using a slightly twisting motion.

Clean Up

Drilling debris and dust must be thoroughly cleaned from the hole using a stiff nylon bottle brush and clean compressed air or blow pump.

Load Capacity Data for all Thread Studs

Stud diameter	d (mm)	8	10	12	16	20
Hole diameter	d _o (mm)	10	12	14	18	24
Hole depth	h _o (mm)	80	90	110	125	170
Required close edge distance (tension) to achieve N _{rec}	C _{cr} (mm)	120	135	165	190	255
Required anchor spacing (tension) to achieve N _{rec}	S _{cr} (mm)	160	180	220	250	340
Min. concrete member thickness	h _{min} (mm)	110	120	140	165	220
Characteristic tensile load in min. 30N/mm ² concrete	N _{rk} (kN)	29.3	40.3	59.6	90.8	111.1
Recommended tensile load in min. 30N/mm ² concrete	N _{rec} (kN)	9.8	13.4	19.9	30.3	37.0



- d stud or bar nominal diameter (mm)
- d_o drilled hole diameter (mm)
- h_o hole depth (all thread) (mm)
- h_{ef} effective bond length (rebar) (mm)
- C close edge distance (mm)
- S anchor spacing (mm)
- C_{cr} required close edge distance to achieve N_{rk}
- S_{cr} required anchor spacing to achieve N_{rk}
- h_{min} minimum concrete member thickness (mm)
- f_{cm} concrete compressive strength (N/mm²)

Load Capacity for Reinforcing Bar Anchors

Equations for tensile and shear load capacities

Tension: $N_{RK} = (h_{ef} - 50) / 2.0$ Shear: $V_{RK} = (h_{ef} \cdot d_o \cdot f_{cm}) / 1000$ ($f_{cm} \leq 50$)

Recommended hole diameters (d_o)

Bar dia. d	6	8	10	12	16	20	25	32
Min hole dia. d _o	8	10	12	14	20	25	32	38
Max hole dia. d _o	10	14	16	20	25	30	38	42

Concrete Capacity Reduction Factors

Close edge, tension

$$R_{f_{cN}} = 0.4(C/h_{ef}) + 0.4 \leq 1 \quad (\text{Valid for } 0.5 \leq [C/h_{ef}] \leq 1.5)$$

Close spacing, tension

$$R_{f_{sN}} = 0.25(S/h_{ef}) + 0.5 \leq 1 \quad (\text{Valid for } 0.25 \leq [S/h_{ef}] \leq 2.0)$$

Close edge, shear

$$R_{f_{cV}} = 0.6(C/h_{ef}) - 0.2 \leq 1 \quad (\text{Valid for } 0.5 \leq [C/h_{ef}] \leq 2.0)$$

Close spacing, shear

$$R_{f_{sV}} = 0.1(S/h_{ef}) + 0.4 \leq 1 \quad (\text{Valid for } 1.0 \leq [S/h_{ef}] \leq 6.0)$$

Close spacing in shear must be considered if $S < 3C$ and when $C < 2h_{ef}$

N_{rk} anchor characteristic load, tension (kN)

V_{rk} anchor characteristic load, shear (kN)

N_{rec} anchor recommended load (kN)

R_{f_{cN}} close edge reduction factor, tension only

R_{f_{cV}} close edge reduction factor, shear only

R_{f_{sN}} close spacing reduction factor, tension only

R_{f_{sV}} close spacing reduction factor, shear only

Notes on Load Capacity Data

Quoted values for N_{rk} are corrected to f_{cm} = 30, according to the ETAG 'Metal Anchors for use in Concrete'. The equations for calculating the values of the (unfactored) characteristic loads N_{rk} and V_{rk} for reinforcing bar assume f_{cm} ≤ 30. All load capacity equations and values assume adequate steel strength: All thread stud tests were carried out on grade 8.8 steel. Hole diameters for reinforcing bar assume UK C.A.R.E.S. approved bar, grade 460; the use of bars with a high rib pattern could call for larger diameter holes, and tests may be required to determine the characteristic loads.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg.

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemicals **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemicals shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

Method Statement

X-Tite ResiLoc EX1, General Use

1.0 Labor

Anchoring should only be carried out by experienced workers who have received training from the manufacturer. Application by unskilled labor may result in unsafe installation.

2.0 Hole Preparation

Anchor bolt holes should be drilled using air or rotary percussive drilling equipment. If diamond core or non-percussive drills are use, then the sides of the hole must be thoroughly roughened. Holes less than 91cm (36") deep should not be more than 12mm (1/2") larger in diameter than the diameter of anchor bar or bolt. Anchor bolts longer than 91cm (36") can have a hole diameter 20mm (3/4") larger than the bar or bolt diameter.

3.0 Hole Cleaning

Drilling debris and dust must be thoroughly cleaned from the hole using an X-Tite Cleaning Brush and clean compressed air and/or clean water. If water is used, the hole may be left damp or even full of water, but the water and the sides of the hole must be clean.

4.0 Installation

Attach the mixer nozzle to the cartridge, place in applicator gun and dispense the first part of the cartridge to waste until an even color is achieved.

Insert mixer nozzle to far end of the hole and half fill hole, Withdraw nozzle as you fill. For deep holes, a nozzle extension should be used.

Immediately after filling insert the fixing slowly using a slight, twisting motion to displace any trapped air. Excess resin should be removed from the mouth of the hole before it sets.

Leave the fixing undisturbed until loading time has elapsed (see table below), then attach the fixture and tighten the nut or splice the reinforcing bars

Gel and Loading Times

Temp.		Gel Time (mins)	Loading Time (mins)
°C	°F		
0	32	32	180
5	41	18	90
20	68	5	40
30	86	2.5	25

5.0 Cleaning

Tools should be cleaned immediately after use, before the resin sets, using X-Shield Solvent. Once the resin has set it can only be removed by mechanical means.

6.0 Pull Out Testing

On-site pull out testing should always be performed to determine the actual performance prior to use. The pull out value is dependent on many variables including the type and strength of the substrate, length of embedment of the bar or bolt, and temperature.

7.0 Limitations

Will change color when exposed to direct sunlight.

Do not apply below 5°C or above 35°C.

Avoid skin contact.

Do not dispose of into the water system.

8.1 Safety

This product is for industrial use only by trained operatives.

This product is potentially hazardous if not used correctly.

Please refer to the Material Safety Data Sheet (MSDS) before use.

Operatives should use barrier creams when handling the powder component.

Care should be taken not to allow polyester materials to come into contact with skin.

Operatives should use the following personal protection equipment:

- Eye protection
- Safety helmet
- Gloves
- Rubber soled safety shoes
- Coveralls

When using electrical equipment such as mixers ensures that they are properly fused and earthed with the correct plug and sockets fitted.

Do not use electrical equipment if it will come into contact with water.

When using forced action mixers the operators must have been fully trained in its use and use all safety guards

9.0 Authorized Technical Specialist

Please note only X-Calibur Authorized Technical Specialists ("ATS") are permitted to change any of the information in this method sheet or to provide written recommendations concerning the use of this product.

10.0 Warranties

X-Calibur supplies products that comply with the properties shown on the current datasheet. In the unlikely event that products supplied are proved not to comply with the properties, then we will replace the non-compliant product or refund the purchase price.

X-Calibur does not warrant or guarantee the installation of the products, as it does not have control of the installation or end use of the product. Any suspected defects must be reported to X-Calibur in writing within five working days of being detected.

X-Calibur Construction Systems Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

Pull Out Test Result

Date :03-12-2023
Project : Sooq elgomla / mustaqbal masr -project
From : Concrete Surgeons
To : REDCON Construction company.
Subject : Pull Out Test Result

Test whitiness:

Consultant: CEGMAN Consultant

Main Contractor: REDCON Construction Company.

On **Sunday ,December ,03-12- 2023** the **Pull Out Test** was tested on **1 rebar 12 mm** diameter, **120 mm** depth Planting bar glue is **X-TITE Resiloc EX1**.

The pull out test result was as follows:

Material: (X-TITE Resiloc EX1)

Rebar no.	Rebar dia (mm)	drilling hole(mm)	embedment depth(mm)	Tensile FORCE/T on	Material
1	12	14	120	12	X-TITE Resiloc EX1

The test was carried by Concrete Surgeons Company, Results as shown in the previous table/s, it is presented to whom it may concern.

Technical Office
Eng. Hamada Elkassas



Satco Lab.co.

For Trading & Contracting



شركة ساتكو لاب
للتجارة والمقاولات

CALIBRATION CERTIFICATE

DATE OF CALIBRATION : 13/09/2023
DATE NEXT DUE : 13/09/2024
CLIENT : GARRAHI FOR CONCRETE
PROJECT : CENTRAL LAB
FOR : PLATE BEARING TEST APPARATUS
PRESSURE GAUGE:

TYPE : HI-FORCE SERIAL NO. : 5431227395
MODEL : EN837-1 CAPACITY : 33TON

HYDROLIC JAK:

TYPE : HI-FORCE MODEL: HP-110

SERIAL NO. : D09390

CALIBRATION APPARATUS USED : ELE LOAD COLUMEN

LOAD COLUMEN SERIAL NO : 1052-12-4129

TEMPERATURE DURING THE TEST PRECESS : 33 C

ATTACHED IS THE TEST RESULT FOR: 33 TON GAUGE

GAUGE READING TON	TEST.1 TON	TEST.2 TON	TEST.3 TON	AVERAGE IN TON
5	4.997	4.997	4.997	4.997
10	9.994	9.994	9.994	9.994
15	15.00	15.00	15.00	15.00
20	19.99	19.99	19.99	19.99
25	24.77	24.77	24.77	24.77

TECHNICAL REPORT:

ALL THE MEASURED VALUES ARE WITHIN PERMISSIBLE LIMITS

THERE IS NO NEED FOR CORRECTION FACTOR

ERROR = NEARLY ZERO

TESTED BY: **ENG. SAMEH ABD EL MONIEM**



Head office: 11 Ideal Bldgs, Autostrad Road - Frot of
Arab Contracors Sporting club, Nasr City, Egypt Telefax: 23422251
Mob: 01229196333 - 01009770624 - 01152455529

Branch office: Villa 11 Jasmine 3 Ahmed Shawky Street, off the
northern ninety, next to the youth tray Mob: 01033044440

المكتب الرئيسي: 11 عمارة ايلديال - طريق الأوتستراد - أمام نادي المقاولين
العربيا الرياضي - مدينة نصر - القاهرة ت / فاكس: 23422251
موبايل: 01229196333 - 01009770624 - 01152455529
المكتب الفرعي: فيلا 11 الياسمين 3 شارع احمد شوقي متفرع من التسعين الشمالي
بجوار صياحة الشباب - التجمع الخامس موبايل: 01033044440



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Test Lab.

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وحدة التحليل و الخدمات العلمية المركزية
معمل اختبار المواد



Test Report

Report No.

Client

Authority & date

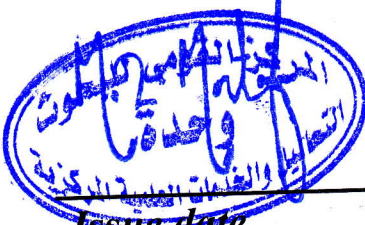
Items Tested

Results

Report Typist

Test carried by

Authorized by



Issue date

**Condition of Test
& Issue**

MO1 4571 05 2024

NCC X-Calibur construction chemistry

Request Orders 22/5/2024

X-Tite Resiloc EX1

The detailed test results are given on the following pages of this report (4 pages) .

- * **Mis. Naglaa Mohamed-Sara Abdel Reheam**
Noha Samir
- * **Mis . Fatma El Zahraa Fikry**
- * **H.Eng. Ahmed Said**
- * **Chem. Amr El Shafey**
- * **Dr. Abou El Ftouh Abd El Hakem**

Prof. Dr. Mostafa Zaki Mostafa

- * **The Supervisor of ceramics, Polymer and Solid Matter Department.**
- * **Manàgement Representative and Quality Assurance Manager.**

6/6/2024

The test speciemen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .





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وحدة التحاليل والخدمات العلمية المركزية
معمل اختبار المواد



TO/ NCC X-Calibur construction chemistry

Dear Sir.,

With correspondence to your request dated 22/5/2024 concerning the testing sample of X-Tite Resiloc EX1 , We would like to inform you that the all following needed tests were carried out which namely:

- 1- **Compressive strength test after 7days according to ASTM C579**
- 2- **Tensile strength test after 7days according to ASTM D638**
- 3- **Density test according to ASTM D792**
- 4- **Solid content test according to ASTM D2369**

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

- 1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .
- 2- Measuring drum of sensitivity $\pm 0.01mm$ was used for dimensions evaluation.
- 3- On heating a Memmert West Germany oven was used .
- 4- Weighing Balance with tolerance + 0.0001 g was used in determining the weights .
- 5- All used Machineries and apparatuses were calibrated periodically.

The following tables give the obtained results representing the sample delivered from your company .





NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Testing Lab

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معمل إختبار المواد



Delivered from NCC X-Calibur construction chemistry

1- Compressive strength test after 7days according to ASTM C579

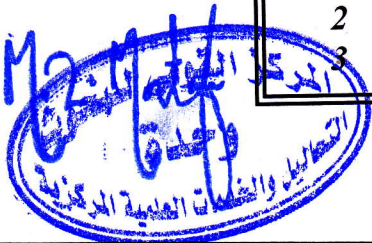
No.	Compressive strength (N/mm ²)	The mean value (N/mm ²)
1	70.82	69.44
2	68.98	
3	67.11	
4	70.73	
5	69.58	

2- Tensile strength test after 7days according to ASTM D638

No.	Tensile strength (N/mm ²)	The mean value (N/mm ²)
1	18.01	16.96
2	16.93	
3	17.11	
4	16.55	
5	16.19	

3- Density test according to ASTM D792

No.	Tensile strength (g/cm ³)	The mean value (g/cm ³)
1	1.793	1.795
2	1.785	
3	1.807	





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4- Solid content test according to ASTM D2369

Solid content = 99.89%

*This report was given to you representing only the results for the testing sample of X-Tite Resiloc EX1, Delivered from NCC X-Calibur construction chemistry , These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB** in **THE NATIONAL RESEARCH CENTRE** for pick up the samples to be tested .*

**Head of Director of The Board of Central Department
for Scientifical Analysis and Tests**

&

**SUPERVISOR
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA



رقم التقرير : H 0059/2018

التاريخ : ٢٠١٨/ ٣ / ١

تقرير عن نتائج اختبار اقتلاع عينات من أسياخ التسليح المزروعة بالخرسانة

العميل : شركة نيوكونستراكتن كيميكال
المشروع :

ورد إلى وحدة أبحاث خواص واختبار المواد و ضبط الجودة - كلية الهندسة جامعة عين شمس - خطاب من شركة نيوكونستراكتن كيميكال بخصوص اجراء اختبار الاقتلاع على أسياخ من الصلب المزروعة داخل خرسانة.

نتائج الاختبار

تم اجراء اختبار الاقتلاع بتاريخ ٢٠١٨/٢/٢٨ في موقع المشروع على عدد (٧) عينات أشاير أسياخ صلب التسليح ذات الفتوات المزروعة بالخرسانة وذلك بتحميل السيخ في الشد (اقتلاع) وكانت نتائج الاختبارات كما يلي :

م	كود العينة	العنصر الانشائي	قطر السيخ الاسمي (مم)	اتجاه العينة	طول التزريع (سم)	حمل الإختبار (طن)	شكل الانهيار
١	عينة ١	حوائط	١٢,٠	أفقي	---	٧,٠	كسر في السيخ
٢	عينة ١		١٢,٠		كسر في السيخ		
٣	عينة ١		١٢,٠		كسر في السيخ		
٤	عينة ١		١٢,٠		كسر في السيخ		
٥	عينة خارجية ١		١٢,٠		انزلاق السيخ من الخرسانة		
٦	عينة خارجية ١		١٢,٠		انزلاق السيخ من الخرسانة		
٧	عينة ١	قاعدة	١٢,٠	رأسي	---	٧,٠	كسر في السيخ

تم إجراء الإختبار في حضور كلا من:

(٢) م/ مينا سمير صبحي (شركة نيوكونستراكتن كيميكال)

(١) م/ احمد علي سالم (شركة نيوكونستراكتن كيميكال)



راجع التقرير
د. محمد الجليلي

اعد التقرير
م / طه الدليل

SYSTRA



المهندسون الإستشاريون العرب
محرم - باخوم

الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR TUNNELS
(NAT)



الهيئة العامة
للطرق والكباري والنقل البري

GENERAL AUTHORITY
FOR ROADS, BRIDGES
AND LAND TRANSPORT (GAART)



HASSAN ALLAM
ROADS & BRIDGES

MATERIAL SUBMITTAL (Civil)

Project Title:	ELECTRIC EXPRESS TRAIN (PASSENGERS AND CARGO) FROM EL AIN EL SOKHNA CITY ON THE RED SEA COAST TO NEW EL ALAMEIN CITY ON THE MEDITERRANEAN COAST		
Project scop:	FROM ST. 149+00 TO ST. 146+00	Date:	11/01/2022
Contract No.:	0	Ref. No.:	MS/CIVIL/HA/HST/0006
From:	H.A.	To:	ACE
MANUFACTURER:	NCC X-CALIBUR		
SUBCONTRACTOR:	NCC X-CALIBUR		
BRAND:	X-TITE RESILOEC EX1		
SUPPLIER	NCC X-CALIBUR		
DISCRIPTION:	HIGH VISCOSIT EPOXY RESIN ANCHOR		
LOCATION TO BE USED:	DOWEL FIXATION BAR DIA 8 , 10 , 12 , 16 , 20 MM		
COMMENTS:	BAR DIA 8 , 10 , 12 , 16 , 20 MM		
SPECS REF. No.:		BOQ REF. No.	
DATE OF SUBMISSION :			
SAMPEL	<input type="checkbox"/>	TECHNICAL DATA	<input type="checkbox"/>
FOR APPROVAL	<input type="checkbox"/>	TEST REPORT	<input type="checkbox"/>
		FOR INFORMATION	<input type="checkbox"/>
PROJECT MANAGER	Eng./ ISLAM SAEED	SIGNATURE	

CONSULTANT COMMENTS:

دا نا دفع مع ارسال عينات للاختبار قبل التوريد

ACTION:

A = Approved	<input type="checkbox"/>	B = Approved As Noted	<input checked="" type="checkbox"/>
C = Revise and resubmit	<input type="checkbox"/>	D = Rejected	<input type="checkbox"/>

CONTRACTOR:		CONSULTANT:
Technical Office	QA/QC DEP.	Name:
Name: Eng./AMR MENSRAWY	Eng.Mohamed Khalil	Designation
Designation: T.O. HEAD	Quality Manager	Signature:
Signature:		Date:
Date:	11/01/2022	

Material submittal

طلب اعتماد مواد

إلى الإستشاري :- جماعة المهندسين الإستشاريين & شاعر ECG&SCG
من المقاول العام : شركة دار العالمية للتشيد والبناء DAR AL-ALAMIA

رقم الطلب: MS-BM-DAA-2596-STR-0022
الإصدار: 0
التاريخ: 19/5/2020


الموضوع: اعتماد مادة تزييع لاشاير الحديد المستخدمة في الشمع وكمر الربط في اعمال المباني X-TILE -RESILOC-EX1


المورد: NCC
المصنع: X-CALIBUR


نوع الاعمال: إنشائي معماري كهرباء ميكانيكا مساحة اخرى مواصفات كتالوجات بيانات فنية عينات اخرى

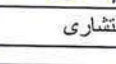
م	البيان / الوصف	الكود
1	اعتماد مادة تزييع لاشاير الحديد المستخدمة في الشمع وكمر الربط في اعمال المباني X-TILE -RESILOC-EX1	


تعهد المقاول: المستندات المرفقة تنسيقها ومراجعتها من حيث تطابقها مع العقد وتعتبر مقبولة للاستخدام في المشروع من قبل المقاول

المقاول: 

مدير القسم: 

منسق الوثائق: 

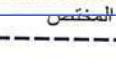
استلام الإستشاري بواسطة: 

التوقيع: 

Material is approved in Principle for **Non-structural element ONLY**; (block work & Lintels above doors & windows) considering the following:
-Pull-out test Results **MUST** be submitted to consultant engineer at site **before delivery** for the case of reinforcement bars.

ملاحظات الإستشاري: 

EGC ENGINEERING CONSULTANTS GROUP S.A
Technical Office Department H.Q.
B: APPROVED AS NOTED
WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED
17-06-2020
Mal-mouad Osama

الإستشاري المختص: 

أ معتمد ج يعاد التقديم مرة اخرى بعد اتمام الملاحظات
ب معتمد مع ملاحظات - يمكن للمقاول ان يستمر بناء على الملاحظات د الطلب مرفوض

اعتماد الإستشاري: م/.....
استلام المقاول: الإستلام بواسطة: بتاريخ:/...../.....
التوزيع قبل الاعتماد: التاريخ:/...../.....
المالك: الإستشاري:
التوزيع بعد الاعتماد: الإستشاري:
المالك: المقاول:
الإستشاري: Q.S. مديني معماري كهرباء تكييف ميكانيكا تخطيط

Submittal for approval of materials

03 OCT 20

RECEIVED

Date: 1/10/2020

Request no: ACB-MAT-SSC-096-REV.00

Project no. & title: PE19568C Agricultural Bank

Employer: 	Engineer:  	Contractor: Arab contractors special buildings administration 
---	--	--

1. Material description (one item only on this form):
 X-Tile Resiloc Ex1 - (High Viscosity Epoxy Anchor For General Purpose Anchoring In Concrete)

Area of application : CAST-IN-PLACE CONCRETE

Drawing ref. : _____ B.O.Q ref. no. : _____

Specification Ref : 033000 Standards : _____

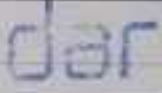
Attachement : (Data sheet)

2. Manufacturer / supplier

Company Name : X-Calibur

Address : New Cairo

Local agent : X-Calibur - Egypt

 Dar Al-Handasah
 Project No. E1510E-24005

Item	Action	Date
A.A	✓	

3. Delivery :

Country of origin : _____

Availability : Locally Manufactured Overseas

Delivery : Ex-works/ total duration [] []

Estimated time of arrival on site [] []

Program : Date material required on site [] []

Latest date for order [] []

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : ENG/ AYMAN HAMDY Signature: 


4. Engineer's Representative comments:

** Subject to all of test at site*

** accepted only for Anchoring RFT. for block work*

** provide the data for him, Sch, etc. is required*

Approved
 Approved as noted
 Revise and resubmit
 Rejected
 Sample required
 Tests required
 Additional information required
 Manufacturer's guarantee required

Signature:  Date: 5/10/20

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.





Material Submittal Request (MSR)

المشروع	الجامعة المصرية اليابانية للعلوم والتكنولوجيا
المالك	إدارة الجامعة المصرية اليابانية للعلوم والتكنولوجيا
مدير المشروع	الهيئة الهندسية للقوات المسلحة - إدارة المهندسين العسكريين
المصمم العام	ISOZAKI, AOKI & ASSOCIATES
الاستشاري العام والمصمم	بيت الخبرة المصري - مدحت أبو زيد
استشاري إدارة المهندسين العسكريين	مكتب د. عمرو عبد الرحمن
مقاول التنفيذ	شركة الغرابي للأعمال الهندسية المتكاملة

الموضوع	اعتماد مادة تزييع حديد تسليح الاشاير و الجوايط X-Rit Resiloc EX1
رقم الطلب والتاريخ	2021/05/6 GRB-MSR-0018-REV00
القسم المختص	معماري إنشائي كهرباء ميكانيكا تكييف صحي حريق

مرسل بواسطة	م / طارق عبد العزيز
التوقيع	الجامعة المصرية اليابانية المرحلة الثالثة GIECO كلية هندسة مبنى B21 , B22 وقاعة محاضرات B31

م	اسم الخامة	اسم المورد	المرفقات
1	X-Rit Resiloc EX1	Ncc-Xcalibur	داتا شيت
2			

ملاحظات:

..... لا مانع من الاعتماد مع الالتزام بالمشورة الفنية وأصول الصناعة ومواصفات المشروع

A = معتمد	B = معتمد مع ملاحظات	C = يعاد التقديم مرة أخرى	D = الطلب مرفوض
-----------	----------------------	---------------------------	-----------------

توقيع المهندس المسؤول من مكتب د/ عمرو عبد الرحمن

ملاحظات:

لا مانع من الاعتماد مع الالتزام بالمشورة الفنية وأصول الصناعة ومواصفات المشروع طبقاً للكمود

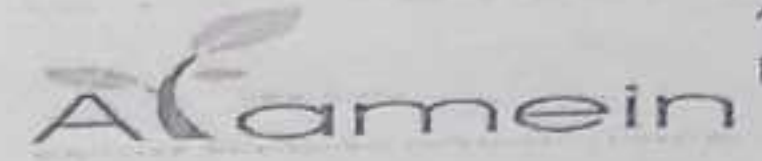
A = معتمد	B = معتمد مع ملاحظات	C = يعاد التقديم مرة أخرى	D = الطلب مرفوض
-----------	----------------------	---------------------------	-----------------

2021/05/18

مشروع الحي اللاتيني



المقاول: جاما للإنشاءات



EGC
ENGINEERING CONSULTANTS GROUP S.A.

الإستشاري: جماعة المهندسين الإستشاريين

المالك: جهاز مدينة العالمين الجديدة
ENGINEERING CONSULTANTS GROUP S.A.
مشروع الحي اللاتيني، مدينة العالمين الجديدة
(مشروع رقم: 2604)
RECEIVED

(Submittal - MAT)

Date: 10/11/2019 Time:

طلب اعتماد مواد

جماما للإنشاءات GAMA	من المقاول العام :	جماعة المهندسين الإستشاريين EGC	إلى الإستشاري :-
-------------------------	--------------------	------------------------------------	------------------

رقم الطلب	MSF-GAMA-ECG-ST-066	الإصدار	0	التاريخ	10-Nov-19
الموضوع	X-Title Resiloc EX1 from NCC			المرفقات	عدد 9 ورقة A4
نوع الاعمال	<input checked="" type="checkbox"/> إنشائي	<input type="checkbox"/> معماري	<input type="checkbox"/> كهرباء	<input type="checkbox"/> ميكانيكا	<input type="checkbox"/> مساحة <input type="checkbox"/> اخرى

م	البيان / الوصف	عدد النسخ	المصنع / بلد الصنع	رمز المواصفات	رمز المقايسة
1	X-Title Resiloc EX1 (High viscosity epoxy resin anchor)	3	NCC		

تعهد المقاول: المستندات المرفقة تنسيقها ومراجعتها من حيث تطابقها مع العقد وتعتبر مقبولة للاستخدام في المشروع من قبل المقاول

المقاول	مدير الجودة
استلام الإستشاري	بواسطة:
التوقيع:	بتاريخ:

ملاحظات الإستشاري

ملاحظة: ان تم تقديم الرضخ من الإستشاري الرائدة من الإستشاري
مديره ان شكله ماريه اراد اربا

الإستشاري المختص	الإعتماد بواسطة:	التوقيع:	بتاريخ:
معتد	معتد	ج	د
معتد مع ملاحظات - يمكن للمقاول ان يستمر بناء على الملاحظات			

اعتماد الإستشاري	استلام المقاول
بتاريخ:	بتاريخ:

التوزيع قبل الاعتماد:	المالك:					
التوزيع بعد الاعتماد:	المالك:					
المقاول	الإستشاري					
مدني	معماري	كهرباء	تكليف	ميكانيكا	تخطيط	Q.S



نموذج اعتماد مواد

رقم مسلسل (ACA-MS-G-Str-17) تعديل (V 00) التاريخ 7 يونيو 2017

مشروع: إنشاء مقر هيئة الرقابة الإدارية بالعاصمة الإدارية الجديدة

الجهة المنفذة: هيئة الهندسة للقوات المسلحة

المالك: - هيئة الرقابة الإدارية

الاستشاري العام: جامعة المهندسين الاستشاريين

المقاول العام: شركة كونكورد للهندسة والتقاولات

م/ أحمد
م/ جمال
م/ أحمد
م/ أحمد

الوصف: X-Tite ResiLoc EX	
<input type="checkbox"/> طبقا للقائمة المعتمدة	<input type="checkbox"/> عينة
<input type="checkbox"/> اقتراح جديد	<input type="checkbox"/> مواد موردة بالموقع
مكان الاستخدام / المبنى: عام مواد إيبوكسية	
بند رقم: صفحة من جداول الكميات	
رقم المواصفة: رقم البند:	
اسم المورد: NCC	
اسم المصنع: X-Calibur	
مرقق:	
<input type="checkbox"/> عينات	
<input type="checkbox"/> كتالوجات	
<input type="checkbox"/> مواصفات	
<input type="checkbox"/> بيانات فنية	
<input type="checkbox"/> بنود ملحقة	
مدير المكتب الفني للمقاول الاسم: م / ابراهيم سيد محمد	
التاريخ: 7 يونيو 2017	
الاسم: <input type="checkbox"/> معتمد	
التاريخ: 2017/...../..... <input checked="" type="checkbox"/> معتمد بملاحظات	
التوقيع: <input type="checkbox"/> معتمد مبدئيا ويعاد التقديم	
التوقيع: <input type="checkbox"/> غير معتمد	
التعليق:	

EGC Engineering Consultants Group
مشروع مبنى هيئة الرقابة الإدارية
(Project: 2399)
RECEIVED
By: Khair Date: 7-6-17



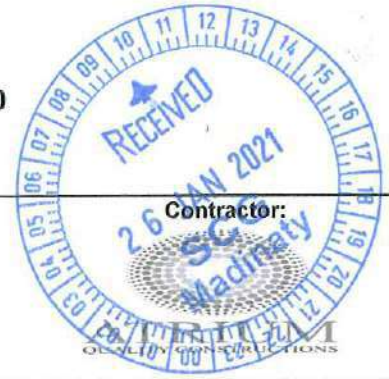
APPROVED AS NOTED
SUBJECT TO THE TERMS AND
CONDITIONS OF CHARGES INDICATED
Date: 13-6-2017

ج م 1 نموذج رقم ت 447 - تعديل صفر/2004

٢ - ٢

Submittal Cover Sheet

Date: 25-Jan-2021
 Reference No.: MD-21-PRV-ATR-SCG-STR-MAT-0002 Rev. 0.00
 Package No. & Title: X-Tite ResiLoc EX1 - NCC - X-caliber



Employer: 	PMC: 	Supervision Consultant: 	Contractor: 
--	---	--	--

1. Document Type

- Material samples Catalogues Tests Technical sheets MOM
 Manufacturer certificates Schedules Drawings RFI Other

2. Transmittal Details

Item no.	Description of items submitted/ quantity	Ref.	Contract doc. Ref. & compliances
1	X-Tite ResiLoc EX1 High viscosity epoxy resin anchor	MD-21-PRV-ATR-SCG-STR-MAT-0002	



These are transmitted for:

- Your information Approval Review & comment Response for RFI Other

Submitted by: Eng. Mona Mohamed Elgebaly

Signature

Submittal for approval of materials

05 FEB 2018

Date: 04-02-18

RECEIVED

Request no: TBL/MAT-ESC-0814-Rev 04 03

Project no. & title: 019106-04003 - Structural Buildings Plot 15A & 15A

Employer 	Engineer dar	Contractor  Alexandria Construction Youssef Mostafa Group
---	------------------------	---

1. Material description (one item only on 09s form)

X-Tite Resin Lo EX

High viscosity epoxy resin anchor

Area of application: All Buildings

Drawing ref: General Notes 08g

Q.C. ref no: 1335

Specification Ref: 1335

Standard: N/A

Attach all relevant technical literature required to clarify material description, current Test Certificate, samples as appropriate

2. Manufacturer / Supplier

Company Name: X-CALIBUR
Address: 233 Industrial Zone - New Cairo - Cairo - Egypt
Local agent: NEC

dar

3. Delivery **EX - Stock**

Country of origin: Egypt

Availability:	<input checked="" type="checkbox"/> Local Manufacture	<input type="checkbox"/> Overseas
Delivery:	Expected lead duration:	
	Estimated time of arrival on site:	
Program:	Order material required on site:	
	Latest date for order:	

dar
16/1/18

We certify that the above submitted items have been reviewed in detail and are correct and in full conformity with the required drawings and specifications except as otherwise stated. Also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and below stated items.

Submitted by: ENG. Youssef ElFady Signature: 
P.M. ENG. Mohamed Abd Elmoneem Signature: 

4. Engineer's Representative comments:

Subject to a pull out test at site
Submit calculation for hole diameter
to depth
Submit test report *16/1/18*
A. Rameda *11/12/18*

- Approved
- Rejected as noted
- Review and
- Rejected
- Rejected
- Sample required
- Tests required
- Additional
- information
- required
- Manufacturer's
- particulars
- required

Approved will not release Contractor of his liabilities under the Contract or specify substitution of any change in Contract Documents

Alexandria construction
RECEIVED
Structural Buildings Plot 15A & 15A

Alexandria construction
Structural Buildings Plot 15A & 15A
dar

Submittal for approval of materials

dar
2130

Date: 6-Feb-18

Request no: CRB-MAT-EC-020-Rev 03

Project no. & title

E16104-04005/7-05/Ministerial Buildings on Plots 196 & 202


Employer 	Engineer 	Contractor 
---	---	---

1. Material description (one item only on this form)
 2. Title: Baeloc EX (High Viscosity Epoxy resin anchor)
 Attachment:
 Data Sheet
 No. Sample

Area of application: All Building	B.O.Q. ref. no: N/A
Drawing ref: N/A	Standards: N/A
Specification Ref: N/A	

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as specified

2. Manufacturer / supplier

Company Name: NCC	 Submitted by: _____ Signature: _____ Date: _____
Address: 233 Industrial Zone, New Cairo - Egypt	
Local agent:	

3. Delivery

Country of origin: Egypt					
Locally Manufactured: <input checked="" type="checkbox"/> Imported: <input type="checkbox"/>					
Delivery	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Ex-works total duration</td> <td></td> </tr> <tr> <td>Estimated time of arrival on site</td> <td></td> </tr> </table>	Ex-works total duration		Estimated time of arrival on site	
Ex-works total duration					
Estimated time of arrival on site					
Program	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Date material required on site</td> <td></td> </tr> <tr> <td>Latest date for order</td> <td></td> </tr> </table>	Date material required on site		Latest date for order	
Date material required on site					
Latest date for order					

I/We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with drawings and specifications except as otherwise stated, also that the material sources indicated above have been checked in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by: ENG / AHMED IBRAHIM Signature: _____

4. Engineer's Representative comments:

Subject to a pull out test at site
Submit calculation for hole diameter
In depth
John 10/10/18

Signature: *A. Renada* Date: *10/12/18*

<input type="checkbox"/> Approved
<input checked="" type="checkbox"/> Approved with conditions
<input type="checkbox"/> Rejected
<input type="checkbox"/> Sample required
<input type="checkbox"/> Tests required
<input type="checkbox"/> Additional information required
<input type="checkbox"/> Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

[Handwritten signature]

dar

مكتب الدكتور عمرو عبد الرحمن للإستشارات
الهندسية



وزارة الدفاع

الهيئة الهندسية للقوات المسلحة
إدارة المهندسين العسكريين

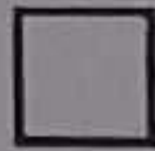
شركة أبناء مصر للطرق و الكباري

HASSAN ALLAM
Roads & Bridges

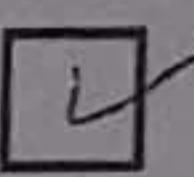
PROJECT : REGIONAL RING ROAD TUNNELS (B&C)

DOCUMENT SUBMITTAL

FOR INFORMATION
AND RECORDS



FOR APPROVAL



DATE:

20-May-18

SUBMITTAL NO.

21

From :

Amir Elziny

Signature :

Title :

T.O.M

Signature :

CC :

Owner Engineer

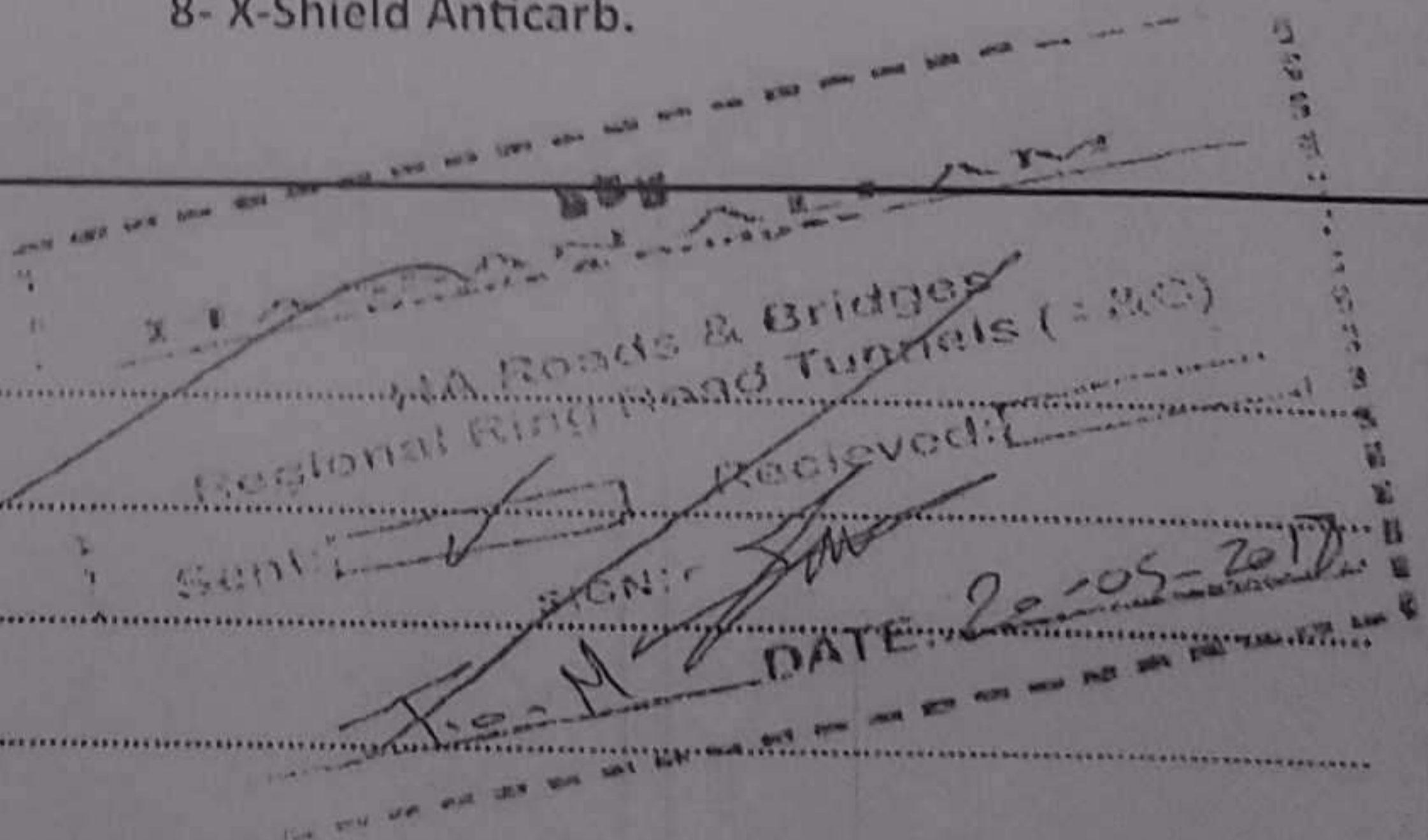
DOCUMENT TITLE :

X-CALIBUR Products

Other Remarks :

- 1- X-Tite Construction Grout.
- 2- X-Cure 111 .
- 3- X-Roc Latex S.
- 4- X-Pruf SBE .
- 5- X-Tite Resiloc EX.
- 6- X-Stop PVC Waterstops.
- 7- X-Seal PU25.
- 8- X-Shield Anticarb.

Consultant Comments :



Approved



Approved As Noted



Revise & Resubmit



Not Approved



Consultant Engineer :

Name :

Owner Engineer :

Name :

Submission for approval of materials

06 FEB 2018

RECEIVED



By No. E16104-04005 Title: 232

Date: 6-Feb-18

Request no: GRB-MAT-SC-060-Rev 00

Project no. & title:

E16104-04005/T-08/Ministerial Buildings on Plots 19B & 20B

Employer: 	Engineer: dar	Contractor: 
--	-------------------------	--

1. Material description (one item only on this form) :
X-Tite Resiloc EX (High Viscosity Epoxy resin anchor)
 Attachment :-
 - Data Sheet
 - No Sample

Area of application: All Building
 Drawing ref: N/A
 Specification Ref: N/A
 B.O.Q. ref. no.: N/A
 Standards: N/A
 Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier
 Company Name: **NCC**
 Address: **233 Industrial Zone, New Cairo - Egypt**
 Local agent: -

3. Delivery :
 Country of origin: **Egypt**
 Availability:
 Locally Manufactured Overseas
 Delivery:
 Ex-works/ total duration: [] []
 Estimated time of arrival on site: [] []
 Program:
 Date material required on site: [] []
 Latest date for order: [] []

dar Dr. Al-Mondouh Shur and Partners			
Project No: E16104-04005			
Received			
Distribution	Checked	MSR	File
AKh	<input checked="" type="checkbox"/>		
ARam	<input checked="" type="checkbox"/>		
Dar Egypt			

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by: **ENG / AHMED IBRAHIM** Signature: _____

4. Engineer's Representative comments:
Subject to a pull out Test at site
Submit calculation for hole diameter & depth
phr 16.10.18

Signature: **A. Remada** Date: **10/2/18**

- Approved
- Approved & noted
- Revise and resubmit
- Rejected
- Sample required
- Tests required
- Additional information required
- Manufacturer's guarantee required



Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

Handwritten signature and initials



MATERIAL SUBMITTAL (MS)

Project Name: Industrial Development Bank

Project No. : 1189

Employer : Industrial Development Bank

Project Manager : EHA Consulting Engineers

Package : Main Package

Phase : Construction

Supervision Consultant: EHA Consulting Engineers

Contractor : GAMA Construction

From : GAMA Construction

To : EHA Consulting Engineers

Attn. : Eng. Mohamed Helmy

Date : 05 Sep 2019

Submittal Ref.: 1189/GAMA/EHF/MS/CIV/019/0024-00

Previous Ref.: N/A

Subject : Construction Repair & Strengthening Products X-Tite Resiloc EX.

Material/ Equipment For Approval: Material

Description: Construction Repair & Strengthening Products X-Tite Resiloc EX.

Specification Reference : 003300

Quantity : 25 Kg.

Bill of Quantities Reference : 003300

Manufacturer's Details: X-CALIBUR

Manufacturer : X-CALIBUR

Model Number : X-Tite Resiloc EX.

Country of Origin: Egypt

Storage Location: Gama Store

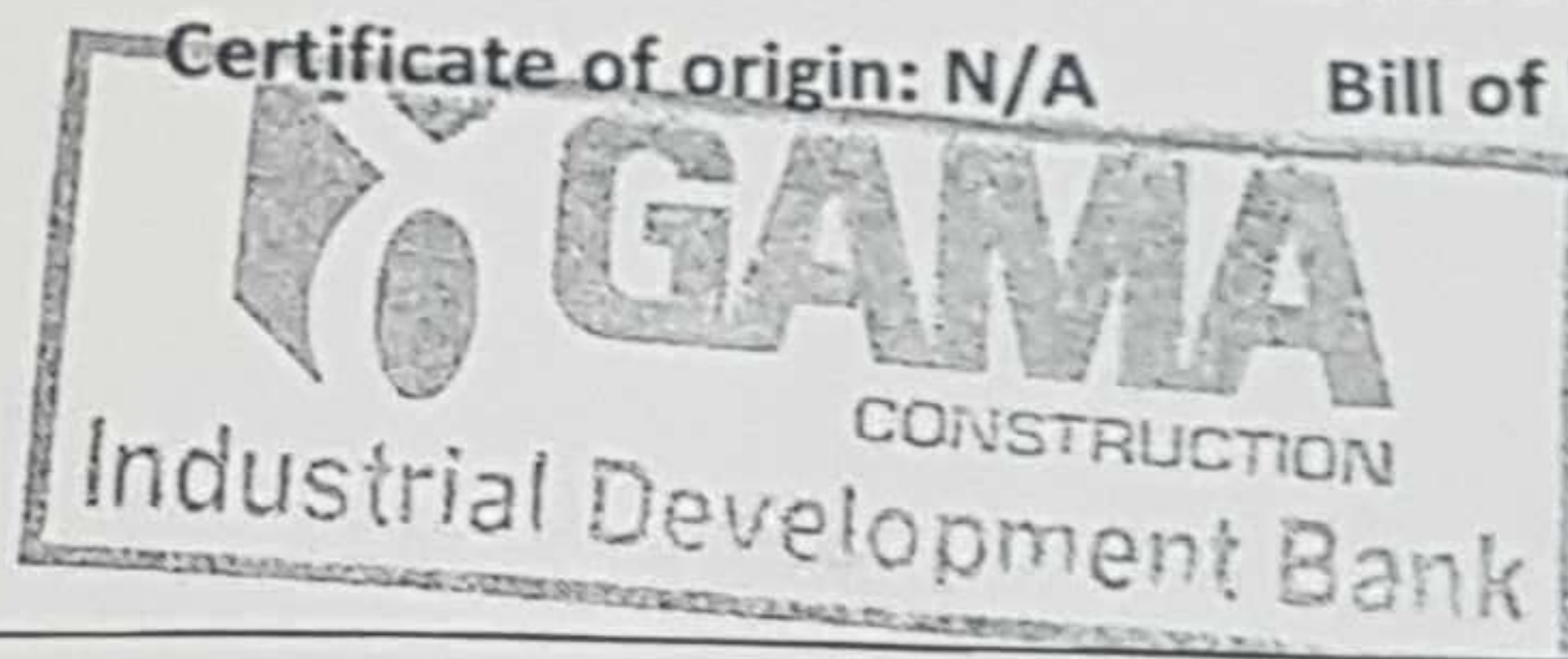
Attachments: Sheets (2 - A4)

Serial number: N/A

Date of arrival on site: Upon Request

Certificate of origin: N/A

Bill of lading : N/A



Main Contractor Representative

Action Code Legend:

(A) Approved

(B) Approved as Noted

(C) Revise and Resubmit

(D) Rejected

Notes :

- Production, supply and /or implementation shall proceed only when action code is A / or B.
- Regarding action code C, resubmittal shall be within the limit set in the contract.
- Review dose not relieve the contractor from responsibility of compliance with all requirments of contract documents.
- If rejected please see comments.

Consultant Comments:

Inspection Report:

- Physical damage?
- Details given above correct?
- Conforms with approved submission?
- Accessories / Spare parts included?

Yes/No

Initials Inspector

Engineer



Remarks : -----

Consultant Manager Remarks:

site sample is required for final approval

Actions required from Contractor:

Hard Copy

Soft Copy (CD)

m helmy 7-9-2019
Supervision Consultant

Employer's Representative Comments (if required):

RECEIVED

Employer Representative

EHA-DMCS-01/12

05 SEP 2019