



STRUCTURAL AND MATERIAL TESTING
CIVIL ENGINEERING DEPARTMENT KMUT. THONBURI

PULL OUT TEST IN AXIAL TENSION

Specimen from : ICONS (THAILAND) CO.,LTD.
Type of Test : PULL-OUT TEST IN AXIAL TENSION
Type of Specimen : THREE (3) "DB12 DEFORMED BAR BONDED WITH " ICONS PURE EPOXY BIS-PE GEN3 (100 YEARS DESIGN LIFE)"
IN CONCRETE BLOCK.
Date of Testing : 22/4/2023
Size of Concrete Specimen : 200x100 cm.

Specimen No.	Type of Specimen	Diameter of Drill Hole (mm.)	Embedded Length (mm.)	Maximum Load (kg.)	Remarks
1	DB12 (SD40)	16	120	5,902	THE DEFORMED BAR FAILURE
2	DB12 (SD40)	16	120	6,064	THE DEFORMED BAR FAILURE
3	DB12 (SD40)	16	120	6,069	THE DEFORMED BAR FAILURE

Tested by :

(Theera Laphitchayangkul)

Checked by :

(Julapot Chiravachradej)

Head of Civil Engineering Department

Remarks 1. The testing results are good only for those specimens tested
2. Not valid unless be signed and sealed.



STRUCTURAL AND MATERIAL TESTING
CIVIL ENGINEERING DEPARTMENT KMUT. THONBURI

PULL OUT TEST IN AXIAL TENSION

Specimen from : ICCONS (THAILAND) CO.,LTD.
Type of Test : PULL-OUT TEST IN AXIAL TENSION
Type of Specimen : THREE (3) "DB16 DEFORMED BAR BONDED WITH " ICCONS PURE EPOXY BIS-PE GEN3 (100 YEARS DESIGN LIFE)"
IN CONCRETE BLOCK.
Date of Testing : 22/4/2023
Size of Concrete Specimen : 200x100 cm.

Specimen No.	Type of Specimen	Diameter of Drill Hole (mm.)	Embedded Length (mm.)	Maximum Load (kg.)	Remarks
1	DB16 (SD40)	20	160	12,419	THE DEFORMED BAR FAILURE
2	DB16 (SD40)	20	160	12,969	THE DEFORMED BAR FAILURE
3	DB16 (SD40)	20	160	12,581	THE DEFORMED BAR FAILURE

Tested by :


(Theera Laphitchayangkul)

Checked by :


(Julapot Chiravachradej)
Head of Civil Engineering Department

Remarks 1. The testing results are good only for those specimens tested
2. Not valid unless be signed and sealed.



STRUCTURAL AND MATERIAL TESTING
CIVIL ENGINEERING DEPARTMENT KMUT. THONBURI

PULL OUT TEST IN AXIAL TENSION

Specimen from : ICCONS (THAILAND) CO.,LTD.
Type of Test : PULL-OUT TEST IN AXIAL TENSION
Type of Specimen : THREE (3) "DB20 DEFORMED BAR BONDED WITH " ICCONS PURE EPOXY BIS-PE GEN3 (100 YEARS DESIGN LIFE)"
IN CONCRETE BLOCK.
Date of Testing : 22/4/2023
Size of Concrete Specimen : 200x100 cm.

Specimen No.	Type of Specimen	Diameter of Drill Hole (mm.)	Embedded Length (mm.)	Maximum Load (kg.)	Remarks
1	DB20 (SD40)	25	200	20,964	THE DEFORMED BAR FAILURE
2	DB20 (SD40)	25	200	21,394	THE DEFORMED BAR FAILURE
3	DB20 (SD40)	25	200	20,020	THE DEFORMED BAR FAILURE

Tested by :

(Theera Laphitchayangkul)

Checked by :



(Julapot Chiravachradej)

Head of Civil Engineering Department

Remarks 1. The testing results are good only for those specimens tested
2. Not valid unless be signed and sealed.



STRUCTURAL AND MATERIAL TESTING
CIVIL ENGINEERING DEPARTMENT KMUT. THONBURI

PULL OUT TEST IN AXIAL TENSION

Specimen from : ICCONS (THAILAND) CO.,LTD.
Type of Test : PULL-OUT TEST IN AXIAL TENSION
Type of Specimen : THREE (3) "DB25 DEFORMED BAR BONDED WITH " ICCONS PURE EPOXY BIS-PE GEN3 (100 YEARS DESIGN LIFE)"
IN CONCRETE BLOCK.
Date of Testing : 22/4/2023
Size of Concrete Specimen : 200x100 cm.

Specimen No.	Type of Specimen	Diameter of Drill Hole (mm.)	Embedded Length (mm.)	Maximum Load (kg.)	Remarks
1	DB25 (SD50)	32	250	23,593	CONCRETE BREAKOUT
2	DB25 (SD50)	32	250	31,404	THE DEFORMED BAR FAILURE
3	DB25 (SD50)	32	250	31,533	THE DEFORMED BAR FAILURE

Tested by :


(Theera Laphitchayangkul)

Checked by :


(Julapot Chiravachradej)
Head of Civil Engineering Department

Remarks 1. The testing results are good only for those specimens tested
2. Not valid unless be signed and sealed.



STRUCTURAL AND MATERIAL TESTING
CIVIL ENGINEERING DEPARTMENT KMUT. THONBURI

PULL OUT TEST IN AXIAL TENSION

Specimen from : ICCONS (THAILAND) CO.,LTD.
Type of Test : PULL-OUT TEST IN AXIAL TENSION
Type of Specimen : THREE (3) "DB28 DEFORMED BAR BONDED WITH " ICCONS PURE EPOXY BIS-PE GEN3 (100 YEARS DESIGN LIFE)"
IN CONCRETE BLOCK.
Date of Testing : 22/4/2023
Size of Concrete Specimen : 200x100 cm.

Specimen No.	Type of Specimen	Diameter of Drill Hole (mm.)	Embedded Length (mm.)	Maximum Load (kg.)	Remarks
1	DB28 (SD50)	35	280	36,110	CONCRETE BREAKOUT
2	DB28 (SD50)	35	280	44,580	CONCRETE BREAKOUT
3	DB28 (SD50)	35	280	44,292	CONCRETE BREAKOUT

Tested by :


(Theera Laphitchayangkul)

Checked by :


(Julapote Chiravachradej)
Head of Civil Engineering Department



Remarks 1. The testing results are good only for those specimens tested
2. Not valid unless be signed and sealed.