

Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

PULL-OUT TEST IN AXIAL TENSION

TEST SPECIMEN:

Three (3) specimens of " Iccons Stud Grade 5.8 M20x260 " bonded with " Iccons VDP-Q (Chemical Capsule) M20 " in concrete blocks having a

size of 400 x 1,200 x 1,200 mm. were tested.

CLIENT:

ICCONS (THAILAND) CO., LTD.

DATE OF TEST:

October 26, 2015

TEST RESULTS:

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สว่	านที่ใช้	ของรเจาะ

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Type of Specimen	Diameter of Drill hole	Depth of Drill hole	Span Length	Maximum Load	Mode of Failure คอนกรีตแตก หรือแท่งเกลียว เหล็กขาดเมื่อรับน้ำหนักสูงสูด
	(mm.)	(mm.)	(mm.)	(kg.)	ประมาณ 16 ตัน
Iccons Stud M20x260	22	170	300	17,020	-The failure occurred due to concrete breakout when applied the maximum load.
Iccons Stud M20x260	22	170	300	16,290	-The anchor stud failure occurred when applied the maximum load.
Iccons Stud M20x260	22	170	300	16,540	-The anchor stud failure occurred when applied the maximum load.
	of Specimen Iccons Stud M20x260 Iccons Stud M20x260 Iccons Stud	Type of Specimen Diameter of Drill hole (mm.) Iccons Stud M20x260 Iccons Stud M20x260 Iccons Stud M20x260 Iccons Stud M20x260	Type of Specimen	Type of Specimen Diameter of Of Drill hole (mm.) Depth of Drill hole (mm.) Span Length (mm.) Iccons Stud M20x260 22 170 300 Iccons Stud M20x260 22 170 300 Iccons Stud M20x260 22 170 300	Type of Specimen Diameter of Of Drill hole (mm.) Depth of Drill hole (mm.) Span Length Length (kg.) Maximum Load Iccons Stud M20x260 22 170 300 17,020 Iccons Stud M20x260 22 170 300 16,290 Iccons Stud M20x260 22 170 300 16,540

Note: This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

MR. SAMWAI SORNSRIDA

RESEARCH ASSOCIATE

MR. EKKACHAI YOOPRASERTCHAI

TECHNICIAN

CHECKED BY:

APPROVED BY:

PROFESSOR PENNUNG WARNITCHAI FIELD COORDINATOR OF STE/SET

November 5, 2015

CLIENT: ICCONS (THAILAND) CO., LTD.

DATE OF TEST: October 26, 2015

TEST RESULTS: ขนาดดอก ความลึก รับน้ำหนัก สว่านที่ใช้ ของรูเจาะ ได้ต่อจุด

Specimen No.	Type of	Diameter of	Depth of	Span Length	Maximum Load	Mode of Failure คอนกรีตแตุก หรือแท่งเกลียว
	Specimen	Drill hole (mm.)	Drill hole (mm.)	(mm.)	(kg.)	เหล็กขาดเมื่อรับน้ำหนักสูงสุด ประมาณ 16 ตัน
1	Iccons Stud M20x260	22	170	300	17,020	-The failure occurred due to concrete breakout when applied the maximum load.
2	Iccons Stud M20x260	22	170	300	16,290	-The anchor stud failure occurred when applied the maximum load.
3	Iccons Stud M20x260	22	170	300	16,540	-The anchor stud failure occurred when applied the maximum load.