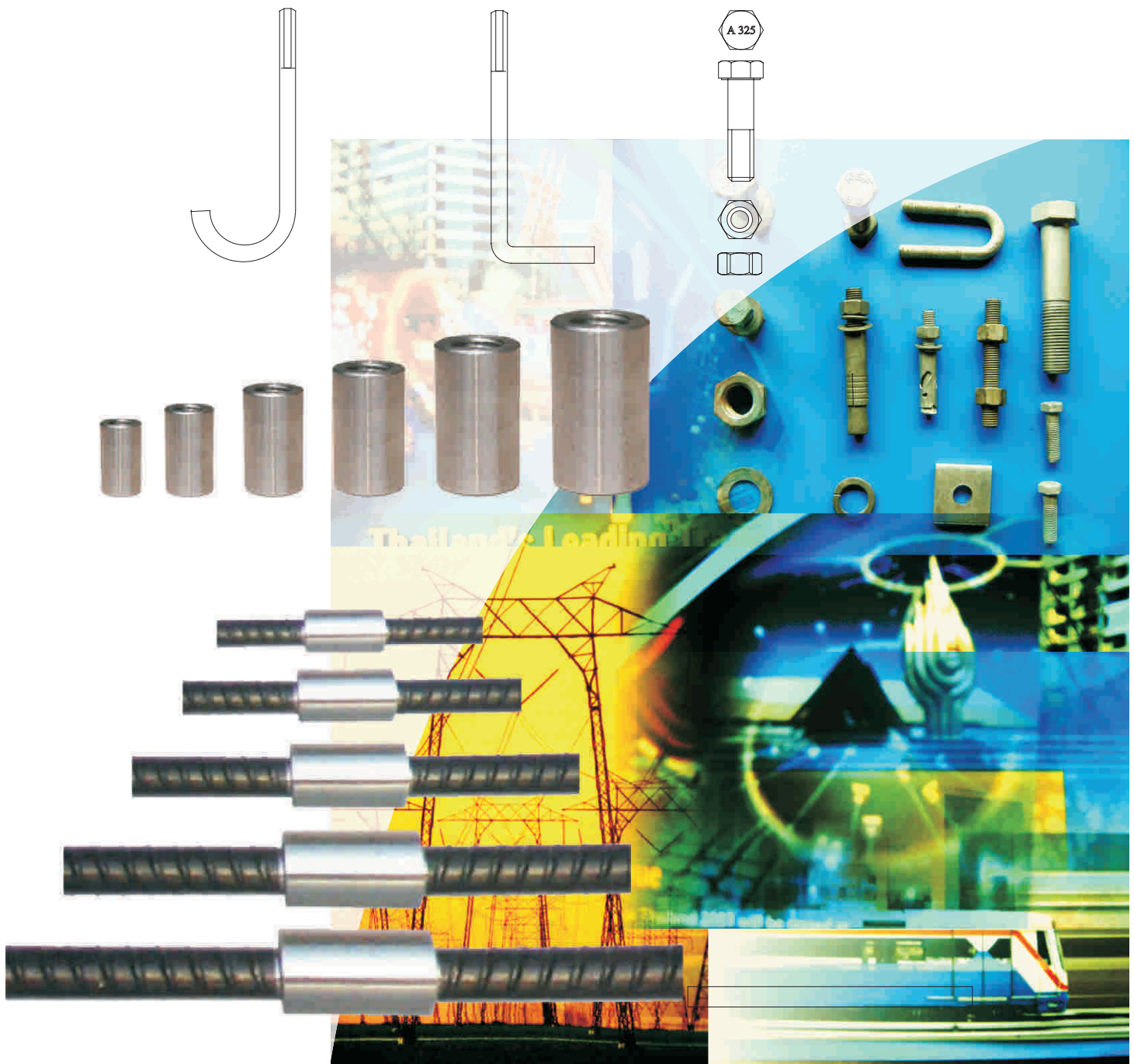


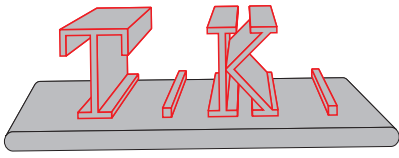
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Factory

5/28 ม.12 ซอยชนสิทธิ์ ถ.เทพารักษ์ กม 13 ต.บางแก้ว อ.บางพลี จ.สมุทรปราการ 10540 Tel. 02-182-1242



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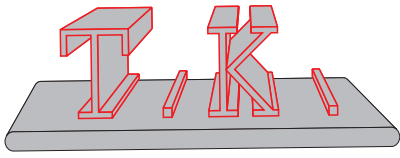
ใช้งานสะดวก แม่นยำ แน่นอน กินพื้นที่ ไม่เกิน 2 ตารางเมตร

Easy for use Machine work Stable Work in Small area



Factory

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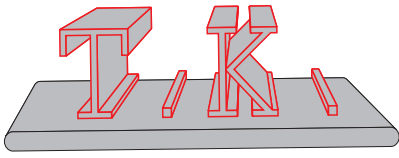


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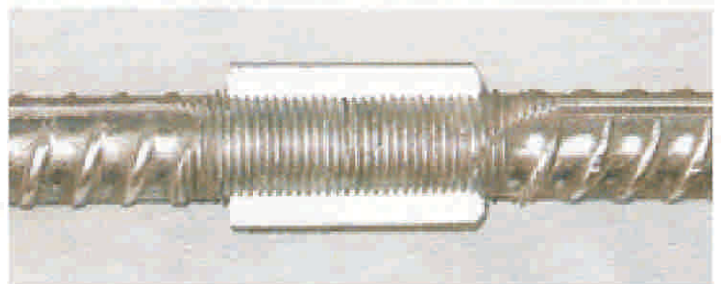
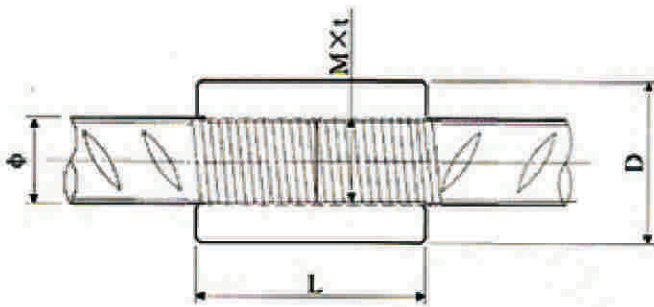
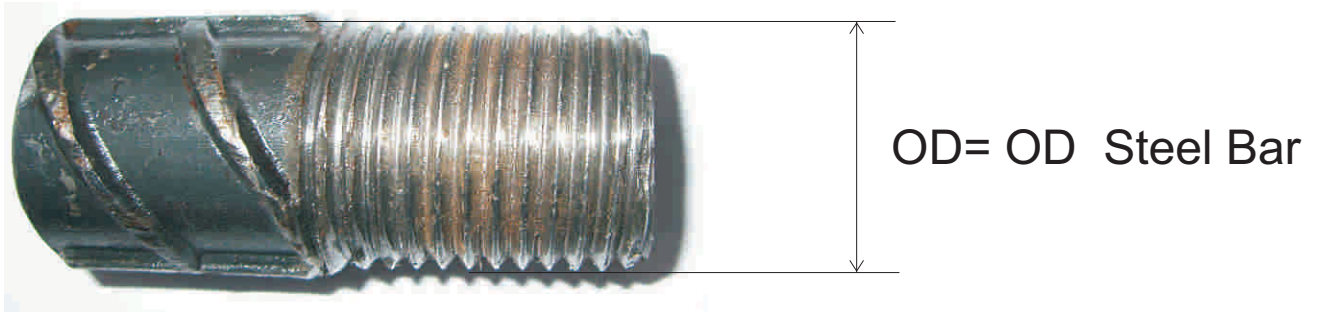
TIS Strengths of Deformed Bar

Size	Weigh	Yield Strengths(Min) kg			Ultimate Strengths(Min) kg		
		SD-30	SD-40	SD-50	SD-30	SD-40	SD-50
DB	M						
12	0.888	3393	4524	5655	5542	6447	7125
16	1.578	6032	8042	10053	9852	11460	12667
20	2.466	9425	12566	15708	15394	17907	19792
25	3.853	14726	19635	24544	24053	27980	30925
28	4.834	18473	24630	30788	30172	35098	38792
32	6.313	24128	32170	40213	39408	45842	50668
36	7.990	30536	40715	50894	49876	58019	64126
40	9.865		50280			71649	



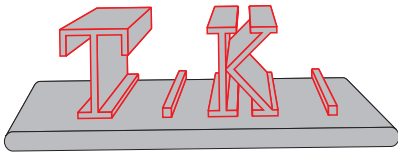
Type Standard Size (Straight Thread)

รูปแบบเกลียวตรงทำหน้าตัดเหล็ก



Specification Of Standard Coupler

Deformed (Reinforcing) Bar Size	DB 16	DB 20	DB 25	DB 28	DB 32	DB 36	DB 40
Finishing Thread Size	M16x2.5	M20x2.5	M25x3.0	M28x3.0	M32x3.0	M36x3.0	M40x3.0
Coupler Yield Load	12,122	20,892	27,308	33,326	43,259	50,128	58,429
Coupler Ultimate Load	18,650	32,987	43,518	53,365	68,850	81,585	95,560

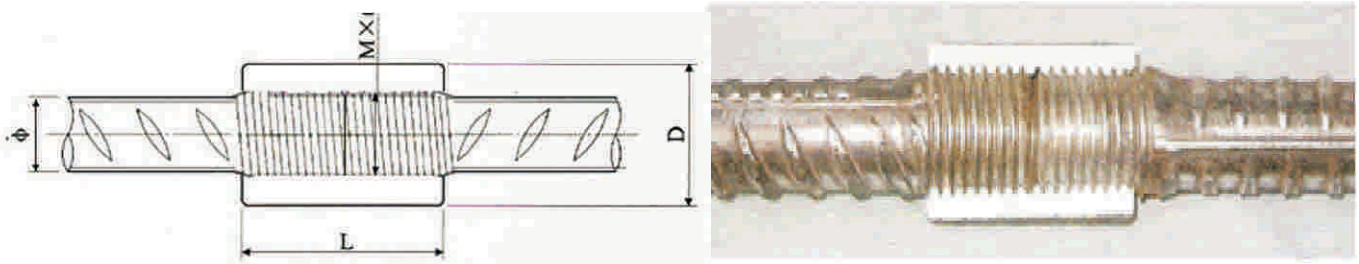


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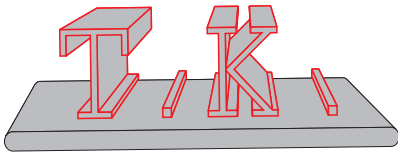
Type Over Size (Enlarged)

รูปแบบเกลียวตรงขยายหน้าตัดเหล็ก



Specification Of Over Size Coupler

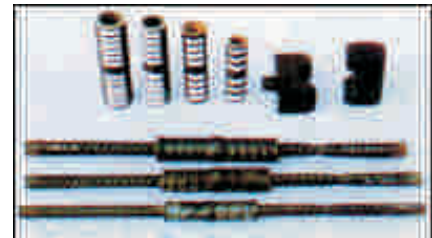
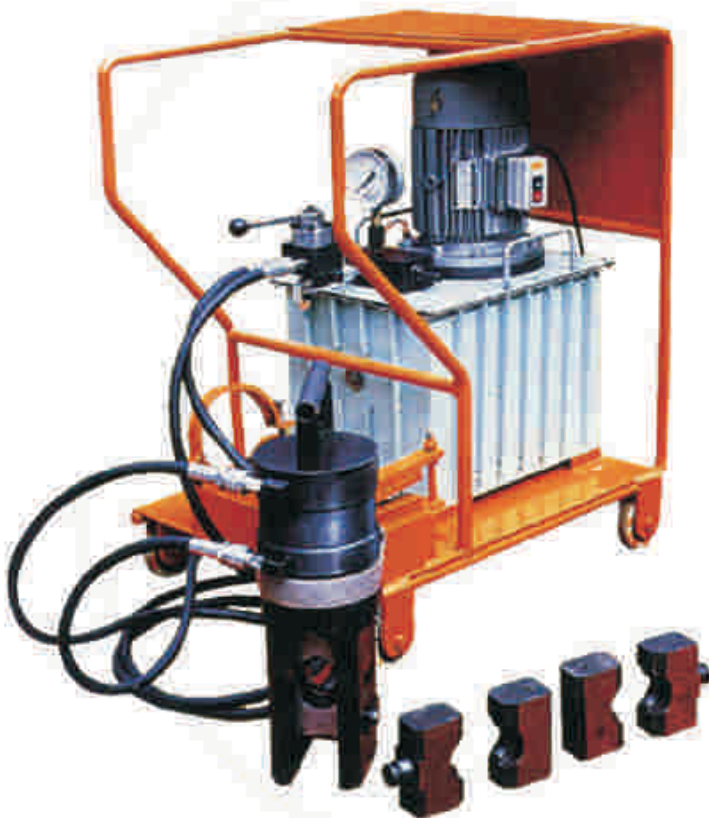
Deformed (Reinforcing) Bar Size	DB 16	DB 20	DB 25	DB 28	DB 32	DB 36	DB 40
Finishing Thread Size	M18x2.5	M22x2.5	M28x3.0	M32x3.0	M36x3.0	M40x3.0	M44x3.0
Coupler Yield Load	13,989	21,392	29,918	35,928	43,659	51,529	70,099
Coupler Ultimate Load	22,290	31,687	47,318	57,865	68,855	81,589	110,685



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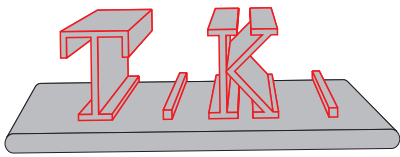
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Cold Press Coupler ต่อข้ออ้อยแบบบีบ



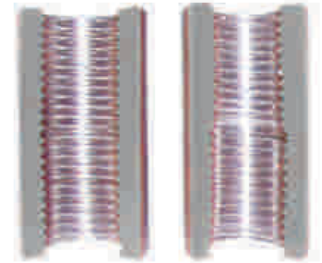
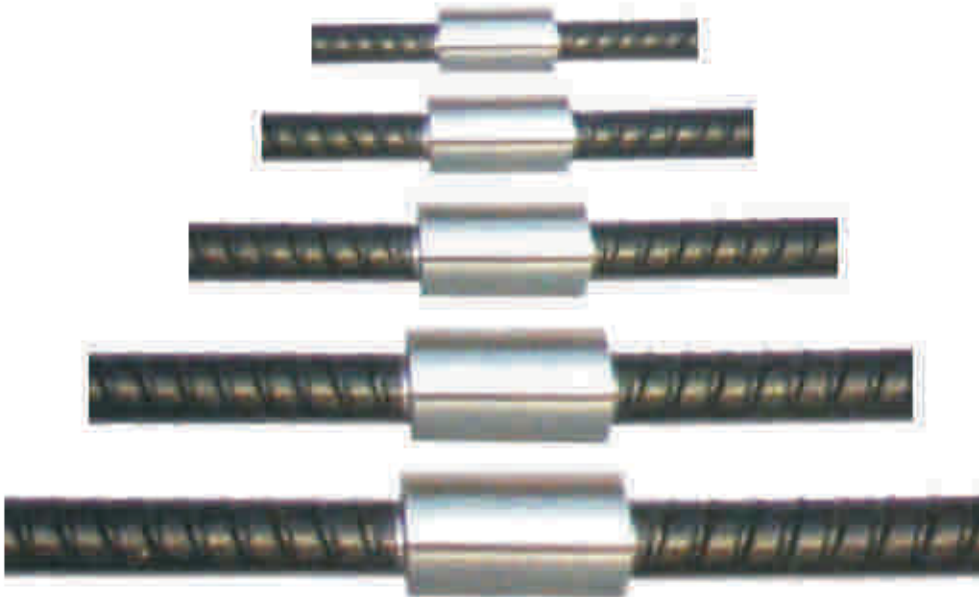
Specification Of Cold Press Coupler

Deformed (Reinforcing) Bar Size	DB 16	DB 20	DB 25	DB 28	DB 32	DB 36	DB 40
Coupler Length	100	110	150	170	180	210	250
Coupler Yield Load	17,399	21,492	31,758	38,028	53,659	68,289	83,099
Coupler Ultimate Load	27,890	34,387	50,318	60,865	86,155	109,589	132,685
Press Time	2x2	3x2	4x2	5x2	6x2	7x2	8x2



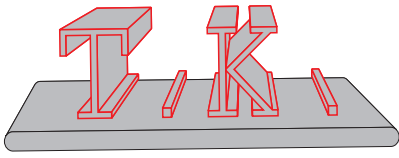
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Factory

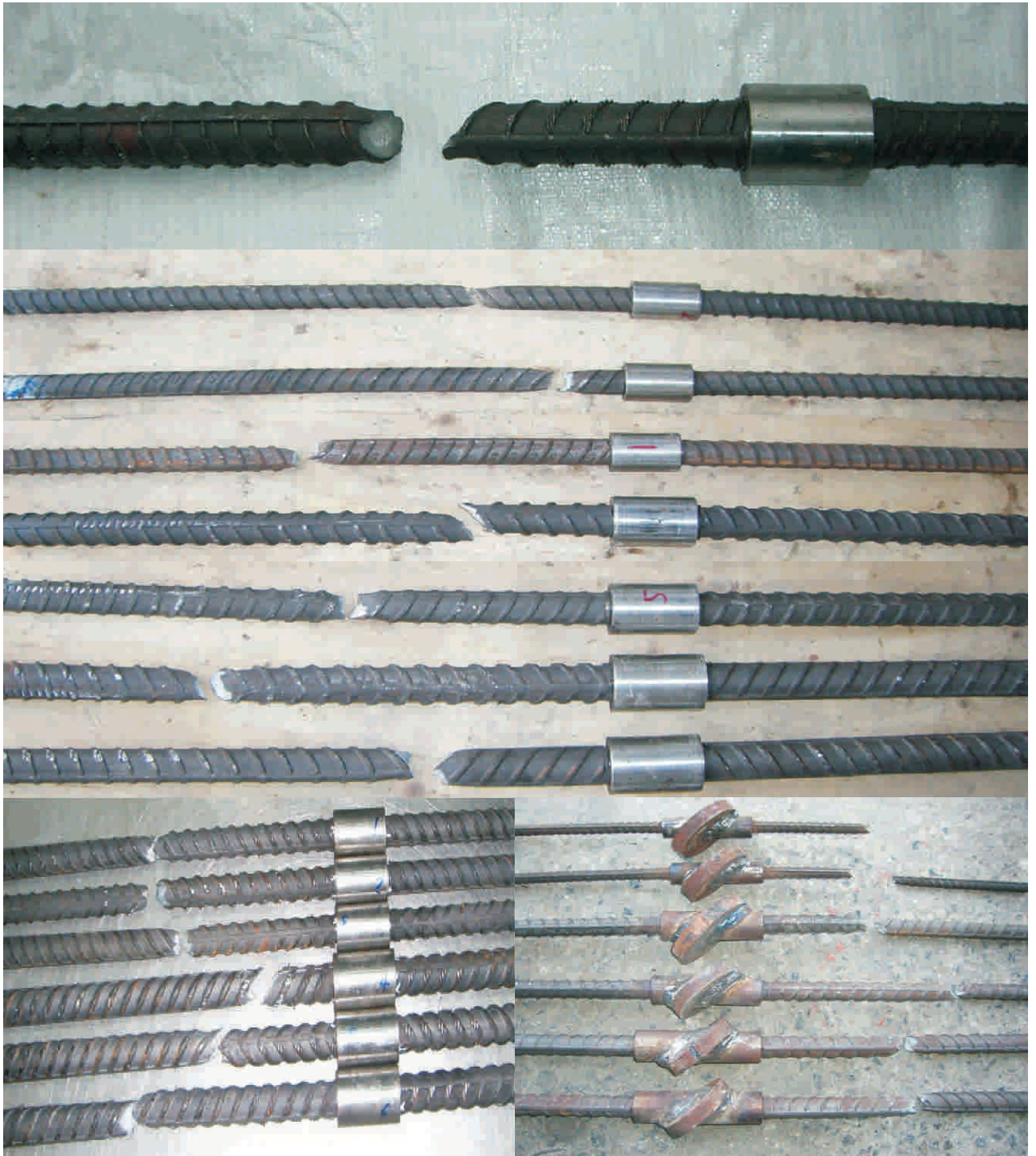
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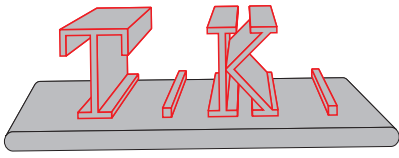


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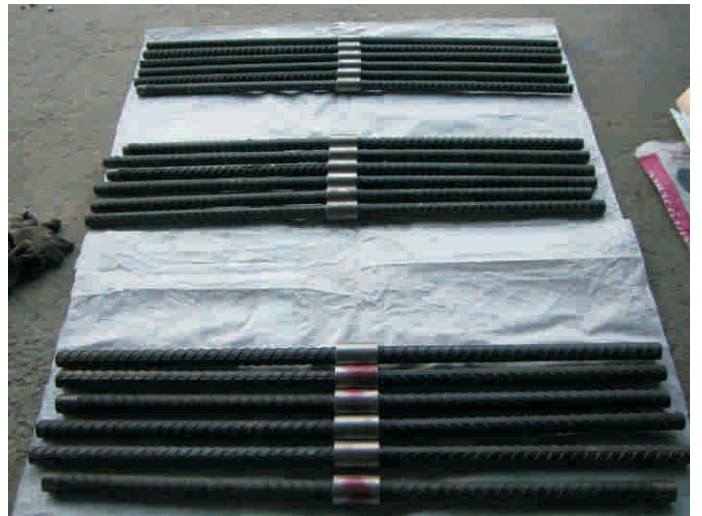
100% BREAK AT BAR

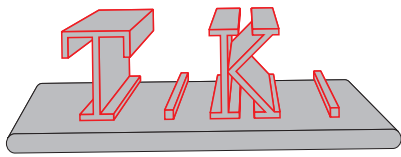




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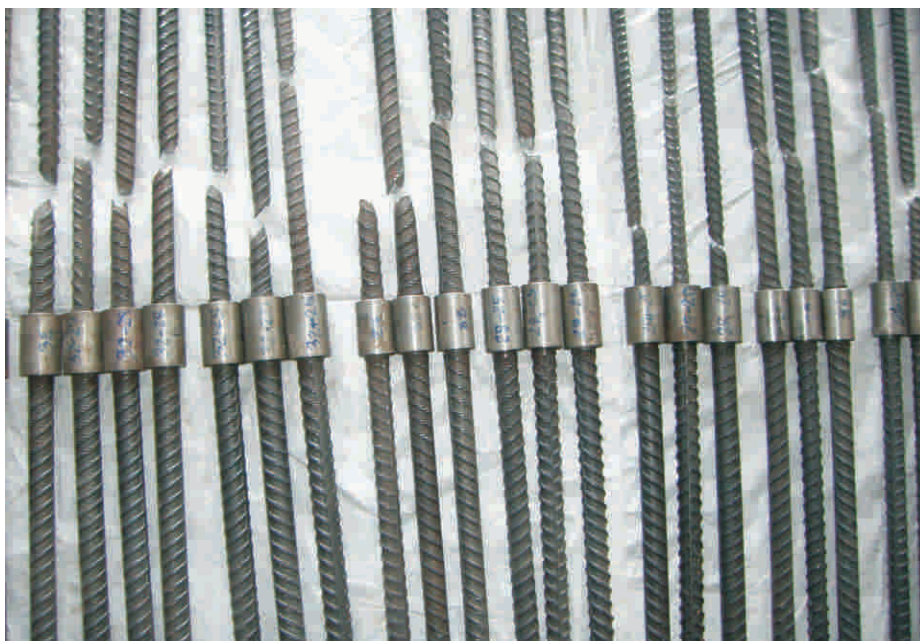
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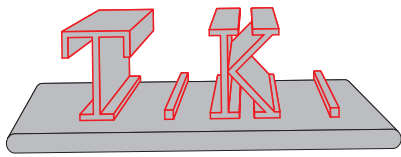




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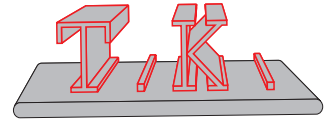
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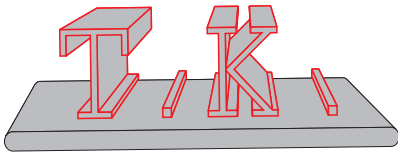
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Wrench for Reformed bar



Torque Wrench for Reformed bar



Coupler Torque Data (N/m)

Size of D-Bar	12-16	18-20	22-25	28-32	36-40
Torque (N-m)	80	160	230	300	360



STRUCTURAL AND MATERIAL TESTING LABORATORY


CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โดเกียว เอ็นจิเนียริ่ง จำกัด
PROJECT NAME : อาคารศูนย์กีฬาและนันทนาการ มหาวิทยาลัยมหิดล วิทยาเขตศาลายา
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 26/1/2010

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB32	40450	54890	ขาดที่เหล็ก (320)	TSC SD50T
2	DB32	39480	53930	ขาดที่เหล็ก (370)	TSC SD50T
3	DB32	40690	54650	ขาดที่เหล็ก (245)	TSC SD50T
4	DB32	51920	58260	ขาดที่เหล็ก (365)	บกส SD50T

Tested by :


Pov (Phanuwat Suriyachat)

Checked by :


(Chai Jaturapitakkul)

Head of Civil Engineering Department

Remarks 1. The testing results are good only for those specimens tested.

2. Not valid unless signed and sealed.

AIT

Asian Institute of Technology

Km. 42 Paholyothin Highway, Klong Luang, Pathumthani, Thailand 12120

P. O. Box 4 Klong Luang, Pathumthani 12120, Thailand. Tel. (66-2) 524-5527, 524-6427 Fax. (66-2) 524-5544

STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** Three (3) specimens of coupler which connected two pieces of "SCSC DB32 SD50" deformed bar, were given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)**DATE OF TEST :** April 20, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC DB32 SD50	56,610	-The failure occurred at the deformed bar when applied the maximum load.
2	SCSC DB32 SD50	56,810	-The failure occurred at the deformed bar when applied the maximum load.
3	SCSC DB32 SD50	56,810	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY:



DR. SUN SAYAMIPIUK
 SENIOR LABORATORY SUPERVISOR
 April 22, 2010

AIT

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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** One (1) specimen of "32 mm. coupler installed by hand" which connected two pieces of "BRP DB32 SD40" deformed bar, was given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CHULA SPORTS COMPLEX**DATE OF TEST :** January 11, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	BRP DB32 SD40	51,730	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :



DR. SUN SAYAMIPUK
 SENIOR LABORATORY SUPERVISOR
 January 12, 2010

AIT

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STRUCTURAL ENGINEERING FIELD OF STUDY
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TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** Three (3) specimens of coupler which connected two pieces of "NS DB28 SD40" deformed bar, were given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)**DATE OF TEST :** April 20, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	NS DB28 SD40	41,740	-The failure occurred at the deformed bar when applied the maximum load.
2	NS DB28 SD40	39,520	-The failure occurred at the deformed bar when applied the maximum load.
3	NS DB28 SD40	40,130	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :


DR. SUN SAYAMIPIUK
 SENIOR LABORATORY SUPERVISOR
 April 22, 2010





STRUCTURAL AND MATERIAL TESTING LABORATORY


CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โตเกียว เอ็นจิเนียริง จำกัด
PROJECT NAME : RAMADA ENCORE HOTEL SUKHUMVIT SOI 10
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 8/1/2010

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB28	32390	42370	ขาดที่เหล็ก (254)	บลส SD50T
2	DB28	32260	42370	ขาดที่เหล็ก (149)	บลส SD50T
3	DB28	32410	42370	ขาดที่เหล็ก (280)	บลส SD50T

Tested by : 
(Ampol Karoonsoontawong)

Checked by : 
(Chai Jaturapitakul)
Head of Civil Engineering Department

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

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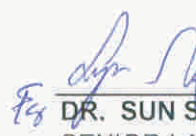

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SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** One (1) specimen of "28 mm. coupler installed by hand" which connected two pieces of "BRP DB28 SD40" deformed bar, was given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CHULA SPORTS COMPLEX**DATE OF TEST :** January 11, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	BRP DB28 SD40	41,440	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :



DR. SUN SAYAMIPUK
 SENIOR LABORATORY SUPERVISOR
 January 12, 2010

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Asian Institute of Technology

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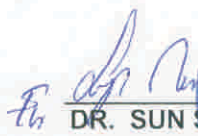

STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** Three (3) specimens of coupler which connected two pieces of "SCSC DB25 SD40" deformed bar, were given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** THE LINK SUKHUMVIT 50**DATE OF TEST :** January 11, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC DB25 SD40	31,460	-The failure occurred at the deformed bar when applied the maximum load.
2	SCSC DB25 SD40	31,660	-The failure occurred at the deformed bar when applied the maximum load.
3	SCSC DB25 SD40	31,960	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :



DR. SUN SAYAMIRUK
 SENIOR LABORATORY SUPERVISOR
 January 12, 2010



STRUCTURAL AND MATERIAL TESTING LABORATORY

CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โตเกียว เซ็นติเม็ซิ่ง จำกัด
PROJECT NAME : คณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 11/12/2009

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB25	19983	32502	ขาดที่เหล็ก (171)	BSBM SD40
2	DB25	19983	33224	ขาดที่เหล็ก (159)	BSBM SD40
3	DB25	20464	33224	ขาดที่เหล็ก (150)	BSBM SD40

Tested by :


Ampol Karoonsoontawong

Checked by :


(Chai Jaturapitakkul)
Head of Civil Engineering Department

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

Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST

TEST SPECIMEN: Three (3) specimens of coupler which connected two pieces of "SSS DB20 SD40" deformed bar, were given by the client.

CLIENT: TOKYO ENGINEERING CO., LTD.

PROJECT: CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)

DATE OF TEST : April 20, 2010

TEST MACHINE: The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.

TEST RESULTS:

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SSS DB20 SD40	20,360	-The failure occurred at the deformed bar when applied the maximum load.
2	SCSC DB20 SD40	20,150	-The failure occurred at the deformed bar when applied the maximum load.
3	SCSC DB20 SD40	20,050	-The failure occurred at the deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :


DR. SUN SAYAMIPUK
SENIOR LABORATORY SUPERVISOR
April 22, 2010





STRUCTURAL AND MATERIAL TESTING LABORATORY

CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โดเกียว เอ็นจิเนียริง จำกัด
PROJECT NAME : ศูนย์เทคโนโลยีนวัตกรรมและปฏิบัติการเอนกประสงค์ มหาวิทยาลัยมหิดล
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 26/4/2010

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB20	13290	19530	ขาดที่เหล็ก (360)	KSTI SD40
2	DB20	13060	19500	ขาดที่เหล็ก (251)	KSTI SD40
3	DB20	13210	19480	ขาดที่เหล็ก (265)	KSTI SD40

Tested by :

(Theera Laphitchayangkul)

Checked by :



(Chai Jaturapitakkul)

Head of Civil Engineering Department

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



STRUCTURAL AND MATERIAL TESTING LABORATORY

CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โดเกียว เอ็นจิเนียริ่ง จำกัด
PROJECT NAME : ศูนย์เทคโนโลยีนวัตกรรมและปฏิบัติการเลนคประสงค์ มหาวิทยาลัยขอนแก่น
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 26/4/2010

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB16	11539	12803	ขาดที่เหล็ก (120)	BRP SD40T
2	DB16	9684	12045	ขาดที่เหล็ก (120)	NS SD40T
3	DB16	10866	12516	ขาดที่เหล็ก (153)	NS SD40T หนึ่งด้านและ BRP SD40T หนึ่งด้าน

Tested by :

(Theera Laphitchayangkul)

Checked by :

(Chai Jaturapitakkul)
Head of Civil Engineering Department

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

Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST

TEST SPECIMEN: Three (3) specimens of coupler which connected two pieces of "SCSC DB32 SD50" and "NS DB28 SD40" deformed bar, were given by the client.

CLIENT: TOKYO ENGINEERING CO., LTD.

PROJECT: CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)

DATE OF TEST : April 20, 2010

TEST MACHINE: The 200-ton "Shimadzu" universal testing machine of model type UMH 200A.

TEST RESULTS:

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC DB32 SD50 and NS DB28 SD40	39,020	-The failure occurred at the DB 28 deformed bar when applied the maximum load.
2	SCSC DB32 SD50 and NS DB28 SD40	40,330	-The failure occurred at the DB 28 deformed bar when applied the maximum load.
3	SCSC DB32 SD50 and NS DB28 SD40	40,740	-The failure occurred at the DB 28 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :


DR. SUN SAYAMIPUK
SENIOR LABORATORY SUPERVISOR
April 22, 2010



Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST

TEST SPECIMEN: One (1) specimen of "coupler installed by hand" which connected two pieces of SCSC SD40 deformed bar, DB32 and DB28 was given by the client.

CLIENT: TOKYO ENGINEERING CO., LTD.

PROJECT: CHULA INNOVATION CENTER

DATE OF TEST : January 27, 2010

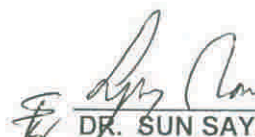
TEST MACHINE: The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.

TEST RESULTS:

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC SD40 DB32 and DB28	42,380	-The failure occurred at the DB 28 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :


DR. SUN SAYAMIPIK
SENIOR LABORATORY SUPERVISOR
February 1, 2010



AIT

Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** Three (3) specimens of coupler which connected two pieces of "SCSC" deformed bar, "DB32 SD50" and "DB25 SD40", were given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)**DATE OF TEST :** April 20, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	DB32 SD50 and DB25 SD40	33,570	-The failure occurred at the DB 25 deformed bar when applied the maximum load.
2	DB32 SD50 and DB25 SD40	34,280	-The failure occurred at the DB 25 deformed bar when applied the maximum load.
3	DB32 SD50 and DB25 SD40	32,870	-The failure occurred at the DB 25 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :



DR. SUN SAYAMIPUK
 SENIOR LABORATORY SUPERVISOR
 April 22, 2010

AIT

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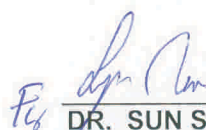
STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** One (1) specimen of "coupler installed by hand" which connected two pieces of SCSC SD40 deformed bar, DB28 and DB25 was given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CHULA INNOVATION CENTER**DATE OF TEST :** January 27, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

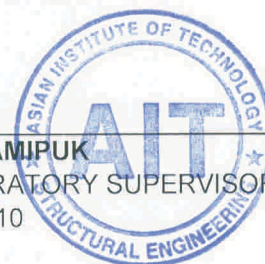
Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC SD40 DB28 and DB25	29,950	-The failure occurred at the DB 25 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :



DR. SUN SAYAMIPUK
 SENIOR LABORATORY SUPERVISOR
 February 1, 2010



Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST

TEST SPECIMEN: Three (3) specimens of coupler which connected two pieces of SD40 deformed bar, "NS DB28" and "SCSC DB25", were given by the client.

CLIENT: TOKYO ENGINEERING CO., LTD.

PROJECT: CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)

DATE OF TEST : April 20, 2010

TEST MACHINE: The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.

TEST RESULTS:

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	NS DB28 and SCSC DB25	31,760	-The failure occurred at the DB 25 deformed bar when applied the maximum load.
2	NS DB28 and SCSC DB25	33,370	-The failure occurred at the DB 25 deformed bar when applied the maximum load.
3	NS DB28 and SCSC DB25	32,360	-The failure occurred at the DB 25 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY:



DR. SUN SAYAMIPIUK
SENIOR LABORATORY SUPERVISOR
April 22, 2010



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STRUCTURAL ENGINEERING LABORATORY
STRUCTURAL ENGINEERING FIELD OF STUDY
SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST**TEST SPECIMEN:** Three (3) specimens of coupler which connected two pieces of SD40 deformed bar, "SCSC DB25" and "SSS DB20", were given by the client.**CLIENT:** TOKYO ENGINEERING CO., LTD.**PROJECT:** CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)**DATE OF TEST :** April 20, 2010**TEST MACHINE:** The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.**TEST RESULTS:**

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	SCSC DB25 and SSS DB20	22,170	-The failure occurred at the DB 20 deformed bar when applied the maximum load.
2	SCSC DB25 and SSS DB20	20,660	-The failure occurred at the DB 20 deformed bar when applied the maximum load.
3	SCSC DB25 and SSS DB20	20,460	-The failure occurred at the DB 20 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY:



DR. SUN SAYAMIPUK
 SENIOR LABORATORY SUPERVISOR
 April 22, 2010



Asian Institute of Technology

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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST: TENSION TEST

TEST SPECIMEN: One (1) specimen of "coupler installed by hand" which connected two pieces of SD40 deformed bar, "BSI DB25" and "NS DB16", was given by the client.

CLIENT: TOKYO ENGINEERING CO., LTD.

PROJECT: CHULA SPORTS COMPLEX

DATE OF TEST.: April 21, 2010

TEST MACHINE: The 200-ton "Shimadzu" universal testing machine of model type : UMH 200A.

TEST RESULTS:

Specimen No.	Type of Deformed bar	Maximum Load (kgf)	Mode of Failure
1	BSI DB25 and NS DB16	20,460	-The failure occurred at the DB 16 deformed bar when applied the maximum load.

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

CHECKED & APPROVED BY :


DR. SUN SAYAMIPIK
SENIOR LABORATORY SUPERVISOR
April 22, 2010





STRUCTURAL AND MATERIAL TESTING LABORATORY

CIVIL ENGINEERING DEPARTMENT, KMUTT

TENSION TEST OF COUPLING JOINT

SPECIMEN FROM : บริษัท โตเกียว เอ็นจิเนียริง จำกัด
PROJECT NAME : ก่อสร้างอาคารที่ทำการสำนักงาน ป.ป.ช. แห่งใหม่ (ระยะที่ 2)
TYPE OF SPECIMEN : DEFORMED BARS WITH COUPLER
DATE OF TESTING : 26/1/2010

Specimen No.	Nominal Size	Actual Load, kg.		Rupture observation (distance from center of joint, mm.)	Remark
		Yield	Ultimate		
1	DB20	16610	22150	ขาดที่เหล็ก (136)	กลุ่ม บลส SD50T
2	DB20	17330	23110	ขาดที่เหล็ก (117)	กลุ่ม บลส SD50T
3	DB20	16460	20710	ขาดที่เหล็ก (181)	กลุ่ม บลส SD50T
4	DB25	26900	32740	ขาดที่เกลียว (43)	กลุ่ม บลส SD50T
5	DB25	27580	35630	ขาดที่เหล็ก (330)	กลุ่ม บลส SD50T
6	DB25	27450	36350	ขาดที่เหล็ก (128)	กลุ่ม บลส SD50T
7	DB28	31740	40930	ขาดที่เหล็ก (335)	กลุ่ม บลส SD50T
8	DB28	32920	44060	ขาดที่เหล็ก (256)	กลุ่ม บลส SD50T
9	DB28	30690	39970	ขาดที่เหล็ก (208)	กลุ่ม บลส SD50T

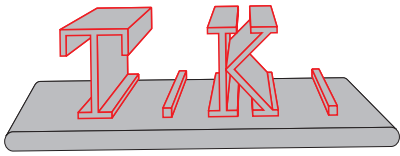
Tested by : *K. Neanchaleay*
(Kuerpan Neanchaleay)

Checked by :



(Chai Jaturapitakkul)
Head of Civil Engineering Department

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



บริษัท โตเกียวเอ็นจิเนียริง จำกัด.
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Tel. 02-730-7600 (auto) Fax. 02-730-7603 www .thaianchorbolt .com
37/14 หมู่12 บางนา-ตราด กม.12 ต.บางพลีใหญ่ อ.บางพลี จ.สมุทรปราการ 10540



Factory

5/28 ม.12 ซอยชนสิทธิ์ ถ.เทพารักษ์ กม 13 ต.บางแก้ว อ.บางพลี จ.สมุทรปราการ 10540 Tel. 02-182-1242



อาคารศูนย์เทคโนโลยีนวัตกรรมและปฏิบัติการอเนกประสงค์



อาคารศูนย์กีฬาและนันทนาการ มจร.บางขุนเทียน



อาคารที่ทำการสำนักงาน ป.ป.ช. แห่งใหม่ (ระยะที่ 2)



หอสมุดแห่งชาติ (ท่าवासกรี)



อาคารศูนย์กลางทำความสะอาดฯ ศูนย์ซักฟอก และศูนย์โภชนาการ



สะพานสารสิน 2



ศูนย์สัตว์ทดลองแห่งจุฬาลงกรณ์มหาวิทยาลัย
และอาคารวิจัยพัฒนา และบริการด้านสัตวแพทยศาสตร์



สถานีรถไฟทางบ้ำहरु

