



CV. BARLIA ENGINEERING SUPPORT

POWER TRANSMISSION INDUSTRIAL



SOLID EXTENDED PIN



HOLLOW PIN



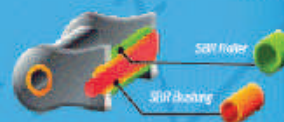
SOLID WITH ATTACHMENT



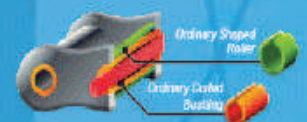
SPROCKET



TRANSMISSION CHAIN



SOLID BUSHING



SPLIT BUSHING



CHAIN COUPLING



FLEXIBLE COUPLING



SPROCKETS



CV. BARLIA ENGINEERING SUPPORT

POWER TRANSMISSION INDUSTRIAL

**NAMA PERUSAHAAN :
CV. BARLIA ENGINEERING SUPPORT**

**ALAMAT PERUSAHAAN :
JL.IRKAB NO.4, ARIFIN AHMAD, KEL.SIDOMULYO-
TIMUR, KEC.MARPOYAN DAMAI – PEKANBARU**

**PRODUK :
CONVEYOR & TRANSMISI CHAIN “CULLENS”**



Salam Sukses,

CV. Barlia Engineering Support menghadirkan produk conveyor chain merk CULLENS Conveyor Chain yang berkualitas tinggi, diproduksi secara maksimal dengan spesifikasi dan bahan terunggul yang telah teruji untuk Palm Oil Mill dan segala industri yang membutuhkan conveyor chain.

Dengan standar British - ANSI-Kami memberikan produk Conveyor Chain dan Transmisi produk dengan kualitas terbaik. CULLENS bukan hanya sekedar diproduksi dengan kualitas tinggi, namun lebih dari itu - CULLENS memberikan pelayanan - rasa aman dan nyaman yang menjadi jaminan dalam kelancaran pengoperasian Pabrik.

Spesifikasi material conveyor Chain CULLENS di desain dengan teknologi muktahir, diproduksi dengan komposisi material terbaik, yang membuat kekuatan dan daya tahan. CULLENS terbukti tangguh dalam segala bidang. Pilihan terbaik menghadapi keausan, korosi serta kemoloran yang sering terjadi pada produk conveyor chain.

CULLENS akan konsisten menjaga kepercayaan yang telah diberikan. Pelayanan yang meliputi kualitas kontrol yang maksimal, dimulai dari proses tahap awal pemasangan hingga pemakaian, penyediaan Laporan Testing hingga Maintenance service, kami lakukan secara continue dan berkala untuk para konsumen.

CULLENS akan terus mengoptimalkan diri, melakukan riset pengembangan untuk mengoptimalkan pelayanan kami. CULLENS berkomitmen menjaga kepuasan serta kenyamanan yang tinggi dari setiap customer. Kualitas terbaik, pelayanan terbaik akan terus kami berikan, menjadi terdepan dalam melayani anda.

WELCOME TO CULLENS CHAIN

Introducing CULLENS next generation of roller chain. Our new technology greatly increases our chain's fatigue strength and working loads. In most cases working loads have been increased up to 25%. These new superior capacity chains have the highest rated working loads of any ANSI standard chain. As usual, this latest break-through will be standard on CULLENS Chain.

CV. Barlia Engineering Support proudly presents the best product for conveyor chain with brands CULLENS. Produces by British or ANSI Standard, we are covering Palm Oil Mill Factory for its activities from starting to ending process. With many years in Palm Oil business, we know what you need and we present much better than your expectation. And same as to other industries, we create and present the maximum products with the best material and standards, pay more than just general but to every single detail.

CULLENS design with the latest technology and through fully tested international inspections for its material and composition. Whole actions with details will increase the strength and power of CULLENS, the best material in handling the wear, corrosion as well as elongation that often occur in conveyor chain system.

CULLENS stake its great name as a reputable Chain Supplier - not only bringing to you the best products but most of all CULLENS do delivering its Full Service after Sales.

Stock Readiness is one of our main concern to support your activities and we have more than 5 (five) branches offices complete with warehouse covering Kalimantan, Sulawesi and Sumatera in assuring you will get your goods in time with no worry.

We are committed to providing convenience and best quality with best services in all levels of wellbeing for all of its users.

You go forward with your goal and leave your worry for chains to be ours to handle.

OUR CHAIN TECHNOLOGY:

1. Stronger Bush

Bush performance has been increased 30% compare to competitor's chains.

2. Tougher Link Plates

Precise alloy steel fabrication and expertly-controlled heat treatment ensure greater shock load during severe application.

3. Stronger Pin

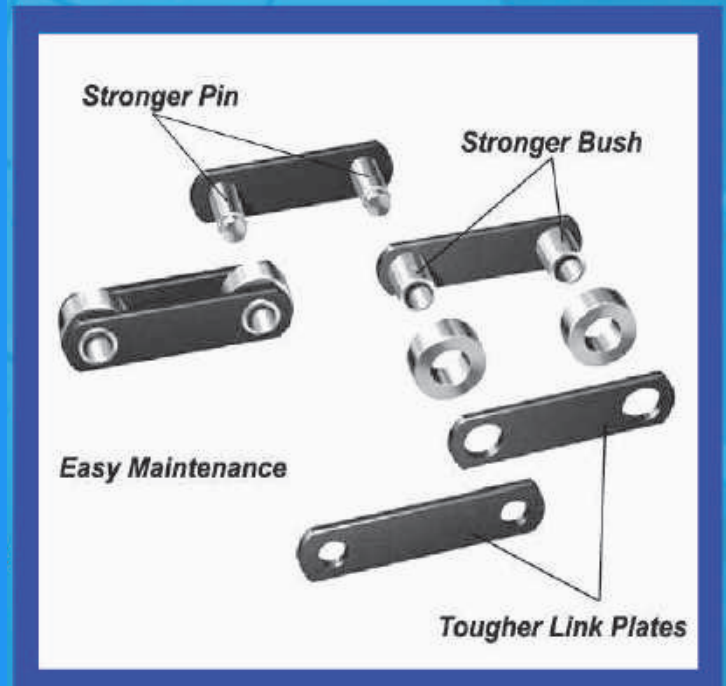
Competitor's cotter T-Pin have soft portions around the T-Pin head due to decarburization, effectly reducing the strength of the entire chain. CULLENS cotter pin have stable surface hardness from the head to the tail end.

4. Easy Maintenance

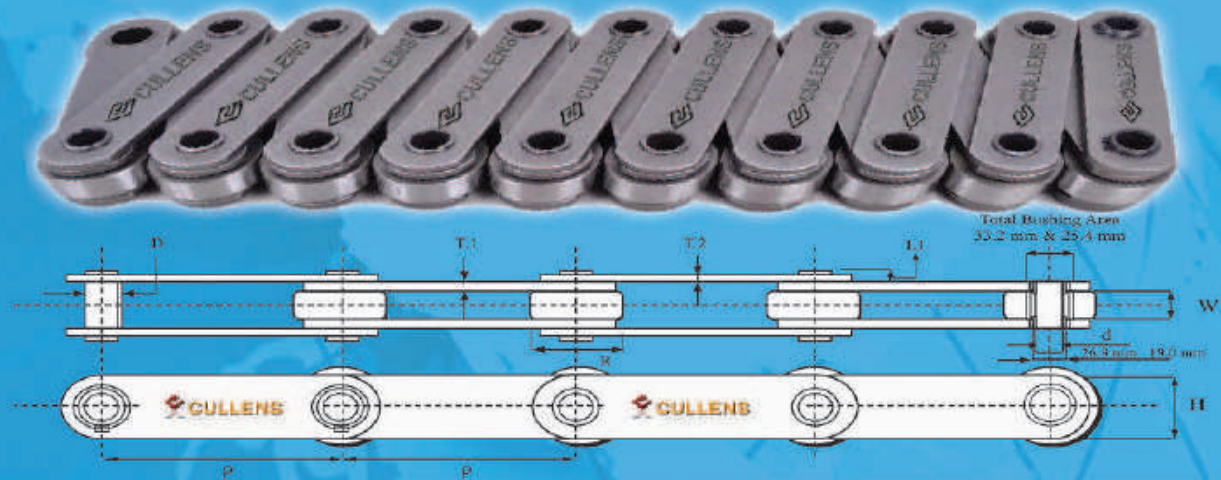
Cutting & joining is easier, especially when removing just a few links and rejoining when chain is stretched over.

5. Options Available For Heavy Duty

Heavy duty inclined conveyor usually need more load break force, our support is from 4" (inch) - 8" (inch) size.



HOLLOW PIN TYPE CONVEYOR CHAIN



HOLLOW PIN CHAIN TYPE

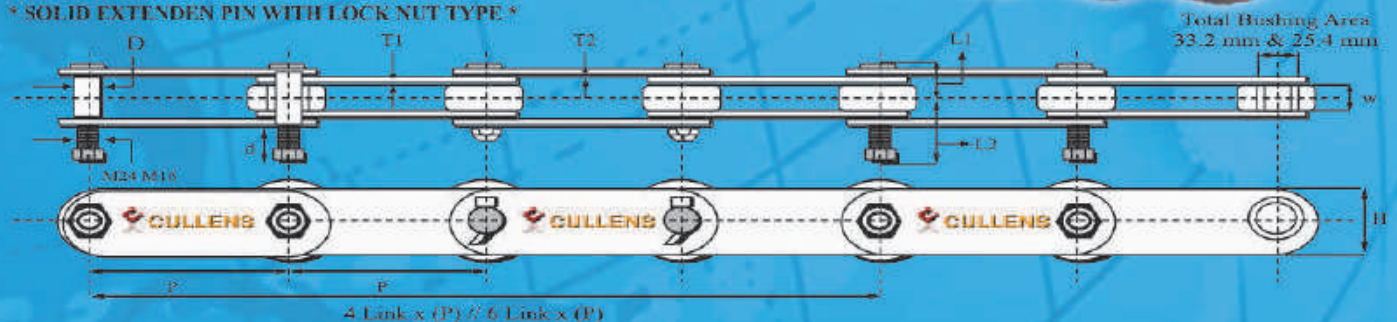
Chain No.	Pitch (P)	Inner Width (W)	Roller dia. (R)	Pin dia. (D)	Bush	Hollow Bore (d)	Plate Height (H)	Plate Thickness		Breaking Load	Weight (kg/m)
								(T1)	(T2)		
HC 128	101.6	19.0	47.6	20.0	19.0	13.2	38.1	5.1	5.1	28.000 Lbf	6.4
HC 129	101.6	25.4	66.7	28.0	26.9	20.1	50.8	7.1	5.1	45.000 Lbf	13.8
HC 628	152.4	25.4	66.7	28.0	26.9	20.1	50.8	7.8	7.8	50.000 Lbf	9.7

Denotes : Dimension in (mm)

SOLID EXTENDED PIN WITH LOCK NUT TYPE CONVEYOR CHAIN



* SOLID EXTENDED PIN WITH LOCK NUT TYPE *



SOLID EXTENDED PIN WITH LOCK NUT TYPE

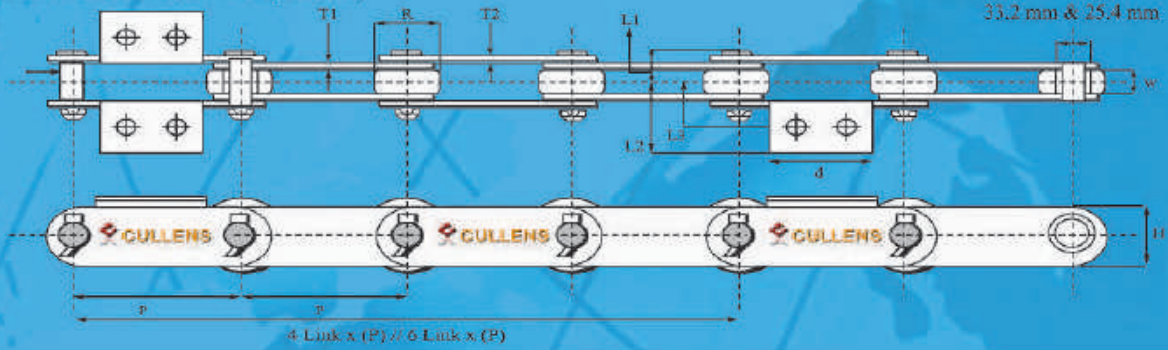
Chain No.	Pitch (P)	Inner Width (W)	Roller dia. (R)	Pin dia. (D)	(L1)	(L2)	Plate Height (H)	Plate Thickness		Breaking Load	Pin (d)	Lock Nut	Weight (kg/m)
								(T1)	(T2)				
ST 128	101.6	19.0	47.6	19.0	24.1	57.7	38.1	5.1	5.1	26.000 Lbf	36	M16	8.4
ST 129	101.6	25.5	66.7	26.9	31.9	70.1	50.8	7.1	5.1	45.000 Lbf	36	M16	10.2
ST 628	152.4	25.4	66.7	26.9	31.9	70.1	50.8	7.1	5.1	50.000 Lbf	44	M24	12.8
ST 628	152.4	25.4	66.7	26.9	37.0	73.5	50.8	7.8	7.8	70.000 Lbf	44	M24	14.3
ST 688	203.2	37.75	88.9	29.8	41.85	48.24	81.0	8.0	8.0	100.000 Lbf	64	M26	22.8

Denotes : Dimension in (mm)

SOLID WITH ATTACHMENT TYPE (A2/K2) CONVEYOR CHAIN



* SOLID WITH ATTACHMENT TYPE (4A / K 2)

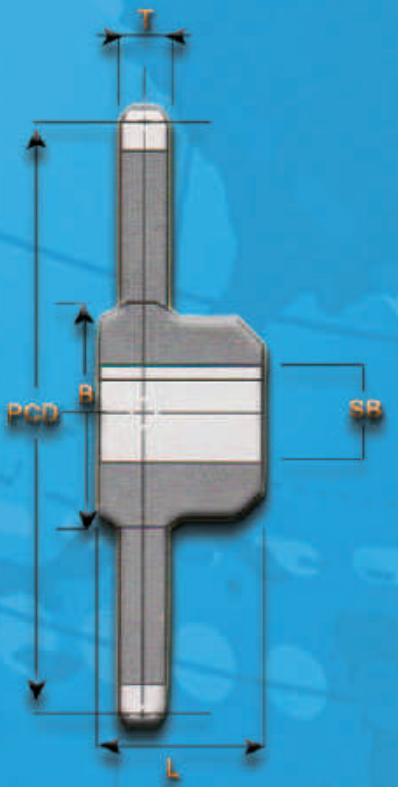


SOLID WITH ATTACHMENT TYPE (A2/K2)													
Chain No.	Pitch (P)	Inner Width (W)	Roller dia. (R)	Pin dia. (D)	(L1)	(L2)	(L3)	Plate Thickness		Plate Height (H)	Attachment Area (d)	Breaking Load	Weight (kg/m)
								(T1)	(T2)				
ST 128 (A2/K2)	101.6	19.0	47.6	19.0	24.1	68.0	44.5	5.1	5.1	38.1	63.5	26.000 Lbf	8.4
ST 628 (A2/K2)	152.4	25.4	66.7	26.9	37.0	78.5	54.0	7.8	7.8	50.8	107	70.000 Lbf	14.3

Denotes : Dimension in (mm)

SPROCKET CONVEYOR CHAIN

SPROCKET CONVEYOR CHAIN (CAST STEEL & CAST IRON)									
Sprocket No	Pitch mm	Roller Dia/mm	QYT Teeth	Pitch Circle (PC) Dia/mm	Shaft Bore (SB) Dia/mm	T mm	L mm	Bush (B) Dia	Weight (kg/pc)
128	101.6	47.6	8	300	100	16	100	150	15
			10	360	100	16	100	150	20
			12	420	100	16	100	150	25
			16	555	100	16	100	150	39
129	101.6	66.7	8	266.5	80	16	122	150	28
			10	323.8	80	16	122	150	35
			12	392.6	100	16	122	150	43
			16	520.8	100	16	122	150	55
628	152.4	66.7	8	420	150	22	122	200	46
			10	543	150	22	122	200	58
			12	638	150	22	122	200	76
			16	830	150	22	122	200	120
			21	1070	150	22	122	200	140



Denotes :

PCD : Pitch Circle Diameter L : Length of Bush

B : Bush SB : Shaft Bore

T : Thickness of Bush

INTERNATIONAL CERTIFICATE

Test Report No. 7191121180-MEC15-SL
dated 14 SEP 2015



100 Singapore

Product conformity
EN 12195

Before this report is issued, samples in 3/4" x 3/8" x 1/8" Heavy and Coarse Thread Economy Stainless Steel were
The terms and conditions of our testing apply to this certificate unless otherwise stated.

SUBJECT:

Breaking Load Test on Conveyor Chain

TESTED FOR:

PT. Binar Bintang Jaya Makmur
Koropak TOHO Block 6/21 - Rantai Indah Kijang
Jakarta Utara - Indonesia

Attn: Mr. Anto

SAMPLE SUBMISSION DATE:

01/09/2015

SAMPLE DESCRIPTION:

The following samples claim to be "Cullens" brand were submitted by:

1. ST028 70.000lbs
2. ST028 50.000lbs
3. ST128 20.000lbs



Photo 1 - Typical Sample received



Germany
TUV SUD No. 20
Friedrich-List-Platz
D-90471 Essen
Germany T1020

Phone: +49 201 470-1234
Fax: +49 201 470-1235
E-mail: service@tuv.com
www.tuv.com
In Singapore
Tel: 65 6336 8888

Regional Head Office
100 South Beach Parkway, Suite 100
33000 Fort Lauderdale, FL 33322
The United States of America
TUV

Page 1 of 5

Test Report No. 7191121180-MEC15-SL
dated 14 SEP 2015



100 Singapore

TEST METHOD:

The conveyor chain was fixed to the test fixture held by the jaw of the Universal Machine (refer to photo 2).
Tension test was gradually applied until failure occurred and the maximum force was then recorded.

TEST RESULTS:

Sample reference	ST028 70.000lbs	ST028 50.000lbs	ST128 20.000lbs
Max Load (kN)	328.3	312.3	155.1
Mode of failure	Break at one pin (refer to photo 3)	Break at one pin (refer to photo 4)	Break at one pin (refer to photo 5)

The above tests were witnessed by Mr. Anto and Mr. Hazlan of PT Binar Bintang Jaya Makmur
On 10th Sep 2015.



Gert Loh
Associate Engineer

G.H. Hoang Hien
Executive Engineer
Industrial Group
Mechanical Centre

Page 2 of 5

Test Report No. 7191121180-MEC15-SL
dated 14 SEP 2015



100 Singapore

APPENDIX (cont):



Photo 4 - Mode of failure (ST028 - 50,000lbs)



Photo 4 - Mode of failure (ST128 - 20,000lbs)

Test Report No. 7191121180-MEC15-SL
dated 14 SEP 2015



100 Singapore

APPENDIX:



Photo 2 - Typical Test Set Up



Photo 5 - Mode of failure (ST028 - 70,000lbs)

CULLENS CONVEYOR CHAIN

Hardness Testing Report

Pin Testing=HRC45

Plate Testing=HRC42

Roller Testing=HRC53



CULLENS CONVEYOR CHAIN

Breaking Load Strength Testing Report



TEST NO.	1001
DATE	10/10/10
TIME	10:00 AM
TESTER	W. J. J.
TEST TYPE	TENSILE
TEST NO.	1001
DATE	10/10/10
TIME	10:00 AM
TESTER	W. J. J.
TEST TYPE	TENSILE
TEST NO.	1001
DATE	10/10/10
TIME	10:00 AM
TESTER	W. J. J.
TEST TYPE	TENSILE



GALERIES

CULLENS
CONVEYOR CHAIN

1. Station Loading Ramp

Pada umumnya Station Loading Ramp di PKS mempunyai 3 Conveyor seperti merk CULLENS type ST125 (5") Every 6 Link 70.000 Lbf yaitu :

A. Horizontal Fresh Fruit Bunch (FFB) Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

1. Station Loading Ramp

B. Inclined Fresh Fruit Bunch (FFB) Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

1. Station Loading Ramp

C. Distribution Fresh Fruit Bunch (FFB) Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

2. Station Sterilizer

B. Inclined Sterilized Fruit Bunch (SFB) Conveyor (2" EQL 70.000 Lbf)

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

2. Station Sterilizer

C. Distribution Sterilized Fruit Bunch (SFB) Conveyor (4" EAL 25.000 Lbf)

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

3. Station Threshing

Pada Station Threshing di PKS mempunyai 1 Conveyor dengan merk CULLENS & type chain ST 126 (4") Every 4 Link 25.000 Lbf yaitu :

A. Auto Feeder Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

4. Station MPD

Pada Station Material Pile to Digester di PKS terdapat 1 Conveyor dengan merk CULLENS & type chain ST125 (6") Every 4 Link 70.000 Lbf yaitu :

A. Fruit Scrapper Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

5. Station Empty Bunch

Pada Station six ply Bunch di PKS terdapat 2 Conveyor dengan merk CULLENS & type chain ST128 (4") Every 4 Link 26.000 Lbf yaitu :

A. Horizontal Empty Bunch Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

5. Station Empty Bunch

B. Inclined Empty Bunch Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

6. Station Crack Mixture

Pada Station Crack Mixture di PKS terdapat 1 Conveyor dengan merk CULLENS & type chain ST126 (4") Every 4 Link 25.000 Lbf yaitu :

A. Crack Mixture Elevator Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

7. Station Nut & Kernel

Pada Station Nut & Kernel di PKS terdapat 2 Conveyor dengan merk CULLENS & type chain ST126 (4") Every 4 Link 25.000 Lbf yaitu :

A. Nut Elevator Conveyor

Before Commissioning After Commissioning

CULLENS
CONVEYOR CHAIN

8. Station Fuel Boiler

Pada Station Fuel Boiler di PKS terdapat 2 Conveyor dengan merk CULLENS & type chain ST126 (4") Every 4 Link 25.000 Lbf yaitu :

A. Inclined Fibre & Shell Conveyor

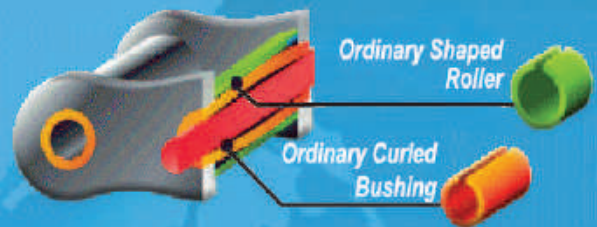
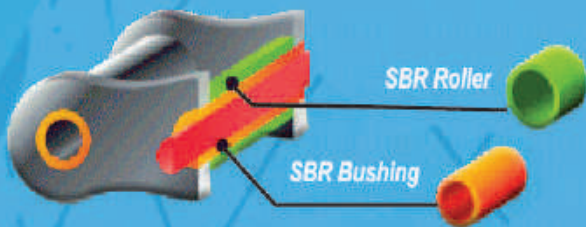
Before Commissioning After Commissioning

OUR PRODUCTS

Split Bushing and Solid Bushing

Solid bushings have high rigidity and good fully cylinder through integral molding. When plates are pressed on, the bushings are not easy to deform. These allow the pins to have full contact with the bushings. Without seams to cause leaking, the solid bushings effectively maintain the lubricant.

Therefore, the roller chains with solid bushings and rollers have superior wear resistance and longer working life than split ones.



BEFORE ASSEMBLY

AFTER ASSEMBLY

BEFORE ASSEMBLY

AFTER ASSEMBLY

SPROCKETS



Chain Coupling

Flexible Coupling

NM Coupling

MH Coupling



GE Coupling

Nylon Sleeve Coupling

Jaw Coupling

HRC Coupling





CV. BARLIA ENGINEERING SUPPORT

POWER TRANSMISSION INDUSTRIAL



WWW.CULLENSCHAIN.COM

**JL. IRKAB NO.4, ARIFIN AHMAD, KEL.SIDOMULYO TIMUR, KEC.MARPOYAN DAMAI
KOTA PEKANBARU**

TELP : 0821-7102-8285

JOECULLENSCHAIN@GMAIL.COM (JOE 0813-6536-7689)

SUMATERA

Jl.Irkab No.4, Arifin Ahmad, Kel.Sidomulyo Timur, Kec.Marpoyan Damai Kota Pekanbaru

KALIMANTAN BARAT

Jl. Mayor Alianyang (Trans Kalimantan), Kawasan Pergudangan Borneo Business Icon No. C18, Desa Durian, Dec Sui Ambawang, Kab Kubu Raya, Kalimantan Barat.

KALIMANTAN TENGAH

Komplek Pergudangan KUSUKA
Jl. HM. Arsyad No. 13B Sampit

KALIMANTAN SELATAN

Jl. Sriwijaya Perum Citra Pesona Langit B04, Landasan Ulin Utara
Kec Liang Anggang - Banjar Baru

KALIMANTAN TIMUR

Jln. Ring Road I-Tembusan jalan Jakarta 1 no.88, Kecamatan Lok Bahu Kelurahan Sungai Kunjang, Samarinda - Kalimantan Timur