

<p>Phase and submission type <input type="radio"/> Phase 1 <input type="radio"/> Phase 2 <input checked="" type="radio"/> Phase 3 <input type="radio"/> Interim (Non-PPAP)</p>	<h2 style="margin: 0;">PPAP Submission Warrant</h2>																
PART INFORMATION																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Part Name <u>Agrafe supp B6,2x12,2</u></td> <td style="width: 50%;">Cust. Part Number <u>3031233810 / FU5T-14E044-LA</u></td> </tr> <tr> <td>Shown on Drawing Number <u>30312338</u></td> <td>Organization Part Number <u>303 123 381 013</u></td> </tr> <tr> <td>Engineering Change Level <u>D-</u></td> <td>Dated <u>22/12/2015</u></td> </tr> <tr> <td>Additional Engineering Changes <u>n/a</u></td> <td>Dated <u>n/a</u></td> </tr> <tr> <td>Safety and/or Government Regulation <input type="radio"/> Yes <input checked="" type="radio"/> No</td> <td>Purchase Order No. <u>1500001381</u> Weight (kg) <u>0,0078</u></td> </tr> <tr> <td>Checking Aid Number <u>n/a</u></td> <td>Checking Aid Engineering Change Level <u>n/a</u> Dated <u>n/a</u></td> </tr> </table>		Part Name <u>Agrafe supp B6,2x12,2</u>	Cust. Part Number <u>3031233810 / FU5T-14E044-LA</u>	Shown on Drawing Number <u>30312338</u>	Organization Part Number <u>303 123 381 013</u>	Engineering Change Level <u>D-</u>	Dated <u>22/12/2015</u>	Additional Engineering Changes <u>n/a</u>	Dated <u>n/a</u>	Safety and/or Government Regulation <input type="radio"/> Yes <input checked="" type="radio"/> No	Purchase Order No. <u>1500001381</u> Weight (kg) <u>0,0078</u>	Checking Aid Number <u>n/a</u>	Checking Aid Engineering Change Level <u>n/a</u> Dated <u>n/a</u>				
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ORGANIZATION MANUFACTURING INFORMATION																	
<p><u>pb elektro vertriebs-gmbh</u> Organization Name and Supplier/vendor Code</p> <p><u>Robert-Bosch-Strasse 16</u> Street Address</p> <p><u>Groß-Umstadt</u> <u>HE</u> <u>64823</u> <u>Germany</u> City Region Postal code Country</p>																	
CUSTOMER SUBMITTAL INFORMATION																	
<p><u>Nursan Elektrik Donanım A.Ş.</u> Customer Name/Division</p> <p><u>Gulcin Akbas</u> Buyer/Buyer Code</p> <p><u>Ford Transit</u> Application</p>																	
MATERIALS REPORTING																	
Has customer-required Substances of Concern information been reported? <input checked="" type="radio"/> Yes <input type="radio"/> No																	
Submitted by IMDS or other customer format: <u>IMDS</u>																	
If submitted by IMDS, enter Module ID number, version and date transmitted <u>ID: 767346959</u>																	
Are polymeric parts identified with appropriate ISO marking codes? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> n/a																	
REASON FOR SUBMISSION (Check at least one)																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Initial submission <input type="checkbox"/> Engineering Change(s) <input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional <input type="checkbox"/> Correction of Discrepancy <input type="checkbox"/> Tooling Inactive > than 1 year </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Change to Optional Construction or Material <input type="checkbox"/> Supplier or Material Source Change <input type="checkbox"/> Change in Part Processing <input type="checkbox"/> Parts produced at Additional Location <input checked="" type="checkbox"/> Other - please specify below </td> </tr> </table>		<input checked="" type="checkbox"/> Initial submission <input type="checkbox"/> Engineering Change(s) <input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional <input type="checkbox"/> Correction of Discrepancy <input type="checkbox"/> Tooling Inactive > than 1 year	<input type="checkbox"/> Change to Optional Construction or Material <input type="checkbox"/> Supplier or Material Source Change <input type="checkbox"/> Change in Part Processing <input type="checkbox"/> Parts produced at Additional Location <input checked="" type="checkbox"/> Other - please specify below														
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REQUESTED SUBMISSION LEVEL (Check one)																	
<input checked="" type="radio"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer. <input type="radio"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer. <input type="radio"/> Level 3 - Warrant with product samples and complete supporting data submitted to customer. <input type="radio"/> Level 4 - Warrant and other requirements as defined by customer. <input type="radio"/> Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.																	
SUBMISSION RESULTS																	
The results for <input checked="" type="checkbox"/> dimensional measurements, <input checked="" type="checkbox"/> material and functional tests <input type="checkbox"/> appearance criteria <input type="checkbox"/> statistical process package These results meet all design requirements <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. (If "No" - Explanation Required). Mold / Cavity / Production Process(es) <u>1 / 32 / Plastic injection</u>																	
DECLARATION																	
I affirm that the samples represented by this warrant are representative of our parts which were made by a process which meets all Production Part Approval Process Manual 4th Edition requirements. I further affirm that these samples were produced at the production rate of <u>70800</u> / <u>8</u> production streams. I also certify that documented evidence of such compliance is on file and is available for review. I have noted any exceptions from this declaration below.																	
EXPLANATION/COMMENTS <u>pb report QE-18-1285 based on manufacturer's report by ITW</u> <u>Basis for manufacturing are OEM / manufacturers spec. only. Carry-over part. RoHS/ELV/REACH compliant.</u>																	
<table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Organization Authorized Signature <u>b.o. [Signature]</u></td> <td style="width: 20%;">Print Name <u>Welpe, Monika</u></td> <td style="width: 40%;">Date <u>19/09/2018</u></td> </tr> <tr> <td>Title <u>QA Assistance</u></td> <td>Phone No. <u>0049 6078 7809 0</u></td> <td>Fax: <u>0049 6078 74447</u></td> </tr> </table>		Organization Authorized Signature <u>b.o. [Signature]</u>	Print Name <u>Welpe, Monika</u>	Date <u>19/09/2018</u>	Title <u>QA Assistance</u>	Phone No. <u>0049 6078 7809 0</u>	Fax: <u>0049 6078 74447</u>										
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Title <u>QA Assistance</u>	Phone No. <u>0049 6078 7809 0</u>	Fax: <u>0049 6078 74447</u>															
Is each Customer Tool properly tagged and numbered? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> n/a Email <u>info@pb-fastener.de</u>																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; margin: 0;">FOR OEM/CUSTOMER USE ONLY</p> <p style="text-align: center; margin: 0;">PPAP Non-PPAP™</p> <p>Phased PPAP Warrant Status: <input type="radio"/> Approved <input type="radio"/> Rejected <input type="radio"/> Interim Accepted</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 20%;">STA Signature</td> <td style="width: 20%;"></td> <td style="width: 20%;">Name</td> <td style="width: 40%;"></td> </tr> <tr> <td>Date</td> <td></td> <td>e-mail</td> <td></td> </tr> <tr> <td>P.D. Signature ^{a/}</td> <td></td> <td>Name</td> <td></td> </tr> <tr> <td>Date</td> <td></td> <td>e-mail</td> <td></td> </tr> </table> <p style="font-size: small; margin-top: 5px;">a/ Non-PPAP indicates the part does not satisfy one or more PPAP requirements and is incomplete b/ P.D. signature for Priority suppliers on GPDS programs</p> </div> <div style="width: 50%;"> <p style="text-align: center; margin: 0;">Interim Status (to be completed by the Organization)</p> <p>Engineering Authorization <u>Alert, Temp. PCM, TPD Number</u></p> <p>Description: (Incomplete PPAP Requirements) _____</p> </div> </div>		STA Signature		Name		Date		e-mail		P.D. Signature ^{a/}		Name		Date		e-mail	
STA Signature		Name															
Date		e-mail															
P.D. Signature ^{a/}		Name															
Date		e-mail															
<div style="display: flex; justify-content: space-between; font-size: x-small;"> April 2008 The original copy of this document shall remain at the supplier's location while the part is active A4 paper size format </div>																	

Production Part Approval Dimensional Test Results

PART NUMBER: ITW : 303123
PART NAME: Agrafe supp B6,2x12,2
DESIGN RECORDED CHANGE LEVEL:
ENGINEERING CHANGE DOCUMENTS:

17/04/218



Production Part Approval Performance Test Results

[illegible]

Blanket statements of conformance are unacceptable for any test results.

March
2006

CFG-1005

Signature _____

Ozlem GONC

Title

QA Engineer

Date _____

17/04/2018

NYLFOR®

A1 E6/2D H2 NERO Y1

Prove di autoestinguenza

Flammability test

Metodo test Test method	Valore richiesto Requested value	Risultati Results
FMVSS 302	Velocità di combustione Burning rate: < 100 mm/min	PASS(*)

Note()*: tested on (100*300*4)mm injected plates

* I dati riportati sono i risultati di prove eseguite in laboratorio. Sono riportati a titolo indicativo e devono essere considerati come valori medi, forniti senza alcuna responsabilità da parte nostra.

* The data of this bulletin are the result of laboratory tests and being average values are provided only for general guidance. So.F.Ter. accepts no liability for the results obtained therefrom.

rev. 2.0

June 2017



SO.F.TE.R. SPA
sede legale, stabilimento di Forlì
via Mastro Giorgio 1
47122 Forlì Italy
tel +39 0543 790 411
fax +39 0543 473 119
softer@softerspa.com

stabilimento di Ferrara
via Marconi 73
44122 Ferrara Italy
tel +39 0532 2285 0011
fax +39 0532 2285 0041
www.softergroup.com

P.IVA/VAT Nr IT 02019080403
C.F./R.I. 09211800157
R.E.A. FC n. 233925
Cap. Soc. € 10.000.000 i.v.
Socio Unico Celanese
Sales Italy S.r.l.

Forlì, 14/07/2017

Subject: NYLFOR® - Candidate List - SVHC

Dear Customer,

based on information received from our suppliers of raw materials, So.F.Ter. Spa informs you that the following family of products:

NYLFOR®

does not contain substances that are currently included in the candidate list above the threshold of 0.1% (w / w). You can check the updated list of SVHCs at the following address:

<http://echa.europa.eu/web/guest/candidate-list-table>

Please note that the use of these substances is not prohibited, but the inclusion in the Candidate List indicates that their use may be subject to authorization by ECHA, as required by Article 59 (1 -10) of the European Regulation N° 1907/2006 (REACH).

This statement is based on the current state of our knowledge and experiences and it refers only to the product supplied from our factory in its form and in its original package.

Do not hesitate to contact us in case you need further information.

Kind regards,

SO.F.TE.R. SPA

Dr. Michele Pontevivo

michele.pontevivo@softerspa.com

tel +39 0543 790411





CERTIFICATE



This is to certify that

ITW EF&C France SAS

4 rue du Wittholz
67340 Ingwiller
France

has implemented and maintains a **Quality Management System**.

Scope:

Design and manufacturing of plastic technical parts

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949:2009

(with product design)

Certificate registration no.	304897 TS09
Issuing date	2017-07-24
This certificate is valid until	2018-09-14
IATF No.	0270089



2-IAO-QMC-01001

For and on behalf of DQS

Frank Graichen
Managing Director, DQS GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 304897 TS09
IATF-No.: 0270089

ITW EF&C France SAS

4 rue du Wittholz
67340 Ingwiller
France



2-IAO-QMC-01001

Remote Location

500344
ITW Fasteners Products GmbH
Am Pulverhäuschen 7
67677 Enkenbach-Alsenborn
Germany

Scope

Information Technology, Purchasing, Sales,
Strategic planning



CERTIFICATE



This is to certify that

ITW EF&C France SAS

4 rue du Wittholz
67340 Ingwiller
France

has implemented and maintains an **Environmental Management System**.

Scope:

Production of technical parts, plastic fastener systems by injection for the automotive industry

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 14001 : 2015

Certificate registration no. 304897 UM15

Valid from 2017-07-07

Valid until 2020-07-06

Date of certification 2017-07-07



DQS GmbH

Frank Graichen
Managing Director



Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany

DEST	PCA SOCHAUX	ADR	895G6B	EDITION	ITW EF&C France SAS
PROTE		LIVR			
N°					

Produit		Poids net		Quantité UM	
N° (PN)	9800498880	KGM	30	UM ou UC	
		Poids brut			
		KGM			
		DATE	D151123	Date de fabrication	
		DESCRIPTION	PATTE SUPPORT AV BATTERIE		
		NOMBRE	Désignation interne ITW		
		REF FOURNISSEUR (S)	311099390072		
		N° DE LOT	32404	INDICE DE MODIFICATION	00
		CODE VENDOR (V)	18488V		

Site de l'expéditeur: ITW EF&C France SAS, 4, rue du Minéral

P. 19


N° de lot Indice plan client

GENERIC FILE


N° DG 001

DATE	LEVEL	MODIFICATION / EVOLUTION	COMMENTS
05/02/1997	1	Creation	
31/05/1999	2	Control plan update -Product Family (F14 and F21) - list of procedures-instructions-document	
23/11/1999	3	Control plan update	
20/12/1999	4	Addition Safety & regulation symbol on control plan	
26/02/2001	5	Control plan update	
17/01/2002	6	Annex documentation update	
27/08/2003	7	Annex documentation update	
06/11/2003	8	additionnal family product F15 et F24. Procedure number update	
02/11/2005	9	Adding raw material moisture rate control + gage device control	
11/09/2006	10	additionnal family product F25 gage device control during assembly process update	
02/06/2008	11	Complet review	
24/06/2008	12	Weighting machine control adding (Tare at production start + check during LPA)	
15/09/2008	13	Complet review (raw material control according control plan, Automatic machine's parameter checking)	
09/07/2009	14	DQS Audit : adding product audit in control plan	
11/12/2013	15	Update according internal audit	
05/05/2014	16	Poka-Yoke integration	
26/09/2016	17	New logo	

Checked, and approved by E. PALFRAY Visa :

 Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16 Level : 17
SUMMARY		Page : 1/1
Checked, and approved by E. PALFRAY		

- 1) Glossary
- 2) procedure/instruction/documentation List
- 3) Family products
- 4) Flow chart
- 5) Control plan

 Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16 Level : 17
GLOSSARY		Page : 1/1
Checked, and approved by E. PALFRAY		

B

B.L. : Delivery Note

D

D.S. : Start or production

M

Training manuel : Training manuel for worker in production

N

N.C. : Non Conform

O

O.F. : Production order

P


P.L.A. : Plant Layered Audits

Q

QSYS : Quality software


X

XPPS : Production management software

 Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
LIST		Level : 17
Checked, and approved by E. PALFRAY		Page : 1/3

PROCEDURE

PB 20 : Traitement des non conformités
PE 10 : Traitement de la commande client
PE 20 : Planification et ordonnancement de production
PE 30 : Gestion des approvisionnements
PE 40 : Réception
PE 50 : Fabrication
PE 60 : Expédition
PE 70 : Identification et traçabilité
PE 80 : Maintenance
PE 90 : Gestion des ECME
PE 100 : Gestions des fins de série
PE 110 : Traitement des non-conformités en réception
PE 120 : Traitement des non-conformité en production ou suite à un audit
PE 130 : Gestion de la maintenance moule
PG 20 : Gestion des audits
PG 40 : Gestion de la documentation
PG 60 : Définition et suivi des actions correctives

 Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16 Level : 17
LIST		Page : 2/3
Checked, and approved by E. PALFRAY		

INSTRUCTIONS

Manuel de formation.


IP 055 : Règles impératives à l'atelier

IP 024 : Utilisation des imprimantes code à barre stipe 500

IP 034 : Alimentation centralisée

IP 052 : Température d étuvage

IP 059 : Gestion des lots non conformes

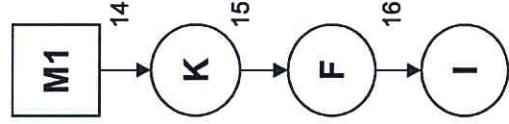
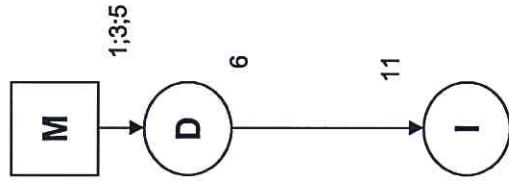
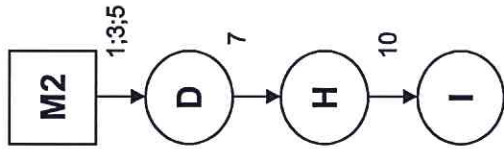
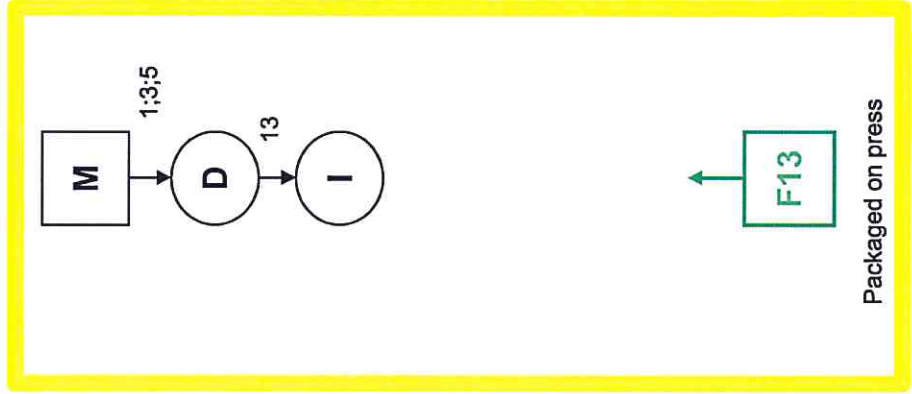
 Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16 Level : 17
LIST		Page : 3/3
Checked, and approved by E. PALFRAY		

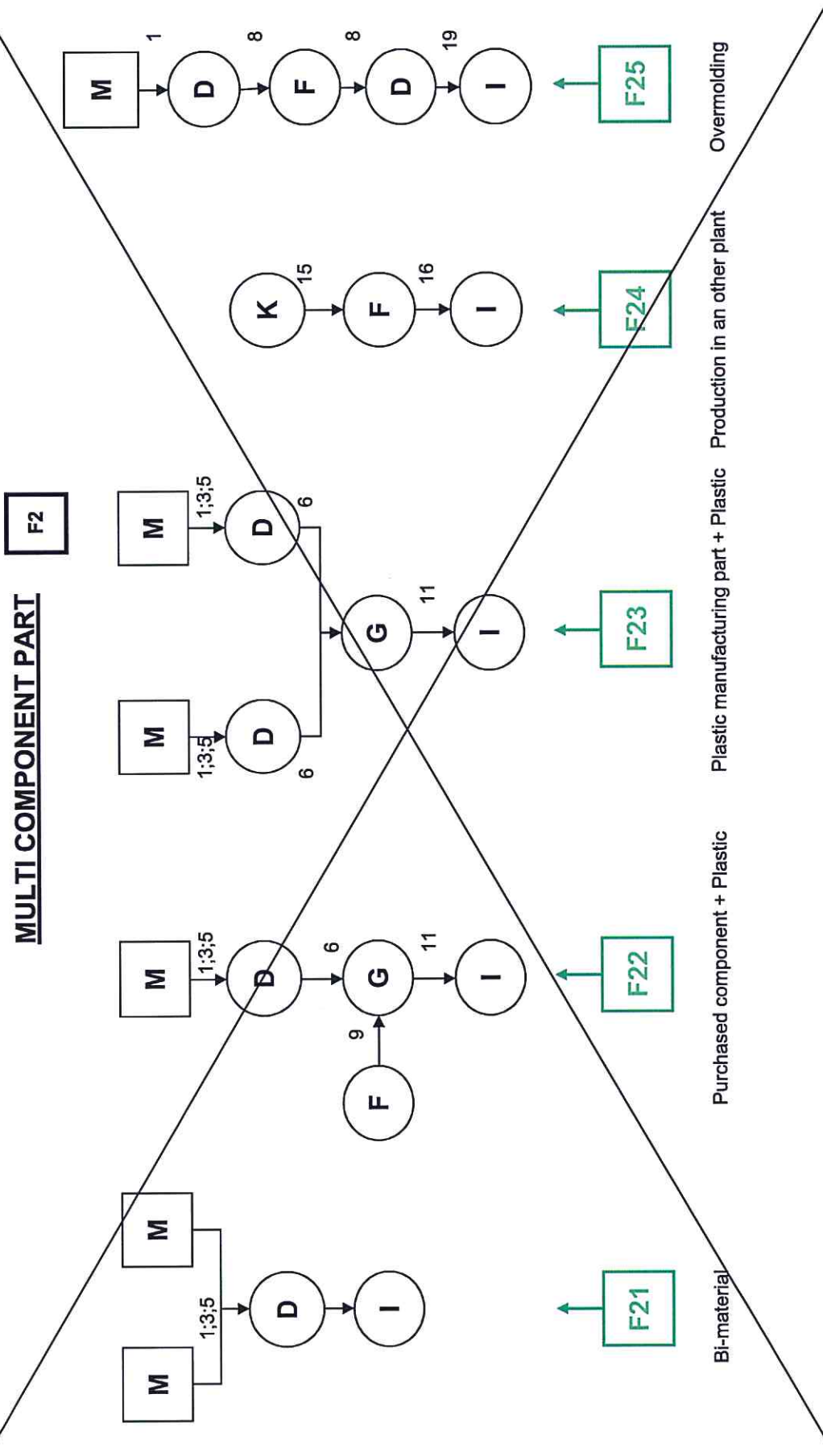
DOCUMENTS

DM 005	Fiche de réglage
DM 017	Fiche de suivi moule
DQ 006	Rapport de contrôle
DQ 115	Annexe au plan de contrôle
DP 013	Lot non conforme
DP 091	Document d'enregistrement Poka Yoke pour la production

MONO - COMPONENT PART

F1

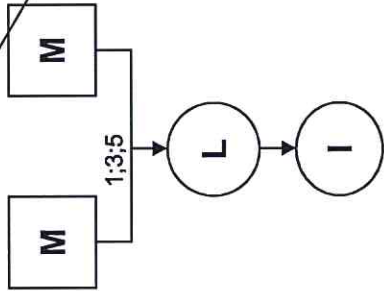





 Engineered Fasteners & Components	GENERIC FILE N° DG 001		Date : 26/09/16
			Level : 17
	PRODUCT FAMILY		Page : 3/4
Checked, and approved by E. PALFRAY			

MULTI-COMPONENT PART WITH MISTAKE PROFING


F3



F26

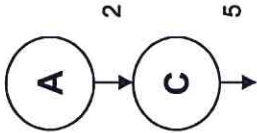
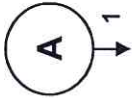
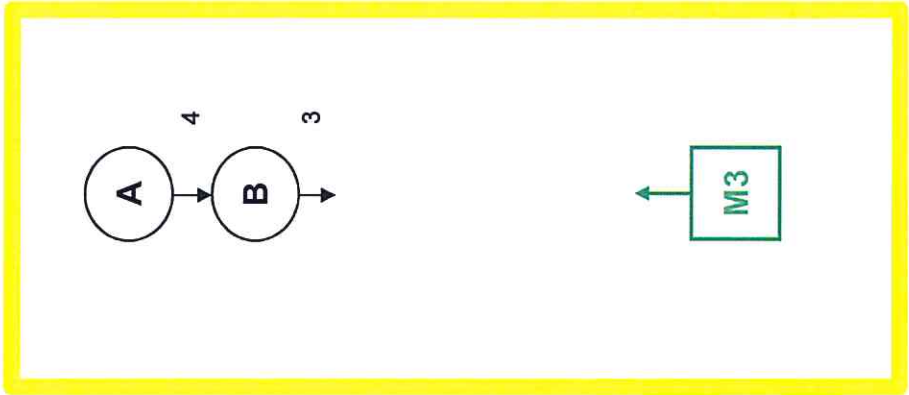


Bi-material with mistake profing

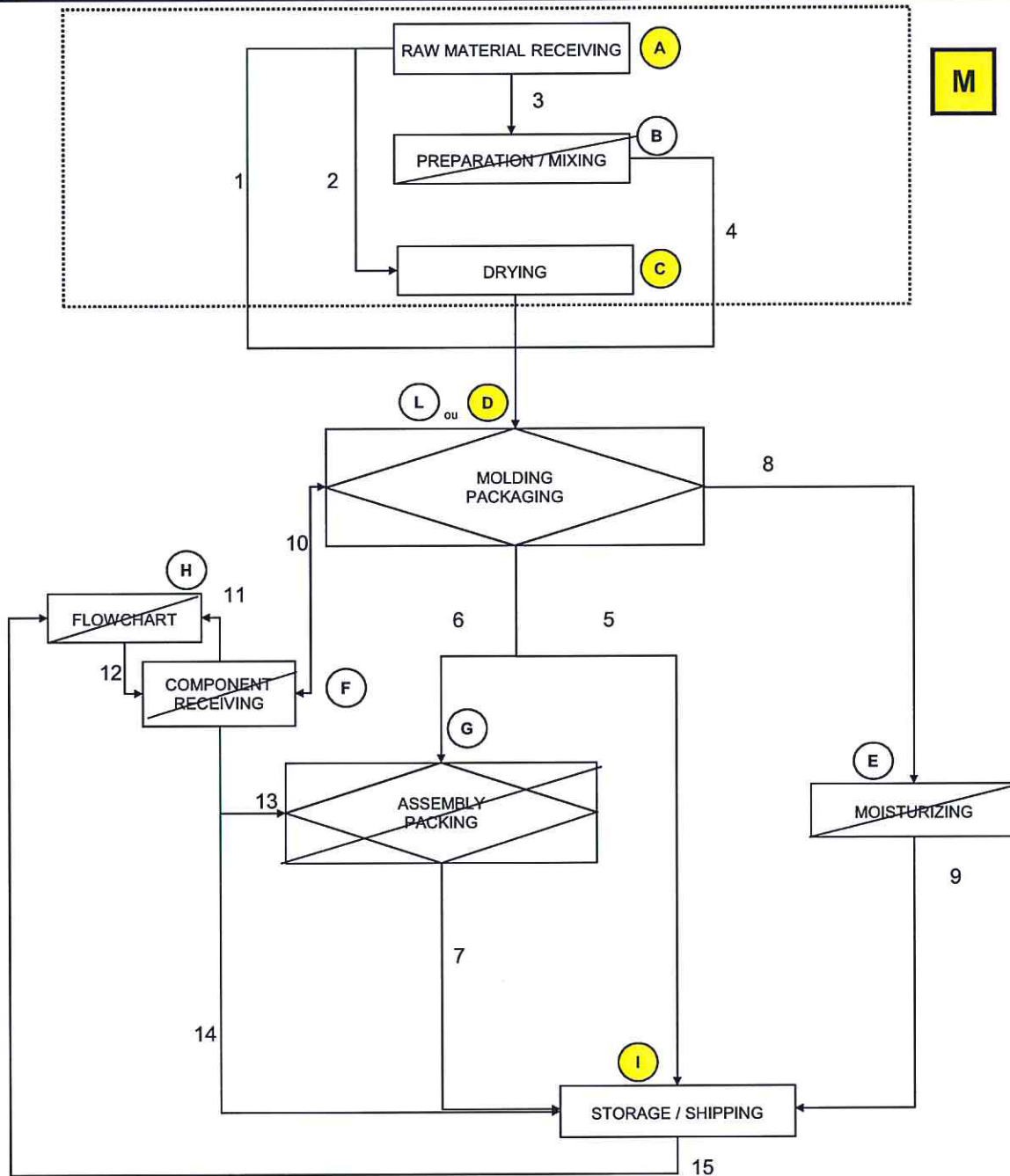
 Engineered Fasteners & Components	GENERIC FILE N° DG 001		Date : 26/09/16
	PRODUCT FAMILY		Level : 17
	Checked, and approved by E. PALFRAY		Page : 4/4

M

MATERIAL PROVISION



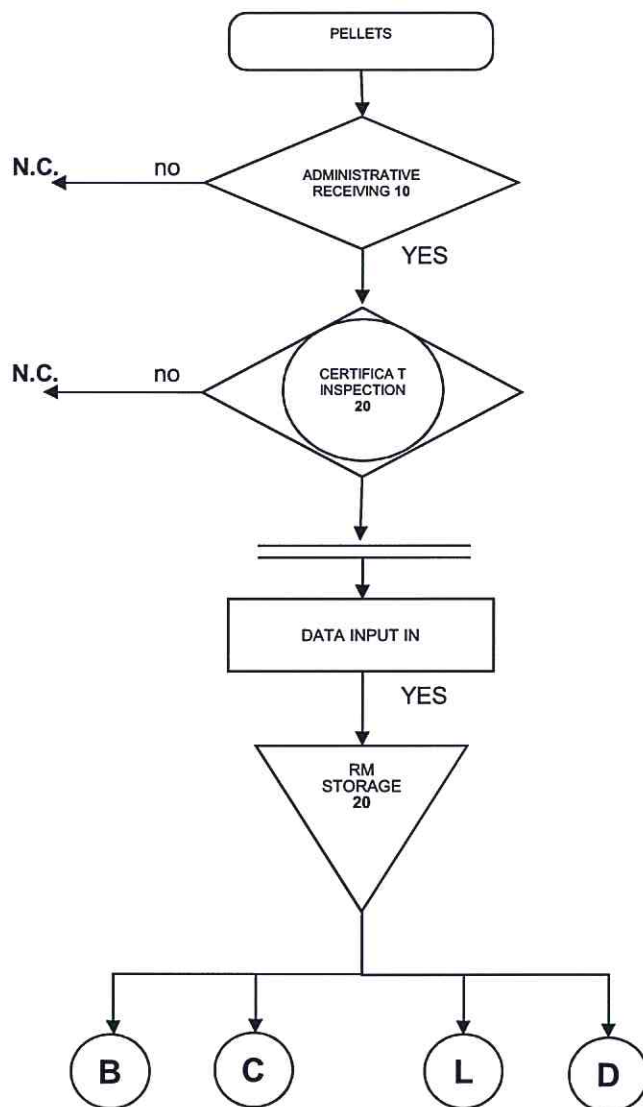
ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Page : 1/10
Checked, and approved by E. PALFRAY		



ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Page : 2/10
Checked, and approved by E. PALFRAY		

RAW MATERIAL RECEIVING

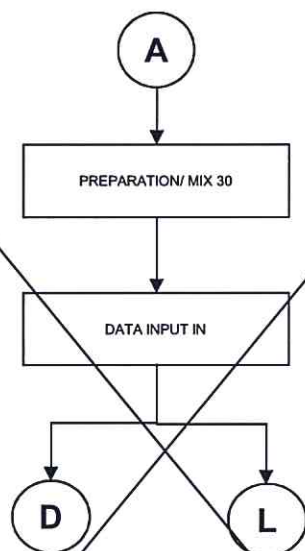
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ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Level : 17
Checked, and approved by E. PALFRAY		Page : 3/10

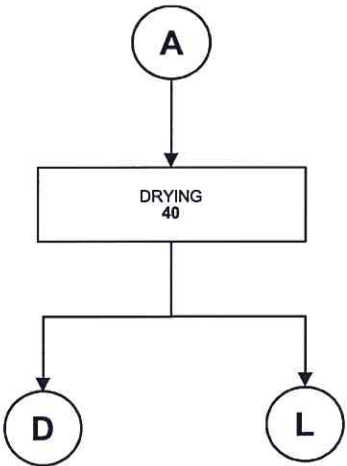
PREPARATION / MIX

B



ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
		Level : 17
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Page : 4/10
Checked, and approved by E. PALFRAY		

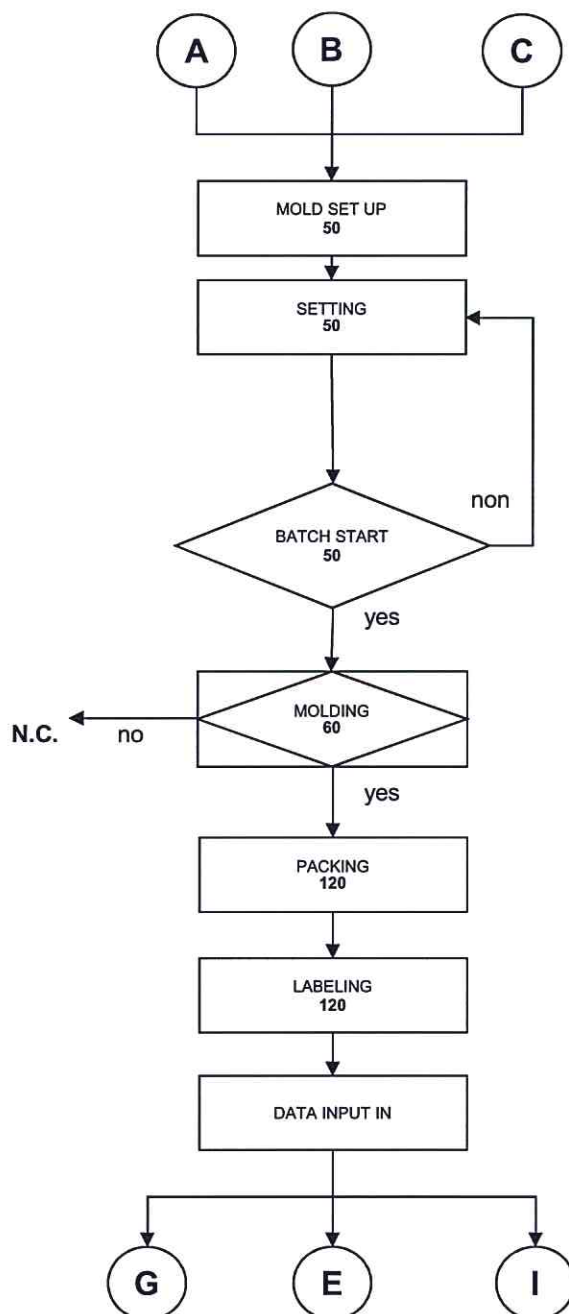
DRYING



ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Level : 17
Checked, and approved by E. PALFRAY		

MOLDING / PACKING

D

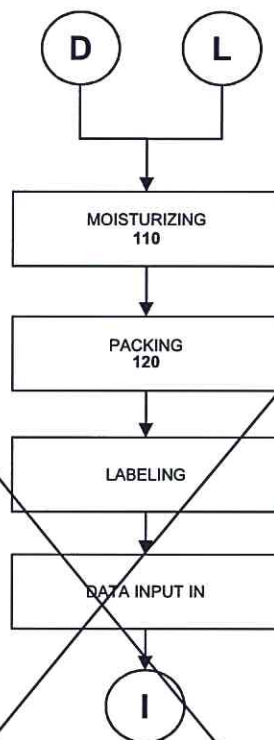


**MANUFACTURE AND CONTROL FLOWCHART PER
OPERATION**

Checked, and approved by E. PALFRAY

MOISTURIZING / PACKING

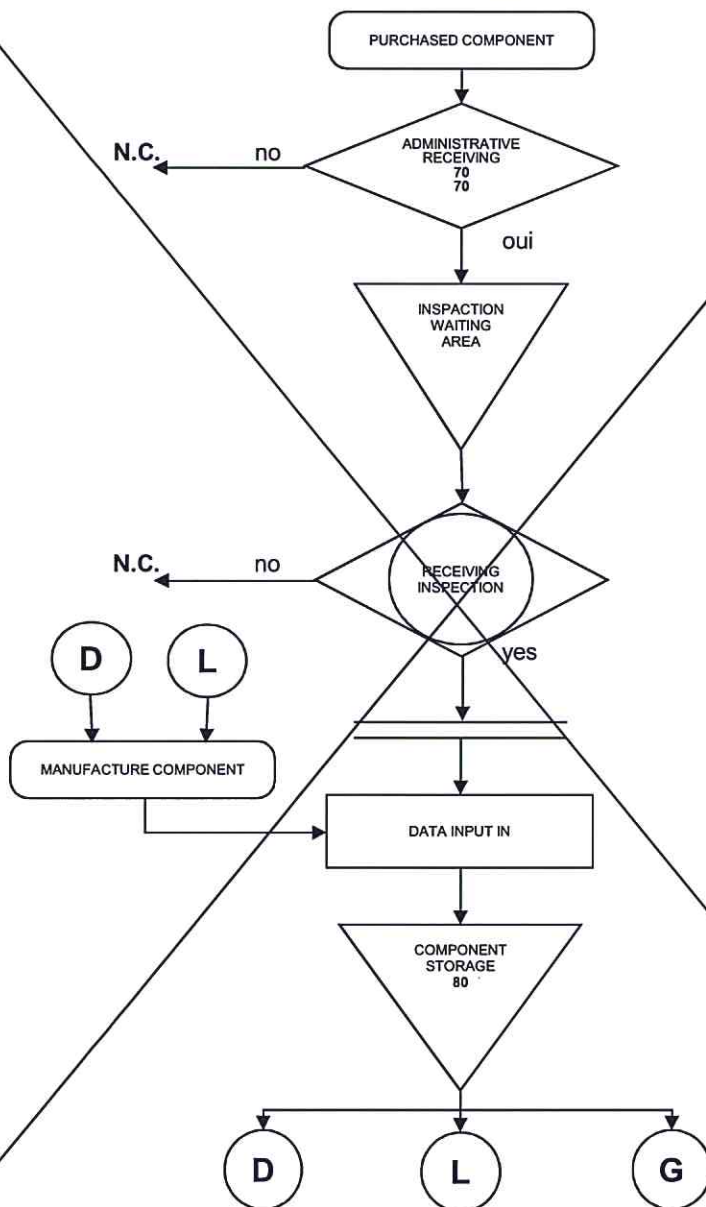
E



Checked, and approved by E. PALFRAY

PURCHASE COMPONENT RECEIVING

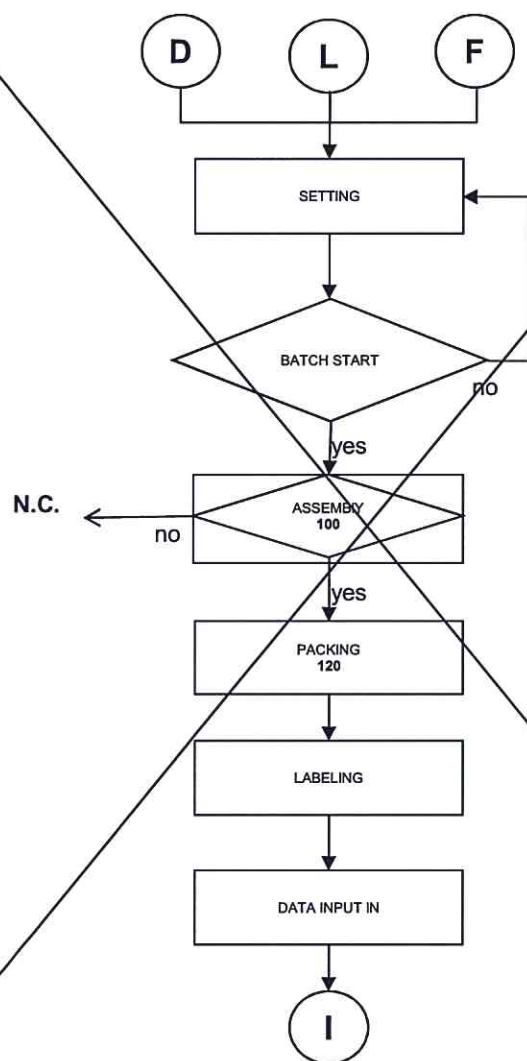
F



ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
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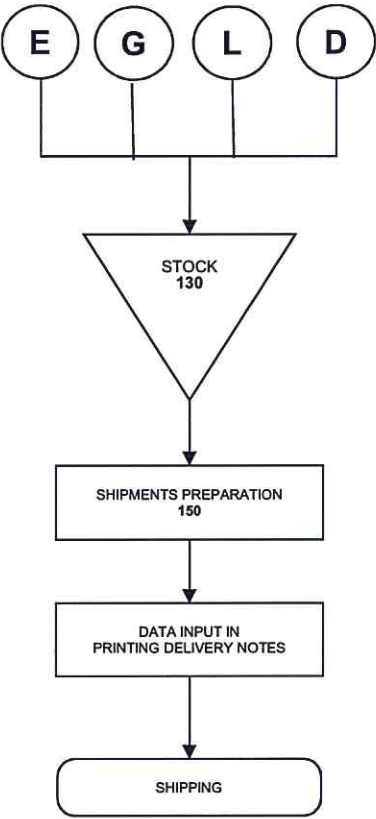
ASSEMBLY / PACKING

G



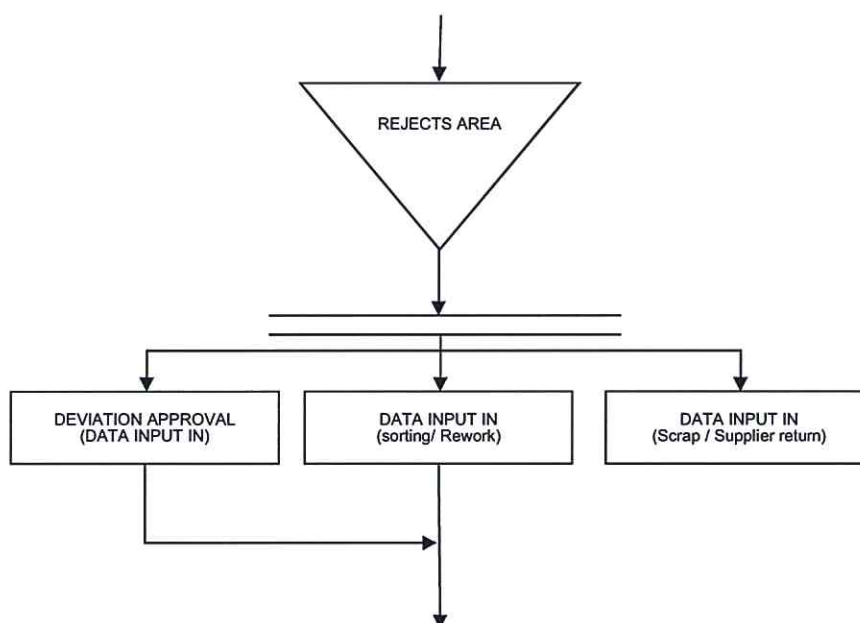
ITW Automotive Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
		Level : 17
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Page : 9/10
Checked, and approved by E. PALFRAY		

STORAGE / SHIPPING

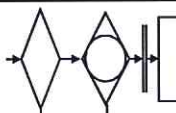
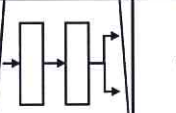
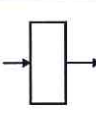




<i>ITW Automotive</i> Engineered Fasteners & Components	GENERIC FILE N° DG 001	Date : 26/09/16
MANUFACTURE AND CONTROL FLOWCHART PER OPERATION		Level : 17
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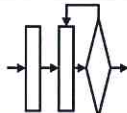

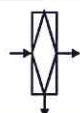
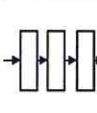
NON CONFORMITIES DISPOSITION





 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16 Level : 17	
PROTOTYPE		PRE-PROD.		PRODUCTION		CONTROL PLAN	
Checked, and approved by E. PALFRAY							



flowchart	component	operation reference	Nb / description of operation	process parameters or product specifications	parameters value / specifications	production or control mean	maintenance	lock	reference document	process/ product follow up. Data recording	type of surveillance per level			counter-measures to product or process defect	filling mode and duration
											1	2	3		
	Pellets	A	10 Administrative receiving	Conformity: - order - reference number - delivery note				Data, Processing lock XPPS	Commande PE 40	Recording XPPS	1x receiving			PE110	PG40
			20 Incoming inspection	Conformity : - certificate of compliance				Data, Processing lock XPPS	Certificate of compliance				1 x batch	PE110	PG40
			20 Raw material Storage			Cart Fork lift									
	Pellets	B	30 Supply-Lmix	Material prepared according to shop floor order		Central feeding			Shop floor order PE40	Recording XPPS	1x /shop floor order or more if needed				
			40 Drying	Material prepared according to shop floor order		Central feeding coupled with dryer			Shop floor order IP034 IP052						
	Pellets	C													

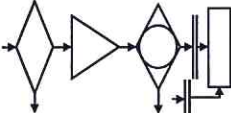

 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16 Level : 17	
PROTOTYPE		PRE-PROD.		PRODUCTION		CONTROL PLAN	
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											1	2	3			
	Pellets		50 Mold set up	Conformity according to production folder	Work routing	Crane Mold Press	DM017 PE80							PE60		
			50 Setting	Check settings against specifications	According to DM005	Press Mold	PE80		DM005					PE60		
			50 Batch Start	DS control for: - material - visual - dimensional - spec, functional - machine parameters	According to control range + annex DM017	According to specific product control plan	PE90	control plan + annex DM005	Qsys DM017	1 x D.S. 1 x D.S.			DQ115 PE120 PE60 IP059	PG40		
	Pellets		60 Molding Injection	Production Control: - According control plan - Injection machine setting automatic) - According production file critique	According to control range + annex DM017	Press Mold control plan	PE90 PE80		control plan + annex DM005	Qsys DM017 Injection machine housing. Automatic control	control plan + annex product audit Frequency according to PLA planning			DQ115 PE120 PE60 IP059	PG40	
			120 Packing	Quantity	Batch order	Weighing machine (tarage: start of production)	PE90	Batch order	XPPS + Labelling tare checked by J.A.	100%			PE120			
	Component		120 Labeling	labelling conformity	Batch order	Label			IP024	XPPS recording	100%			PE70	PG40	

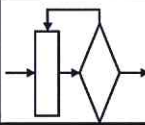
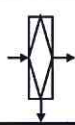
 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16	
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Checked, and approved by E. PALFRAY							
						Level : 17	
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flowchart	component	operation reference	Nb / description of operation	process parameters or product specifications	parameters value / specifications	production or control mean	maintenance	lock	reference document	process/ product follow up. Data recording	type of surveillance per level			counter-measures to product or process defect	filling mode and duration	
											1	2	3			
	Pellets	<div>L</div>	50 Mold set up	Conformity according to production folder	Work routing	Crane Mold Press	DM017 PE80							PE50		
			50 Setting	Check settings against specifications	According to DM005	Press Mold	PE80		DM005					PE50		
			50 Batch Start + Mistake Proofing	DS control for: - material - visual - dimensional - spec, functional - machine parameters	According to control range + annex DM017	According to specific product control plan	PE90	Mistake-Proofing	Control plan + annex DM005 Production Instruction	Qsys DM017	1 x D.S. 1 x D.S 1 x shift.			DQ115 PE120 PE50 IP059 DP091	PG40	
	Pellets		60 Molding Injection	Production Control: - According control plan - Injection machine setting automatic - According production file critique	According to control range + annex DM017	Press Mold control plan	PE90 PE80		control plan + annex DM005	Qsys DM017 Injection machine housing. Automatic control	control plan + annex Frequency according to PLA planning			DQ115 PE120 PE50 IP059	PG40	
			120 Packing	Quantity	Batch order	Weighing machine (range: start of production)	PE90		Batch order	XPPS + Labelling + tare checked	100%			PE120		
	Component		120 Labelling	labelling conformity	Batch order				IP024	XPPS recording	100%			PE70	PG40	

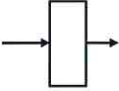
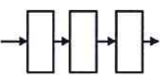
 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16	
PROTOTYPE		PRE-PROD.		PRODUCTION		CONTROL PLAN	
Checked, and approved by E. PALFRAY							
						Level : 17	
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flowchart	component	operation reference	Nb / description of operation	process parameters or product specifications	parameters value / specifications	production or control mean	maintenance	lock	reference document	process/ product follow up. Data recording	type of surveillance per level	counter-measures to product or process defect	filling mode and duration
	Components	F	70 Administrative receiving	Conformity: - Order - Reference - Delivery note				Data processing lock XPPS	Order	Recording XPPS	1 x receiving	PE110	PG40
			70 Receiving inspection	Conformity : - Visual				Recording XPPS (Management AQF)	PE40 (Management AQF)	Recording XPPS		PE110	PG40
	Components		80 Storage			Cart Fork lift truck						PE110	



 Engineered Fasteners & Components		GENERIC FILE N° DG 001		Date : 26/09/16	
R				Level : 17	
PROTOTYPE		PRE-PROD.		PRODUCTION	
CONTROL PLAN					
Checked, and approved by E. PALFRAY					


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											1	2	3			
	Components	G	90 Setting	Setting checked against specifications		Robot Assembly tool	PE80							PE50		
			90 Batch start	Control - Visual	According to control routing	Measure Instruments	PE90		Control routing		1 x D.S.			PE50 PE120 IP059	PE40	
			100 Assembly	Control - Visual - Dimensional	According to control routing	Robot Assembly tool Gauge	PE90		Control range - Specific instruction as per case		Control routing			PE50 PE120 IP059	PE40	
	Components		120 Packing	Quantity	According to work routing	Weighing machine	PE90		Work routing		100%			PE120		
			120 Labeling	Conformity of label	According to work routing	Label			IP024	Recording XPPS	100%				PE40	

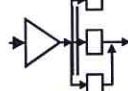

 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16 Level : 17	
PROTOTYPE		PRE-PROD.		PRODUCTION		CONTROL PLAN	
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 Components			110 Moisturizing	Time Température		Moisturizer Timer	Preventive maintenance sheet GMAO		Work routine		1 2 3		
 Components			120 Packing	Quantity	According to work routing	Weighing machine	PE80		Work routine		100%	PE120	
			120 Labelling	Conformity of label	According to work routing	Label			IP024	Recording XPPS	100%		PE40

 Engineered Fasteners & Components		GENERIC FILE N° DG 001				Date : 26/09/16 Level : 17	
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											1	2	3		
	Finished good		130 Storage			Transpalette Chariot élévateur	Vérification périodique								
	Finished good		150 Shipments routing Shipping	- Shipments routing - delivery note - Packing list derived from packing sheet	Packing sheet	Cart Fork lift truck Strapping machine	Recurring checks	Barre code reading device	PE60	Recording XPPS	1 x shipping				PG40

 Engineered Fasteners & Components		GENERIC FILE N° DG 001		Date : 26/09/16	
				Level : 17	
PROTOTYPE		PRE-PROD.		PRODUCTION	
		CONTROL PLAN		Page : 8/8	
Checked, and approved by E. PALFRAY					

flowchart	component	operation reference	Nb / description of operation	process parameters or product specifications	parameters value / specifications	production or control mean	maintenance	lock	reference document	process/ product follow up. Data recording	type of surveillance per level			counter-measures to product or process defect	filling mode and duration
											1	2	3		
	Pellets Components Finish goods rejected		Concession acceptance Sorting rework Return to supplier Scrap	Depending on refusal grounds		Measure Laboratory Specific tool	PE90		IP059 DP013	Recording XPPS	100%	1 x NC		PE 110 PE120	PG40

Gauge R&R

Gauge name	Digital caliper C84	Part No.	303123 clip 6.5x12.5
Specs	Dimension: 8 ± 0,2mm	Interval of tolerance	0,4 Max : 8,2 Min : 7,8

Dispersion measure (number of sigma)

5,15

Date: 30/11/17

Sample N°	Operator A				Operator B				Operator C				Moy p
	Trial 1	Trial 2	Trial 3	range	Trial 1	Trial 2	Trial 3	range	Trial 1	Trial 2	Trial 3	range	
1	8,01	7,99		0,02	8,02	8,01		0,01	8,01	8,01		0,00	8,01
2	8,00	8,01		0,01	7,99	7,99		0,00	8,00	8,00		0,00	8,00
3	8,01	8,01		0,00	8,02	8,02		0,00	8,01	8,02		0,01	8,02
4	7,99	7,99		0,00	7,98	7,98		0,00	7,98	7,97		0,01	7,98
5	7,99	8,00		0,01	7,99	7,98		0,01	8,00	7,99		0,01	7,99
6	8,00	8,00		0,00	8,01	8,01		0,00	7,99	8,00		0,01	8,00
7	7,98	7,98		0,00	7,96	7,98		0,02	7,96	7,96		0,00	7,97
8	7,96	7,96		0,00	7,96	7,96		0,00	7,97	7,97		0,00	7,96
9	8,01	8,01		0,00	8,02	8,00		0,02	8,01	8,01		0,00	8,01
10	8,01	8,01		0,00	7,98	7,99		0,01	8,01	8,00		0,01	8,00
Avg \bar{x}	8,00	Avg R	0,00	Avg \bar{x}	7,99	Avg R	0,01	Avg \bar{x}	7,99	Avg R	0,00	R _{PV}	0,05

\bar{R} : 0,005

Average of average \bar{x} : 7,994

Maximum of \bar{x} : 8,00

Minimum of \bar{x} : 7,99

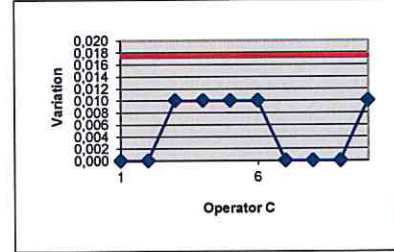
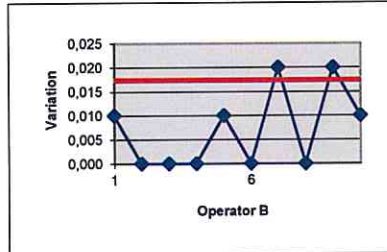
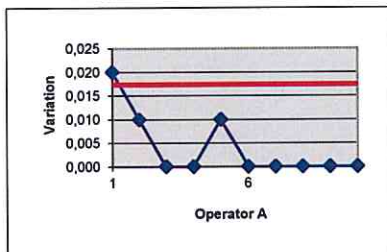
Difference \bar{x} : 0,00

higher limit of control (LSCr) :

0,02

coefficient value D4 :

3,27

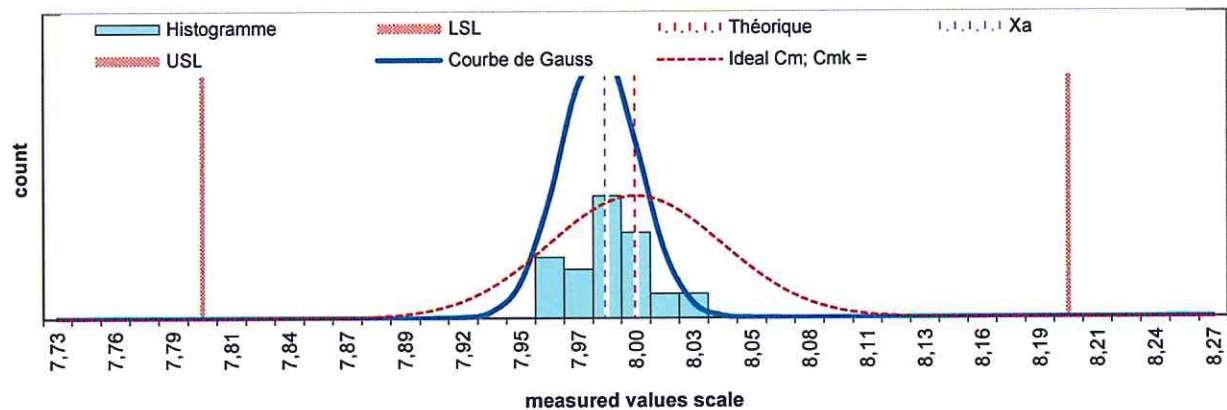


Measures Analysis		Tolerance %
Repetability EV (Equipment Variation) $\sigma_{EV} = \frac{\bar{R}}{d_2}$ <p>For 2 trial d2 = 1,13</p> <p>$\sigma_{EV} = 0,00$</p> <p>EV = 5,15 x 0,00 EV = 0,02</p>		<p>% EV = 100[(EV)/(Tolerance)]</p> <p>% EV = 6,1%</p>
Reproductibility AV (Appraiser Variation) $\sigma_{MoyOp} = \frac{R_x}{d_2} \sigma_{AV} = \sqrt{\sigma_{MO}^2 - \frac{\sigma_{EV}^2}{n.r}}$ <p>For 3 Operators d2* = 1,91</p> <p>Number of parts / trial : 10</p> <p>Number of trial r : 2</p> <p>$\sigma_{AV} = 0,00$</p> <p>AV = 5,15 x 0,00 AV = 0,01</p>		<p>Tolerance %</p> <p>% AV = 100[(AV)/(Tolérance)]</p> <p>% AV = 1,9%</p>
Répetabilité et reproductibility R & R $\sigma_{R\&R} = \sqrt{(\sigma_{EV})^2 + (\sigma_{AV})^2}$ <p>R&R = 5,15 x 0,00 R&R = 0,03</p>		<p>Tolerance %</p> <p>% R&R = 100[(R&R)/(Tolerance)]</p> <p>% R&R = 6,4%</p> <p>Gauge OK</p>

ITW Automotive Engineered Fasteners & Components		Check of process ability (Variable mark)		Record No.: PPAP
Product : clip 6.5x12.5		Parameter: 8 ± 0,2		Examiner: Marc ROSTOCK
Part Nb : 303123		High tolerance: (USL): 8,2 Bottom toler.: (LSL): 7,8		Sign: RM
Note:		Measuring instrument: Digital slide calliper C84		Date: 30/11/2017
Minimal cp; cpk : 1,67		Checking process: by measurement		

Measured values:

1	7,99	8,02	8,02	7,98	7,98	8,00	7,96	7,98	7,98	7,95	arithmetic mean
2	7,99	7,98	7,98	7,98	8,01	7,97	8,00	8,01	7,99	7,97	$\bar{x}_a = 7,9833$
3	7,96	7,98	7,98	8,00	7,96	7,97	7,98	8,00	7,96	7,97	standard deviation
4											$s = 0,0181$
5											


Evaluation:

$$C_p = \frac{USL - LSL}{6s} \rightarrow C_p = 3,69$$

$$C_{pk_{USL}} = \frac{USL - \bar{x}_a}{3s} \rightarrow 4,00$$

$$C_{pk_{LSL}} = \frac{\bar{x}_a - LSL}{3s} \rightarrow 3,38$$

$$C_{pk} = 3,38$$

Evaluation:

	YES	NO
Statistic, stable?	X	
Answer datas to Gauss separation?	X	
Is machine capable?	X	

Note.: Machine is capable when process is statistic stable (see page 2) If datas answer to Gauss separation of probability

Corrective arrangement:

Certificate Of Analysis

Date of Issue: 28/03/2018

So.F.TER.



Item Code: A1270046C
NYLFOR A1 E6/2D H2 NERO Y1

Customer: ITW EF & C. FRANCE SAS

Batch: PA31119Z7

Inspection N°: 18SP04483

Order N°: OCTD - 50

Cust. Ord. N°: 12856700107

DDT N°: XBD - 103

Delivered Qty: KG 24020

Inspection Date: 09/03/2018

Order Date: 13/02/2018

Cust. Ord. Date: 08/01/2018

DDT Date: 28/03/2018

Physical properties	Values	Range	U.M.	Method
Density	1.082	1.08 - 1.12	g/cm ³	ISO 1183
Moisture Content	0.13	max 0.2	%	INTERNAL
Viscosity, raw material, (Sulphuric acid)	2.39	2.28 - 2.49	-	ISO 307
Mechanical properties	Values	Range	U.M.	Method
Tensile Modulus	2109	min 2100	MPa	ISO 527
Charpy impact strength, notched (23 °C)	18.9	min 16	kJ/m ²	ISO 179 - 1eA
Flammability	Values	Range	U.M.	Method
Flame Rating (1,6 mm)	HB	HB	Class	UL94
Flame Rating (3,2 mm)	HB	HB	Class	UL94

Notes:

The values reported in this Certificate of Analysis are the result of tests performed at SO.F.TER. laboratories on plates obtained by injection molding. Tests are carried out at 23°C unless otherwise specified.

This Certificate of Analysis complies with the norm UNI EN 10204:2005 2.3 and 3.1.

We hereby certify that the above mentioned product complies with the specifications.

This certificate is computer generated from results validated by the Quality Control Laboratory and is therefore not signed.