



Thermia

Supplier Manual

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1. Introduction

Thermia places great emphasis on maintaining high product quality and reliability to ensure sustainable development.

Our suppliers play an important role in our quality assurance work. We firmly believe that it is in the mutual interest of both Thermia and our suppliers to meet the present and future requirements of customer expectations and product durability.

This Supplier Manual describes Thermia's requirements in terms of supplier qualification, quality assurance and legal compliance, purchase processes, delivery and handling of supplier claims. These conditions need to be met in advance of receiving approval for a new or changed product or manufacturing process.

2. Supplier Qualification & Onboarding



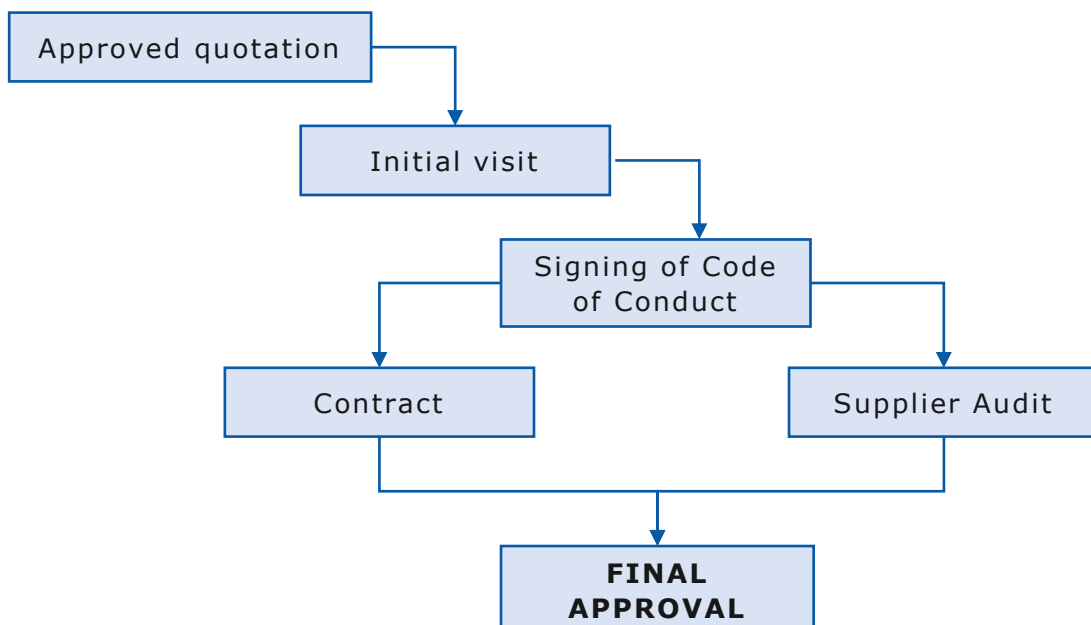
Thermia follows a standardized process for supplier onboarding, including initial assessment, approval, registration, and potential audits.

CODE OF CONDUCT (CoC)

The Code of Conduct is a behavioral declaration that sets expectations for suppliers based on UN Global Compact principles and ILO conventions. It ensures Thermia's commitment to sustainable development.

SUPPLIER AUDIT

A supplier audit is a thorough assessment of a potential supplier's processes, practices, and performance. Thermia conducts on-site visits using a template inspired by VDA (Verband der Automobilindustrie) 6.3. Corrective actions may be needed for approval. Ratings and improvement suggestions are provided. Audits may also occur during collaboration, especially for significant quality issues.



3. Part Approval (PA) Process

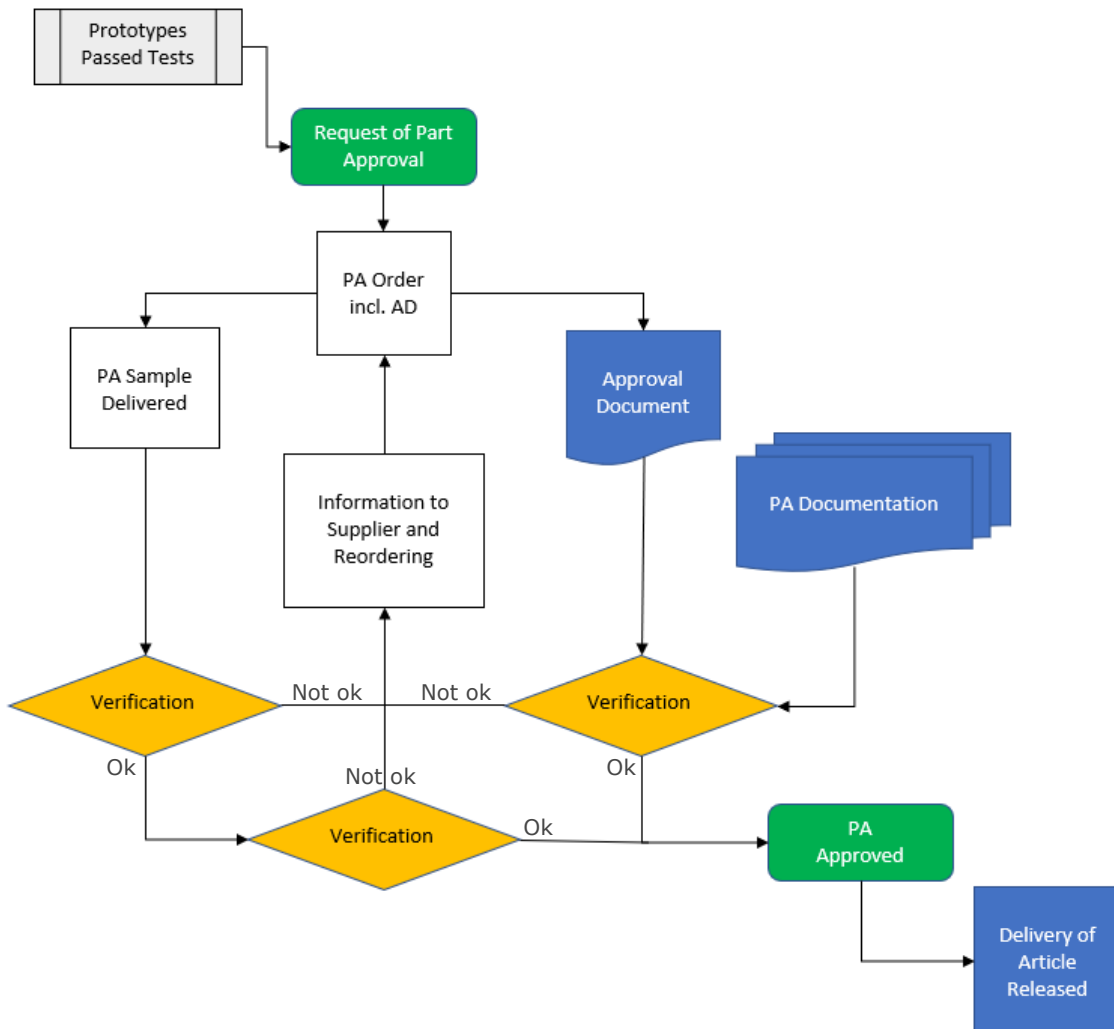


REQUIREMENT

Thermia requires all suppliers to ensure the quality of new or exchanged parts, as well as production processes, before delivery of parts intended for Thermia's serial production.

METHOD

Thermia expects all suppliers to follow Thermia's Part Approval (PA) process, which is a simplified version of the established PPAP (Production Part Approval Process) within AIAG 16946.



3.1. Sample Orders



PART APPROVAL ORDER

Thermia will send a purchase order (PA) with identification "PA ORDER" and specification noted or attached.

If the PA samples are ordered together with 1st order, this will be specified within the purchase order.

PA SAMPLE

The PA samples for approval will be in accordance with agreed drawings and specifications and manufactured using the specified parts in series production tools and process.

PA DOCUMENTATION

Necessary documentation for PA is decided based on the component type, as specified in a guidance matrix.

PROTOTYPES

Prototype parts may be ordered for tests before drawings, specifications or other design parameters are finalized.

APPROVAL DOCUMENT (AD)

Thermia will send the approval document together with the PA purchase order.

Please see the next page for more information about the AD.

DELIVERY

Thermia expects all suppliers to deliver PA samples and submit the required documentation without delay.

3.2 Approval Document



GENERAL DATA

Thermia completes general data about the specific part and supplier.

Approval Document		Date: 2023-05-12																															
		Rev:09																															
		Creator:																															
		Annica Westerberg																															
Part Name																																	
Thermia Part No		Revision																															
Supplier Name		Supplier Part No																															
Purchaser		Supplier ID																															
Quality Engineer		Date																															
Reason for PA :	Choose an alternative	CR/Project ID																															
<table border="1"> <thead> <tr> <th colspan="2">Basic</th> <th>PA Documentation</th> <th colspan="2">Additional</th> </tr> </thead> <tbody> <tr> <td>Norm / Drawing / Tech.spec</td> <td></td> <td rowspan="6">X= Demands to this AD</td> <td colspan="2">Production Process flow chart</td> </tr> <tr> <td>Customs Declaration</td> <td>X</td> <td colspan="2">Risk analyzis /FMEA</td> </tr> <tr> <td>Customs Material List</td> <td>X</td> <td colspan="2">Manufacturing tests/Control Plan</td> </tr> <tr> <td>Material Declaration</td> <td>X</td> <td colspan="2">Dimensional Results</td> </tr> <tr> <td>Master Sample/Initial sample</td> <td></td> <td colspan="2">CE-declaration / Manufacture 's Declaration</td> </tr> <tr> <td>Packaging specification</td> <td></td> <td colspan="2">Material Recycling Report</td> </tr> </tbody> </table>				Basic		PA Documentation	Additional		Norm / Drawing / Tech.spec		X= Demands to this AD	Production Process flow chart		Customs Declaration	X	Risk analyzis /FMEA		Customs Material List	X	Manufacturing tests/Control Plan		Material Declaration	X	Dimensional Results		Master Sample/Initial sample		CE-declaration / Manufacture 's Declaration		Packaging specification		Material Recycling Report	
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Material Declaration	X		Dimensional Results																														
Master Sample/Initial sample			CE-declaration / Manufacture 's Declaration																														
Packaging specification			Material Recycling Report																														
Declaration I hereby affirm that the samples represented by this certification are representative of our parts, have been made to the applicable customer drawings and specifications and are made from the specified materials on serial production tooling in the serial production process. I also understand and agree to that any changes will require a change process including a new Approval Documentation																																	
Supplier Authorized Signature																																	
Digital Signature		Title	Date																														
Print Name:																																	
Thermia Approval Signature																																	
Digital Signature		Title	Date																														
		Supplier Quality Engineer																															
Print Name:																																	

PA DOCUMENTATION

Lines marked with an "x" must be included with the signed approval document (AD).

Templates are available in the AD excel file.

Detailed information in following pages explains the contents of each documentation form.

DECLARATION

Thermia accepts both digital and written signatures on the AD document.

3.2.1. Long Term Supplier's Declaration

GENERAL REQUIREMENTS

Since you supply parts for our products, we require your information regarding the country of origin and customer tariff number for the goods we export.

If you are located within the European Union, we request a Supplier's Declaration to confirm that the products originate from the EU. This declaration can cover a specific consignment or multiple consignments over a maximum period of 24 months.

If the parts you provide do not originate from the EU, Thermia still require you to fill out the material list form.

Request for a long term supplier's declaration for goods with preferential origin status

Dear supplier,

By custom regulations we are required to collect proof of origin for all goods that you deliver to us. We therefore request you to provide a suppliers declaration.

Enclosed there is a long term suppliers declaration and a list of the materials we purchase from you.

In the declaration sheet:

State name of the person submitting the form, and the current date.

In the material list:

Please add the following information in the material list

1 Preferential origin, Yes or No

Please fill in the following data only if your data is different from ours

2 Country of origin

3 Customs tariff number

4 Your material number

The suppliers declaration is only valid with the enclosed forms.

If you require further information please contact your local trade and industry office or local customs.

3.2.2. Declaration Sheet

GENERAL REQUIREMENTS

The document to be signed is shown below.

If you have questions or concerns about the Long-Term Supplier's Declaration, please contact procurement@thermia.com.

Long-term supplier's declaration for products having preferential origin status

The undersigned declare that the goods described below:

..... product description as in material list (1)

which are regularly supplied to *Thermia AB*, originate in country as in material list (2)

and satisfy the rules of origin governing preferential trade with (3)

☐ EUR-MED
(the EU, the EFTA states, The Republic of Moldova & the Faroe Islands)

☐ United Kingdom

I declare that (4):

☐ Cumulation applied with (name of country/countries)

☐ No cumulation applied

This declaration is valid for all shipments of these products dispatched from 20XX-XX-XX to 20XX-XX-XX

I undertake to inform *Thermia AB* immediately if this declaration is no longer valid.

I undertake to make available to the customs authorities any further supporting documents they require.

.....
Place and date of issue

.....
Name and position name and address of company

.....
Signature (filled out in Excel is sufficient)

1) Description & commercial designation as used on the invoices, e.g. model No.
2) The European union, country, group or countries or territory, from which the goods originate.
3) Country, group or countries or territory concerned.
4) To be completed, where necessary, only for goods having preferential origin status in the context of preferential trade relations with one of the countries, with which pan-Euro-Mediterranean cumulation of origin is applicable.

Cumulation in international trade refers to the practice of combining materials or processing from multiple countries to determine the origin of a product, ensuring compliance with rules of origin and potential eligibility for preferential treatment.

Preferential trade refers to special trade agreements that provide advantages such as reduced tariffs or trade barriers between participating countries or regions.

3.3. PA Documentation



GENERAL

PA documentation is used to confirm the approval of the part/product, including the production process.

Documentation required is based on part/product type.

GUIDANCE MATRIX

The guidance matrix summarizes the documentation required for each type of part/product.

“X” is always mandatory

“Optional” is decided by Thermia SQE

“a” is mandatory if the part/product has a specified requirement.

“n/a” is not applicable

Grupperingskriterier			Basdokument							Tilläggsdokument				
Gruppering	Förklaring	exempel på komponenter	AD Approval document	produkt-information	Material-deklaration	Förpacknings-information	Control plan / slutkontroll	PA prov specifikt	PA prov ur första leveransen	Processkarta produktionsflödet	Risk-bedomning produktionsprocessen	Mät-protokoll	CE-försäkran	Material-återvinningsanalys
Thermias design	köp av komponenter där leverantören ansvarar för tillverkningen men Thermia ha ansvar för konstruktionsunderlaget	Display box, plåtar, kablar, BM-kort etc	X	n/a	X	X	X	X	n/a	X	X	X	a	n/a
Flytt av produktion	leverantören flyttar produktionen till annan egen produktionsenhet, detta gäller när det produceras på vårt konstruktionsunderlag	de som inte är hyllvaror eller kemikalier	X	n/a	X	optional	X	X	n/a	X	X	a	a	n/a
Thermia-tillägg	Komponenter som är katalogvaror, där den tekniska specien refererar till ett produktdatablad/ norm / standard / MEN med tillägg/ ändringspecifikt för Thermia	Kompressor, kopplingar, cirkumpump, Inverter, (PCB)	X	a	X	a	X	X	n/a	X	optional	a	a	optional
Trading	Trading / köp av färdigprodukt	ITec, SVR, WT-X, Tillbehör	a	X	X	X	X	X	n/a	X	optional	a	a	X
Kemisk	Kemisk produkt / Kemiskt ämne eller blandning	Glykol, köldmedier	n/a	X	X	n/a	a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ren Hyllvara	standardartiklar, hyllvaror INGEN handpåläggning/specifikt för Thermia	skruvar, slangklämpor, buntband, påsar (kompressor, skruvar)	optional	X	X	n/a	a	optional	X	n/a	n/a	n/a	optional	optional

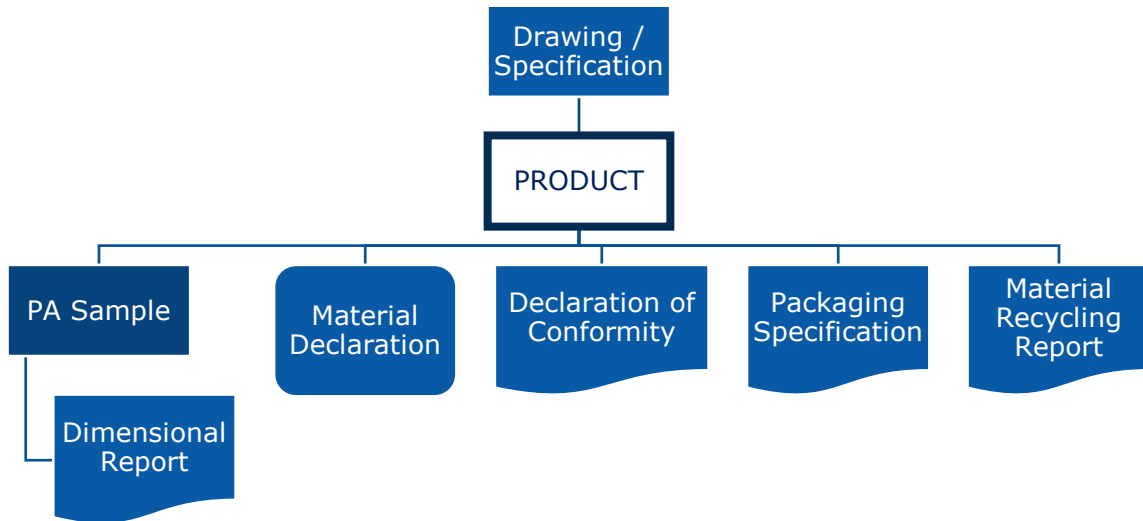
DOCUMENTATION

The PA documentation is in two parts: “basic” and “additional” information.

The PA documentation covers both product and production quality assurance.

Templates are available in the AD excel file. It is acceptable to use supplier in-house templates as long as they provide all the requested information.

3.4. Product Quality Assurance



PRODUCT TECHNICAL SPEC/DRAWING/DATA

For Thermia-designed parts, drawings and technical specifications are included together with the PA order.

For supplier-designed parts, all available product specifications must be forwarded to Thermia.

For supplier-designed parts with Thermia customizations (i.e. controller settings, part numbers, etc.), both parties will provide the necessary specifications.

DIMENSIONAL REPORT

When applicable, PA samples must be measured and the protocol sent to Thermia.

All results must be traceable to the specific samples and should include appropriate references to the equipment and procedures used for the measurements taken.

Critical specific characteristics must be highlighted on the drawings. Their inclusion in the protocol is mandatory.

DECLARATION OF CONFORMITY

When applicable, the supplier is responsible for assuring that the parts fulfill the CE requirements. A declaration of conformity must be submitted to Thermia if requested.

CE requirements applies to; energy-related, electrical and electronic appliances and similar (products covered by the Machinery Directive).

MATERIAL RECYCLING REPORT

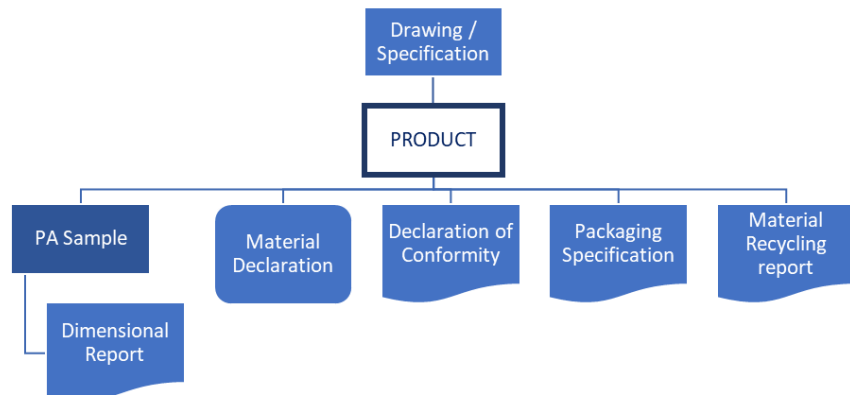
A material recycling report related to the part/product must be available and submitted to Thermia if required.

The report is preferably made according to EN45555:2020.

If other analyze method is used, please describe this in the report

MATERIAL DECLARATION

A material declaration is mandatory for all parts/products. See following pages.



3.4.1. Material Declaration



MATERIAL DECLARATION

A material declaration is mandatory for all parts.

The declaration form is enclosed as an excel file and must be fully completed.

Parts containing substances that fall under Article 33 of REACH (see right) need to be declared as in Example 1. Products must also be registered in SCIP database by the supplier.

Products not containing substances affected by Article 33 of REACH must be declared as in Example 2.

DUTY TO COMMUNICATE

According to Article 33 of REACH, the manufacturer of a part is required to provide information about any Substances of Very High Concern (SVHC) on the candidate list when the concentration exceeds 0.1% weight by weight (w/w).

LEGAL REGULATIONS: FURTHER INFO

For more detailed information about SCIP, Reach, RoHS, WEEE, Biocidal and POPs regulations, see follow pages.

Component / part	Chemical substance / Material	CAS No.	Total Weight[g]	Weight %	REACH	SCIP	SCIP number	ROHS	RoHS exemption	WEEE	Biocidal Regulation	POPs Regulation
Example 1: Brass nut	Lead	7439-92-1	1500	>10 vikiprocent och >10,0 vikiprocent	Yes, included in the Candidate List	Yes, registered in ECHA SCIP-database	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX	Product meet the requirements by application of described exemption(s)	6(c)	Yes, an Electrical or electronic product	Not applicable for this part	Not applicable for this part
Example 2: Hose				No, it contains no SVHC substances	Yes, but not included in any of the lists	No, it contains no SVHC substances		Product meets the requirements without any exemptions		Not applicable for this part	Not applicable for this part	Not applicable for this part

3.4.2. Legal Regulations



WFD (WASTE FRAMEWORK DIRECTIVE)

The Waste Framework Directive is a European Union directive concerned with "measures to protect the environment and human health by preventing or reducing adverse impacts".

It sets out measures and requirements for the prevention, re-use and recovery of packaging wastes in Member States.

Member States must ensure that packaging placed on the market complies with the underlying requirements. The directive implies the "producer responsibility" principle.

The Waste Framework Directive can be viewed here:

<https://eurlex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32008L0098&qid=1652206816484>



REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)

REACH (2011/65/EU) is a regulation of the European Union that governs the use of chemical substances and has an impact on most companies across the EU.

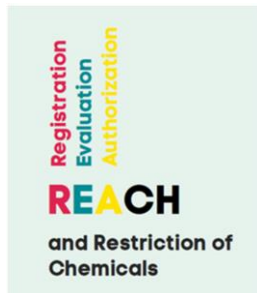
Particularly hazardous substances are called SVHC (Substances of Very High Concern).

More than 200 substances are listed in the candidate list. Particularly dangerous substances requiring permission for use are listed in Appendix XIV of REACH. The rules apply throughout the EU.

Chemicals that pose unacceptable risks to humans or the environment are listed in Appendix XVII in REACH.

The REACH regulation can be viewed here:

<https://eurlex.europa.eu/legal-content/en/TXT/HTML/?uri=CELEX:02006R1907-20210215>



SCIP



SCIP (Substances of concern in Products)

Every manufacturer, importer or distributor of a product placed on the market in the EU / EEA and containing more than 0.1% by weight of a particularly dangerous substance (SVHC) included in the candidate list in REACH, must provide information to the SCIP database at ECHA.

The regulation has applied since 1 January 2021 and is based on the Waste Frame directive for reducing waste containing hazardous chemicals and promoting the use of safer alternatives. The purpose is to support waste operators in ensuring that substances of concern are not used in recycled materials

The SCIP directive can be viewed here:

<https://eurlex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32018L0851&qid=1652207714754>

WEEE (Waste of Electrical and Electronic Equipment)

Manufacturers and distributors are required to:

- Register with the responsible national authorities in all countries distributing or selling equipment.
- Regularly submit reports of the amount of electrical and electronic equipment sold.
- Organize and finance the collection, treatment and recycling of the products they produce.
- Distributors must offer their customers the opportunity to return electrical and electronic waste free of charge.
- Products must be visibly marked crossed-out wheeled bin label.
- All manufacturers must comply with the RoHS Directive.

The WEEE directive can be viewed here:

<https://eurlex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32012L0019&qid=1652207360012>



ROHS



The RoHS (Restriction of Hazardous Substances) Directive (2011/65/EU) aims to reduce risks to human health and the environment by replacing and limiting hazardous chemical substances in electrical and electronic equipment.

The substances regulated by the RoHS directive are mercury, cadmium, lead, hexavalent chrome, flame retardants PBB and PBDE and plasticizers DEHP, BBP, DBP and DIBP.

The RoHS directive can be viewed here:

<https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1584116022829&uri=CELEX:02011L0065-20200301>

BPR



The BPR (Biocidal Products Regulation) governs the supply and use of biocides on the market to ensure a high level of protection for both human and animal health, and the environment. Biocides are chemical or biological pesticides used to control and eliminate harmful organisms.

The BPR can be viewed here:

<https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02012R0528-20210329>

POPS



The POPs (Persistent Organic Pollutants) Regulation prohibits or restricts the use of persistent organic pollutants in both chemical products and goods. POPs have particularly serious health and environmental properties and can be found in, for example, flame retardants, high-flouring substances (PFASs) and short-chain chlorine paraffins.

The POP regulation can be viewed here:

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019R1021&qid=1652206184230>

3.4.3. Dimensional Report

GENERAL REQUIREMENTS

The report must provide a record of the dimensional data taken from PA samples.

It is acceptable to use your own supplier template. An example is included in the excel file "Approval Document".

Part name										
Thermia Part Number						Revision				
Performed by						Date				
Measuring point	Nom. value	Tolerance limit	Result Part 1	Result Part 2	Result Part 3	Result Part 4	Result Part 5	Result Part 6	OK	NOT OK
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

DESCRIPTION

- Critical measures should be noted on drawing/s. If there is any doubt about which measures need to be included, please contact Thermia SQE.
- Measuring points must be marked on the drawing/s.
- Measurements must be noted for each part.
- Mark with "X" whether OK or NOT OK in relation to tolerance limits.

All suppliers must be able to provide a report from a recycling audit of the part/product.

Audit and report should ideally be carried out according to the EN 45555:2020 standard.

Product:		
Completion date of the recycling analysis:		
Name of responsible for the report		

	Weight	% of total	Comments
Material recycling			
Energy recovering			
Landfill			
Hazardous waste			
	0		

[illegible]

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3.5. Production Quality Assurance

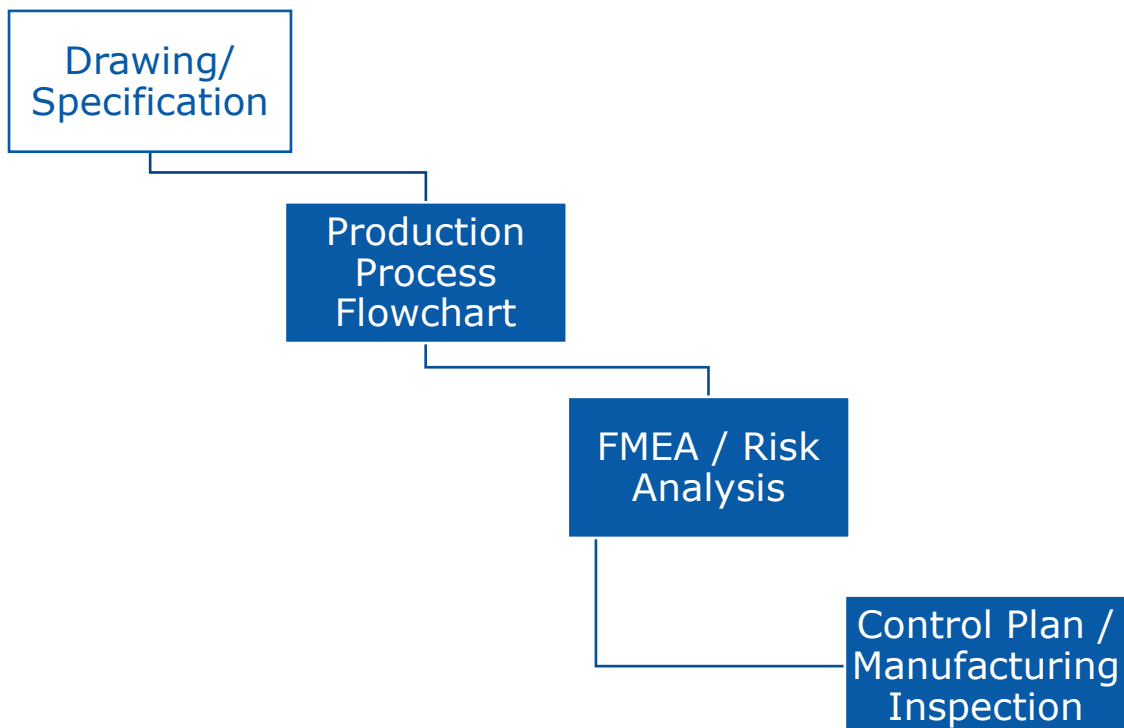


GENERAL REQUIREMENTS

All suppliers must be able to provide documentation to verify the safety and quality of the production process.

Technical specifications and/or drawing provide the basis for manufacturing.

1. A comprehensive flowchart should outline the part's production process.
2. FMEA or risk analysis is performed to identify, highlight and evaluate potential risks that could hinder meeting the requirements.
3. Risks must then be minimized to avoid delivering defective parts. These preventive actions should be described in a control plan, manufacturing inspection chart or similar



3.5.1. Process Flow Chart

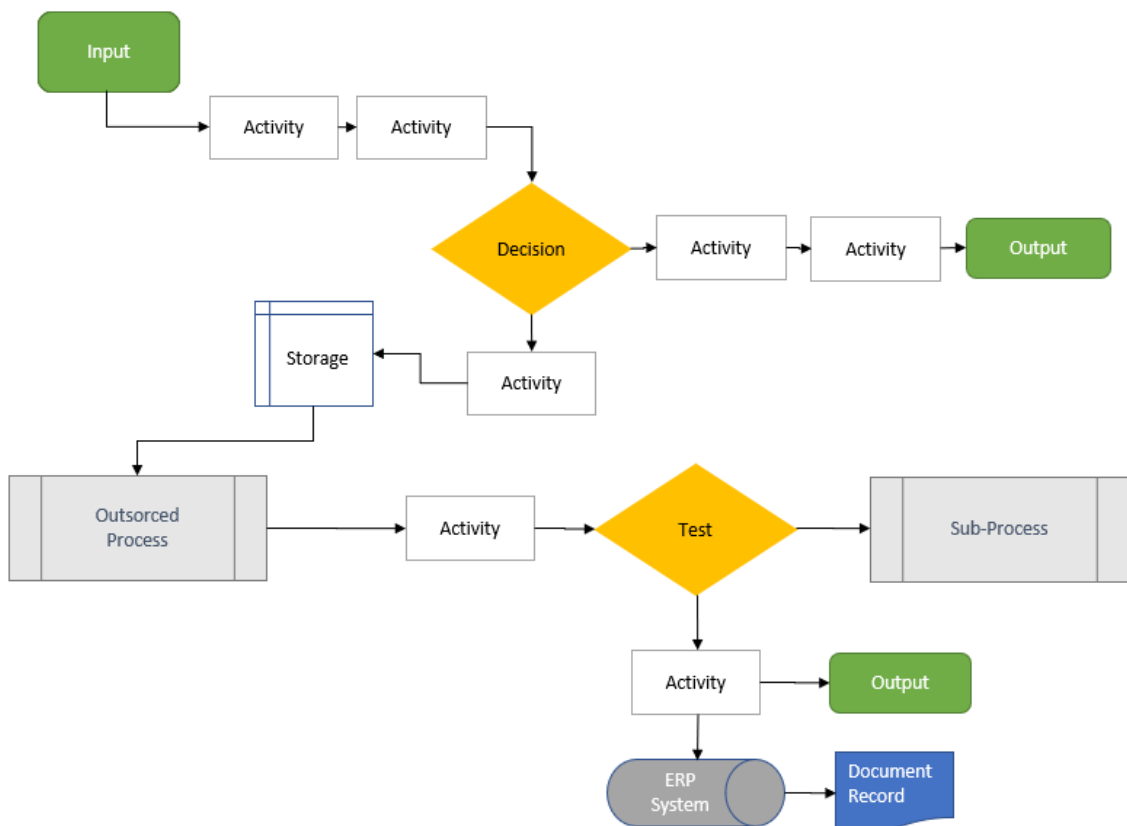


GENERAL REQUIREMENTS

All suppliers must maintain a production process flowchart that clearly describes the production process steps and sequences, from material reception through production to packaging and shipping.

A template is available in the excel file. Other templates are on the condition that all required information still is provided.

Process steps must also include operations performed by third parties (such as sub-suppliers). These steps need to be identified within the diagram and are subject to approval.



3.5.3. Control Plan

GENERAL REQUIREMENTS

The control plan describes how the production process is controlled in detailed implemented activities to ensure conformity with approved drawings and specifications, taking into account identified risks.

Manufacturing inspections may be described in the production process flowchart.

DESCRIPTION

List all operational risks identified throughout the production process, together with the assessment result > 100 for RPN.

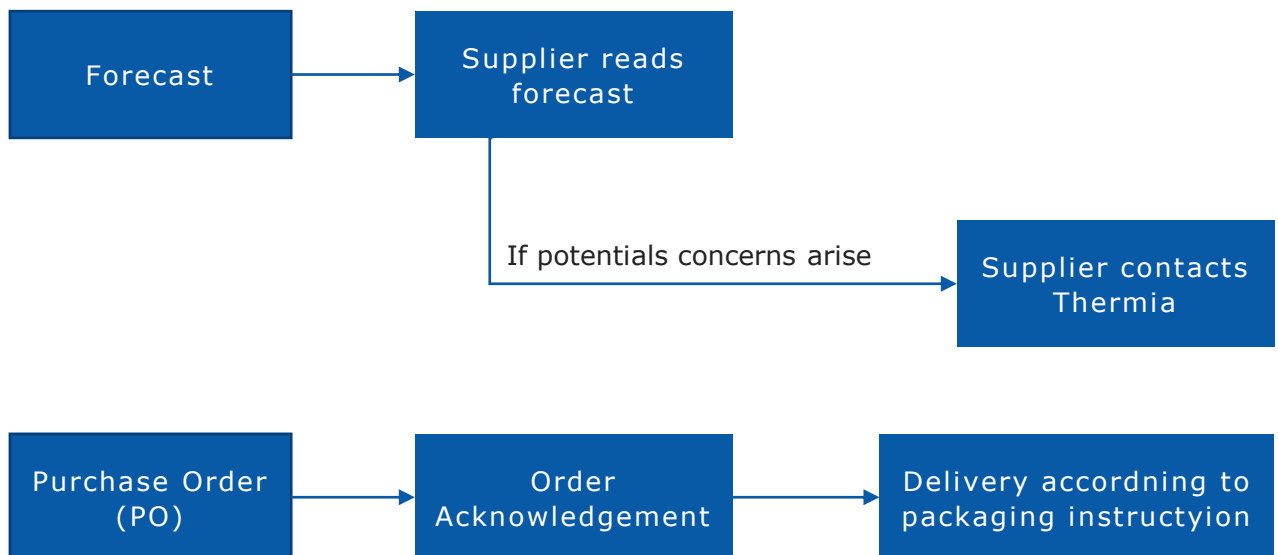
Complete the chart in full. Particularly important are measuring frequency and the number of samples.

Include an ID in the reaction plan, enabling operators to easily identify and follow appropriate measures in case any parameters exceed the defined limits.

Control Plan Number			Key Contact/Phone				Date (Orig.)		Date (Rev.)			
Part Number/Latest Change Level			Core Team				Customer Engineering Appro					
Part Name/Description			Supplier/Plant Approval/Date				Customer Quality Approval/D					
Supplier/Plant		Supplier Code		Other Approval/Date (If Req'd				Other Approval/Date (If Req'd				
PART/ PROCESS NUMBER	PROCESS NAME OPERATION DESCRIPTION	MACHINE, DEVICE, JIG,TOOLS, FOR MFG.	CHARACTERISTICS			SPECIAL CHAR. CLASS	METHODS					REACTION PLAN
			NO.	PRODUCT	PROCESS		PRODUCT/PROCESS SPECIFICATION/ TOLERANCE	EVALUATION/ MEASUREMENT TECHNIQUE	SAMPLE		CONTROL METHOD	
								SIZE	FREQ.			

4. Purchasing

This chapter provides a comprehensive overview of how purchasing at Thermia works, highlighting the four essential components: 'Forecasts' as predictions of future orders, 'Purchase Orders' as official buying requests, 'Order Acknowledgements' as seller confirmations of these orders and 'Delivery Specification', outlining the conditions and terms of product delivery.



4.1. Forecast

Thermia regularly sends non-binding demand forecasts to suppliers, which are automatically updated. Already ordered volumes (on PO) are not shown in the forecast. The forecasts together with POs provide a complete view of Thermia's demand.

The forecasts are automatically emailed as Excel files from THERMIA BATCH NoReply@thermia.com. The forecast is sent in the beginning of each month and the supplier itself is responsible for internal distribution within the supplier.

The forecast period usually extends beyond one year and is divided into weekly intervals, with the option to adjust the breakdown and frequency upon request.

Example, forecast:

	Vendor:	xxxxxx			
	Vendor name:	Supplier X			
	Vendor contact person:				
	Forecast number:				
	Forecast date:	'20211104			
	Forecast start:	'20211101			
	Forecast end:	'20401224			
	Period type:	Weekly			
	Thermia contact person:	Ms. Jane Doe (operative purchaser)			
Purchasing Group	Material Number	Material Text	Vendor Material no.	Quantity	Forecasted arrival d
HP6	086Lxxxx	Article A	830-1020	132	2022.01
HP6	086Lxxxx	Article A	830-1020	120	2022.02
HP6	086Lxxxx	Article A	830-1020	120	2022.02

4.2. Purchase Order (PO)



GENERAL REQUIREMENTS

Below are the essential components of a purchase order. Please note the boxes for accurate interpretation, as a purchase order is a crucial document that establishes the terms of Thermias's request to purchase goods or services from a supplier.

Be aware that a purchase order (PO) may consist of multiple pages.

Registration No. XXX
Vat No.: XXX

Thermia AB

Supplier's address
XXX

PURCHASE ORDER

PO Number/PO Date
Jane Doe / +46XX XXX XX XX

Contact/Telephone
XXXXXXXX / 20XX.XX.XX

Email address
POconfirmation@thermia.com

Your ref.
John Doe

Shipment to:
Thermia AB
XXXX

Tel: +46 XXXXXXXX

Invoice to:
E-Mail: scanning@thermia.com
Thermia AB
Box 950
Snickaregatan 1
671 29 Arvika

Terms of delivery: XXX Page: 1 of XXX
Terms of payment: XX Days

Item	Material	Quantity	Unit.	Price per Unit	SEK
Material specification					
From	XXX				
01	XXXXX XXXX	XXX XX			
	<u>Delivery date:</u>	20XX.XX.XX			
02	XXXXX XXXX	XXX XX			
	<u>Delivery date:</u>	20XX.XX.XX			
Total net value excl. tax SEK					XXX

Thermia's delivery contact information.

Please note that this address may vary across different purchase orders since Thermia has multiple delivery locations.

The number of the order and the date of issuance.

Email address for order confirmation.

The supplier shall confirm the delivery to Danfoss within two (2) working days after receiving the order.

Thermia's invoice contact information.

Send the invoice attached as PDF in the email.

Only one invoice per file, but there can be multiple files in one email.

The delivery date is the date we expect the delivery to arrive at the specified delivery address mentioned in the "Shipment to" field.

Independently of Incoterms

4.3. Order Acknowledgement



GENERAL REQUIREMENTS

The order confirmation should be sent via email to:
POconfirmation@thermia.com

The order confirmation need Thermia's order number clearly indicated in the subject line.

The supplier is required to confirm the delivery to Thermia within **two** (2) working days upon receiving the order.

In case Thermia does not receive the confirmation within the specified timeframe, a reminder will be sent, expecting a prompt reply.

When providing the order confirmation, it is crucial to include the following information:

- Thermia's purchase order (PO) number
- Supplier's sales order number
- Thermia's material number
- Supplier's article number/description
- All items/order lines listed on the PO
- Confirmed quantity
- Confirmed delivery date for arrival at Thermia independently of Incoterm
- Price details

5. Delivery



This page outlines the specific packaging specifications required for the safe and secure delivery of Thermia's products.

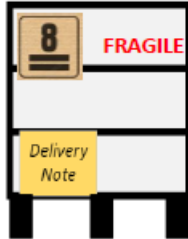
Packaging specification for Serial Delivery of Goods to Thermia AB, Sweden

SPECIFIC REQUIREMENTS						
Creator, location, date						
Supplier name						
Thermia article number						
Thermia Material Description						
Pallet Packaging	Pallet type	No of collars	Max Weight	Max height	Length	Width
Inside Packaging	Box type	No of packages	Units per package	Length	Width	Height
Packaging Sustainability						
One-time packaging ☐ Returnable ☐ Recyclable ☐ Return Procedure agreed ☐						
Other specific requirements:						
CONFIRMATION FROM SUPPLIER						
Date		Signature			Name	

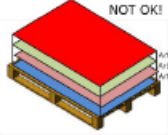
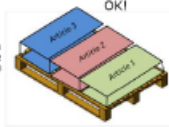
5.1. General Requirements

PACKAGING SPECIFICATION

The general requirements stated apply to all deliveries unless otherwise specified in the specific requirements outlined on the previous page. It is important to carefully review and adhere to the specific requirements to ensure compliance with our delivery standards.

DOCUMENTS	
Delivery note must be present with all incoming goods. Shall at least state: * Thermia PO number * Thermia article/part number * Quantity of each item Mark with "Heavy" or "Fragile" if so is the case. Mark with max amount of stackable items/pallets, if stackable	 Place delivery note in the lower left corner

PALLET	
Standard size should be EUR-pallet, 80 x 120 cm. The pallet must be complete & clean.	

PACKAGING	
Pack one article per pallet <u>If agreed upon</u>, smaller items can be mixed on one pallet If mixed, mark each box with Thermia article number Packaging must be steady and consistent, not vary from time to time! Must be able to remove collars without goods falling apart. Must be able to load by truck, without rearranging. Constituents of packaging must separate easily. E.g. cardboard glued to wood is not allowed. If packaging material of non-processed wood, mark in accordance of ISPM 15 regulations.	Small size items NOT OK!  OK!  

5.2. Packaging Types and Specifications



This is an overview of the different packaging types utilized within Thermia.

The packaging types are categorized based on their specific designations. Please refer to the following descriptions to further understand the different packaging options available.

The dimensions provided below are listed in the order of Length (L), Width (W) and Height (H).

All measurements are in millimeters (mm).

Euro Pallets (E):

Name	Code	Length (mm)	Width (mm)	Height (mm)
EUR Pallet	E	1200	800	144
EUR Pallet 1 Collar	E1	1200	800	335
EUR Pallet 2 Collars	E2	1200	800	530
EUR Pallet 3 Collars	E3	1200	800	725
EUR Pallet 4 Collars	E4	1200	800	920
EUR Pallet 5 Collars	E5	1200	800	1120

Half Pallets (H):

EUR Half Pallet	H	600	800	144
EUR Half Pallet 1 Collar	H1	600	800	335
EUR Half Pallet 2 Collar	H2	600	800	530

Plastic Containers (P):

Plastic Container - Half	P1	1200	800	335
Plastic Container	P4	1200	800	800

Carton Pallets (C):

Carton Pallet Small	C2	1200	800	530
Carton Pallet Large	C5	1200	800	1120

Plate Stands (PL):

Plate Stand Small	PL1	1200	800	1900
Plate Stand Large	PL2	1200	1100	1900

6. Supplier Claims

GENERAL

Thermia will raise a complaint when there is a deviation from the agreed specification regarding the delivered product. The issue could have occurred either in production or at the end customer.

If only a few parts are faulty, we request a credit for those parts.

When dealing with a larger quantity of defective parts, we require that the supplier conducts an investigation accompanied by an 8D report.

Containment measures must have been implemented with a thorough examination of the to ensure that we do not receive any additional subpar articles.

8D REPORT

An 8D report is a problem-solving process with eight steps used to identify, analyze, and resolve issues in industries. It aims to improve product quality and drive continuous improvement. These are the different parts:

- **D1: Problem statement.** Clearly define the issue or problem encountered.
- **D2: Team formation.** Assemble a cross-functional team to address the problem.
- **D3: Immediate actions.** Identify and implement short-term measures to contain the issue.
- **D4: Root cause analysis.** Analyze the underlying causes of the problem.
- **D5: Corrective actions.** Develop and implement long-term solutions to address the root causes.
- **D6: Verification.** Confirm the effectiveness of the corrective actions taken.
- **D7: Preventive measures.** Identify and implement measures to prevent recurrence of similar issues.
- **D8: Closure and team recognition.** Close the 8D report and recognize the efforts of the team involved.

Chapter 6.1.1 provides a more detailed description of the essential components of a 8D Report.

DPPM (Defects Parts Per Million)

Every month Thermia examine the DPPM per supplier to measure the quality performance and precision. When a part exhibits significant deviations, we seek corrective actions for it.

6.1. 8D Report



In the following, we outline some key components of an 8D report.

The identification number assigned to a rejected or non-conforming part.

The organizational roles or positions responsible for leading and participating in the process.

Engineering Change Number indicates the change order number, if applicable, for the specific part that is identified as faulty.

The specific production area or department where the problem was identified or originated.

		8D REPORT		8D nr.: 1	
PROJECT	TYPE (ENG, SUPPL, MANUF):	ECN:	SUPPLIER:	DATE:	
REJECTION NR :		PROD AREA:			
D 1 Champion Member Member Member Member		D 2a Customer Problem Description (What's <u>reported</u> as wrong?)			
		D 2b Detailed Internal Problem Description (What's actually wrong with what?)			
D 3 Immediate <u>containment</u> actions (Plus verification)		Location	% effective	Date implemented	
D 4a <u>True root cause</u> of failure					% Contribution
D 4b Root cause of <u>escape</u> (failure to detect)					
D 5 Long term <u>corrective</u> actions (LTCA)					Date Implemented
D 6 <u>Validation</u> of long term corrective actions					Date Implemented
D 7 Actions to <u>prevent</u> repeat failures					Date Implemented
D 8 Team closure, recognition and sign off		Date closed		Closed By	
		/			

The section where the root cause analysis and correction are identified and implemented.

The measure of how successful the implemented correction were.

The specific date when the correction were implemented.

The percentage of a specific root cause or factor in contributing to the problem being investigated and resolved.

