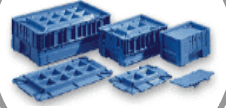


*Our mission is GO.™*

# Supplier Packaging Manual

-Tenneco Europe-



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## List of Abbreviations and Glossary

BOM	<b>Bill of Material</b>
Tenneco Corporate Logistics	Tenneco central organization that designs and reconfigures existing and/or new projects in close collaboration with all other business functions to ensure Tenneco has the most balanced and cost efficient supply chain.
EC	Tenneco <b>Emission Control</b>
GSCM	<b>Global Supply Chain Management</b>
Handling Unit	A handling unit consist of several packaging units bundled on one pallet (e.g. n KLT + Lid + Pallet). With bulk goods a single container can also act as handling unit. Tenneco distinguishes between two types of handling units (Pallet or Mixed Unit).
Inbound Material and Logistics Protocol:	Tenneco standard document – Generic operational agreement on supply-chain's local plant level. Required as part of supplier nomination process to be completed before Production Part Approval Process.
IPPC	<b>International Plant Protection Convention</b>
ISPM 15	<b>International Standards for Phytosanitary Measures - Guidelines for Regulating Wood Packaging Material in International Trade.</b>
KLT	“ <b>Kleinladungsträger</b> ” – VDA standard container type. Size, weight and basic material fixed in VDA standards.
ODETTE	<b>Organization for Data Exchange by Tele Transmission in Europe</b> - Non profit organization of the automotive industry with headquarter in Great Britain. Objective: standards in the area of the logistics, EDI and construction data exchange.
Packaging	Container or wrapper for a product that serves a number of purposes including protection and

	description of the contents, theft deterrence, and transportation safety. The packaging is the content. The ready packed product is the Packaging Unit. Several Packaging Units form a Handling Unit.
Packaging Instruction	Tenneco standard document wherein the Tenneco part number is related to the Packaging Bill of Material.
Packaging Proposal Form	Tenneco standard form that is used for the packaging planning and reengineering process.
Packaging Unit	A Packaging unit is the smallest possible order quantity. It consists of either returnable packaging (e.g. KLT, steel box...) or one-way packaging.
Packing	To pack the components into the packaging material and prepare the packaging units for transport.
RC	Tenneco <b>R</b> ide <b>C</b> ontrol
RFQ	<b>R</b> equ <sup>e</sup> st for <b>Q</b> uotation
SBU	<b>S</b> trategic <b>B</b> usiness <b>U</b> nit
SCIRP®	<b>“Supply Chain Impact Request Process”</b> Tenneco standardized Process which formally manages any requested changes of “Current” or “Future” Supply Chains and logistical parameters with the goal to understand the business- and cost impacts incurred.
SPI	<b>S</b> ociety of <b>P</b> lastics <b>I</b> ndustry
SupplyWEB®	Global Tenneco tool for standardized replenishment processes.
VDA	<b>“Verband der Automobilindustrie e.V.”</b>

# **1 General Guidelines**

## **1.1 Preface**

This Manual is effective for all production related parts that suppliers and inter-company plants deliver to Tenneco plants in Europe. It is valid starting with the release date and sets forth uniform standards and common processes for the planning and review of packaging materials used. These standards are necessary to ensure general accountability for quality and maintain consistently high quality performance and continuous cost reduction. The contents are guidelines to be used by all parties involved in the packaging process and describe Tenneco's packaging requirements concerning quality, safety, handling and labeling.

These general requirements may be modified by additional requirements of the receiving Tenneco facility, to be published individually, or by specific Tenneco inter-company policies.

Available additional requirements:

Germany: Plant Edenkoben (please look at chapter B.5.0 Logistics)

Any deviations or alterations from this manual must be approved by Tenneco Corporate Logistics separately (Contact details see: 1.5 Tenneco Central Contact)

## **1.2 Supplier Responsibility**

- It is the suppliers' responsibility to ensure that the goods are packed in such a way that they arrive in good condition. Supplier is responsible for product quality from the manufacturing source to the point of use (linefeed at the assembly line).
- Suppliers must quote all business in compliance with these guidelines, and include a breakdown of packaging cost elements identified by Tenneco.
- To ensure worker safety and loss prevention, packaging design shall consider all human interaction. For parts considered for a small container manageable by one person, 15 kg (35lbs) is the recommended limit. For parts packed in larger containers that require material handling equipment, drop doors may be required. Drop door height shall be approximately 50% wall height.
- Packaging design must protect the product, be ergonomic for users, and meet lowest total cost requirements particularly with regard to efficient

- transport utilization and lean management demands (e.g. Line side feeding, batch sizes).
- The supplier is responsible for ensuring that correct labeling is provided for all packaging in line with this manual and the herein mentioned automotive standards.
  - The supplier is obliged to complete all the packaging shipping documents in accordance with this manual and the automotive standards referenced herein.
  - As part of the Tenneco process of continuous improvement, alterations to the approved packaging may be requested by Tenneco. Suppliers shall respond quickly to such requests and manage packaging changes immediately.
  - The supplier shall ensure that full contact details of one “Packaging Contact” are provided in all correspondence with Tenneco, including contact name, supplier Code, e-mail address, telephone and fax numbers.
  - Though returnable packaging is preferred, some instances may require one-way packaging. In these cases, all expendable packaging must be readily recyclable or economically and legally disposed of in accordance with local legislation. Tenneco also encourages the use of recycled content in its packaging materials.

**Supplier responsibility especially in the case of Tenneco provided returnable packaging:**

- The supplier will be informed from Tenneco about the standard pool size they are allowed to have (see: 6.1.1.Pool Size Calculation).
- The supplier is responsible for book-keeping records of the packaging in and outbound movements. The supplier should provide the book-keeping information to all Tenneco plants it is shipping to, on a monthly basis. In case of discrepancy the supplier will be informed of wrong movements from Tenneco with packaging delivery notes as an evidence (see: 6.1.2. Operational Management).
- The supplier shall count the physical inventory half-yearly and report the results to Tenneco. In case of lost or damaged packaging in the supplier stock , Tenneco will charge the supplier for the packaging replacement cost (See: 1.4 Supplier Performance / 6.1.2 Operational Management).
- Each supplier shall develop a contingency plan as alternative packaging solution. This alternative packaging will be documented in the same way as standard packaging in a packaging instruction. (See: 3 Standard Packaging Instruction)

## **1.3 Contractual and Pricing**

### **1.3.1 RFQ Phase**

While quoting for new or existing business the supplier shall comply with the requirements of the Tenneco Quote Sheet that are provided to the supplier during the RFQ Process. To quote, the supplier shall choose one of the specified standard packaging sizes. The supplier acknowledges that a quote will be at a disadvantage if the requirements of the Tenneco Quote Sheet are not followed. In such a case Tenneco will add packaging related costs (e.g. Repacking) to the quote to make all quotes comparable.

The returnable packaging costs in each quote shall be amortized in two years.

The supplier's quote in each case shall **include Packaging**. This means that the supplier shall provide prices for the standard packaging. Furthermore the supplier shall present the quantity of parts per box and the quantity of boxes per pallet/container, taking into account the given weight restrictions and environmental, health and safety requirements.

### **1.3.2 Launch Phase**

The Launch Phase is the process of initial packaging development and agreement. (See: 2 Packaging development and reengineering process).

This Packaging Manual is part of the operational agreement between Tenneco and the supplier. The supplier is in charge of the packing itself. Packing means to pack the components into the packaging material (container/box, bag, layer and so on) and to prepare the packaging units for transport. The way of packing is fixed in the packaging instruction. (See: 3 Standard Packaging Instructions)

In case of supplier-provided packaging the packaging costs shall be identified and integrated as part of the piece price. The amortization of returnable packaging investment should be calculated based on two year's volume.

Generally this means that the investment of the returnable packaging will be also paid off in two years. After two years Tenneco will no longer pay the cost share of the packaging investment in the piece price. If the project lifetime is shorter than these two years the supplier shall adjust the pay off time to the lifetime of the concerned parts.

The final determination as to whether packaging will be purchased or rented by Tenneco or whether the packaging will be amortized as a part of the piece price will be made by Tenneco Corporate Logistics.

Costs for alternative packaging (in general purchasing costs) shall be agreed with receiving Tenneco plants and documented in the Inbound Material and Logistics Protocol.

The supplier shall ensure that all pricing of packaging is agreed with the responsible Tenneco buyer.

### ***1.4 Supplier Performance***

Supplier's compliance with the packaging manual and the packaging instructions will be taken into account in Tenneco's assessment of the supplier's performance. Also critical is whether the deliveries are delivered in the agreed and proper packaging, with the agreed filling degree and with the prescribed and accurate goods-accompanying information.

Tenneco communicates with the supply base through a global tool for standardized replenishment processes. The platform SupplyWEB® is a B-2-B internet application designed to facilitate communication between suppliers and Tenneco that helps to reduce costs associated between supplier and customer.

The measurement and monitoring of supplier's performance will be managed via this internet tool. The guidelines in this manual should be reviewed as stringent directives for that purpose.

### ***1.5 Tenneco central contact***

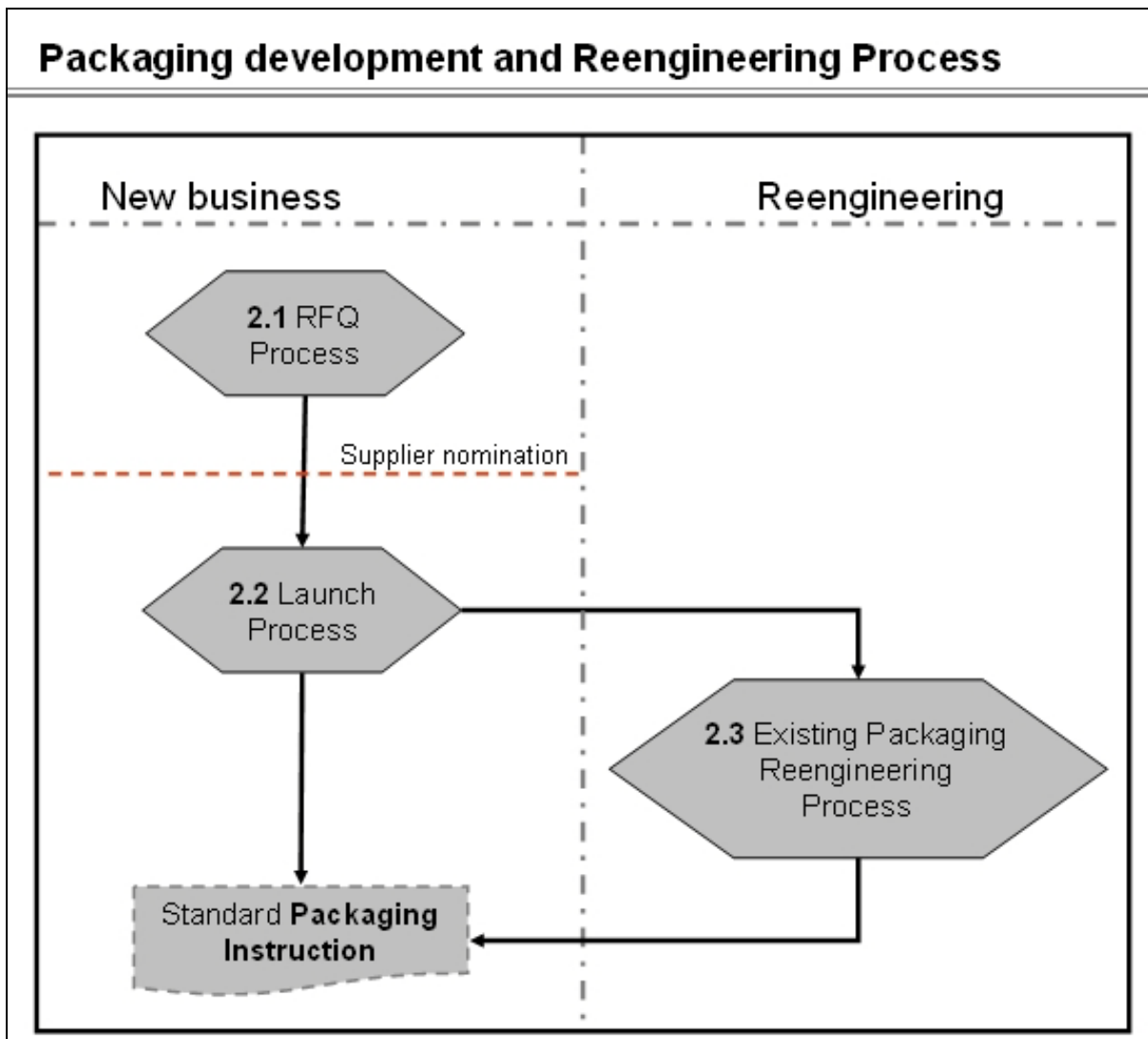
In addition to the responsible Tenneco Buyer your central contact for issues related to this Manual and Packaging Development and Reengineering will be:

Email: **packaging@tenneco.com**

## 2 Packaging development and reengineering process

The process described in this section provides a detailed statement of requirements on how the Packaging development and reengineering for new and existing business will be executed. This process is split in RFQ Process (prior to supplier nomination), the Launch Process (initial Packaging development) and the Packaging Reengineering Process (applicable for existing packaging).

The target of this process is to assure uniform standards and common processes for the planning and reengineering of packaging at optimal cost. Unique Packaging Instructions (see: 3.3 Content of standard Packaging Instructions) that are stipulated between Tenneco and the supplier are the basic means to guarantee this.



## **2.1 RFQ Process**

When Tenneco publishes a Request for Quotation the Tenneco Quote Sheet is made available to the supplier. All fields contained in this template are mandatory with respect to packaging.

For the purpose of the quotation the supplier shall choose one of the therein mentioned standard packaging sizes to calculate and offer its quote. This should happen in particular with regard to efficient transport utilization and lean management strategies (e.g. Line side feeding, batch size). The supplier acknowledges that a quote will be at a disadvantage if he does not stick to the requirements of the Tenneco Quote Sheet and the referenced standard packaging sizes are not followed. In such a case Tenneco will add packaging related costs (e.g. Repacking) to the quote to make all quotes comparable.

## **2.2 Launch Process**

After supplier nomination, the responsible Tenneco buyer will issue a Tenneco internal **Supply Chain Impact Request Process (SCIRP)** to ensure Tenneco has the most balanced and cost efficient supply chain. By doing so, the buyer provides all project related data to Tenneco Corporate Logistics (e.g. name and contact of supplier, concerned part numbers with dimensions and weights, annual volume, etc.). With the help of this information, Tenneco Corporate Logistics validates the project through a business case analysis. Tenneco Corporate logistics coordinates between the involved parties (Tenneco plant, Tenneco buyer and supplier).

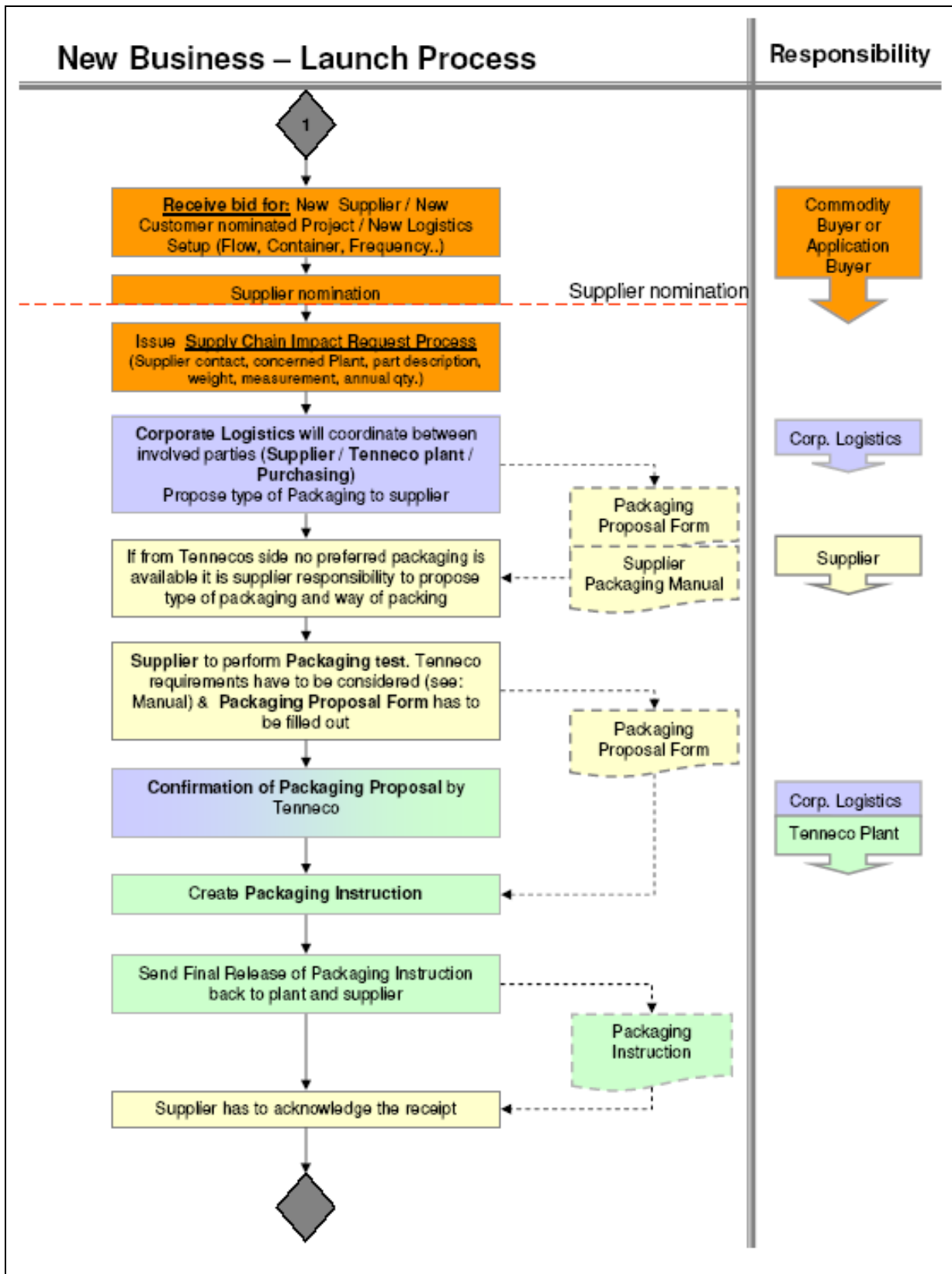
If a Tenneco preferred Packaging is available, it will be communicated to the supplier by means of the **Packaging Proposal Form (Attachment 1)**. If no Tenneco preferred Packaging is offered in this Form, the supplier may choose a packaging type out of the Tenneco Packaging Catalogue.

Subsequently, it is suppliers' responsibility to perform a packing test, fill out the Packaging Proposal Form and send this to Tenneco Corporate Logistics. The final decision which packaging to be used (standard and alternative) and the manner of packing is Tenneco's.

When all needed info is finally fixed, Tenneco creates a Packaging Instruction in a central database. This Packaging Instruction will be sent to the supplier and the process is completed when the supplier acknowledges the receipt and the acceptance of the Packaging Instruction.

Alternative Packaging will be determined in the same way and will also be fixed in a Packaging Instruction. The alternative Packaging should be of a like kind and similar in size to the standard packaging

The Packaging Launch Process will be kicked off during the Production Part Approval Process (PPAP).



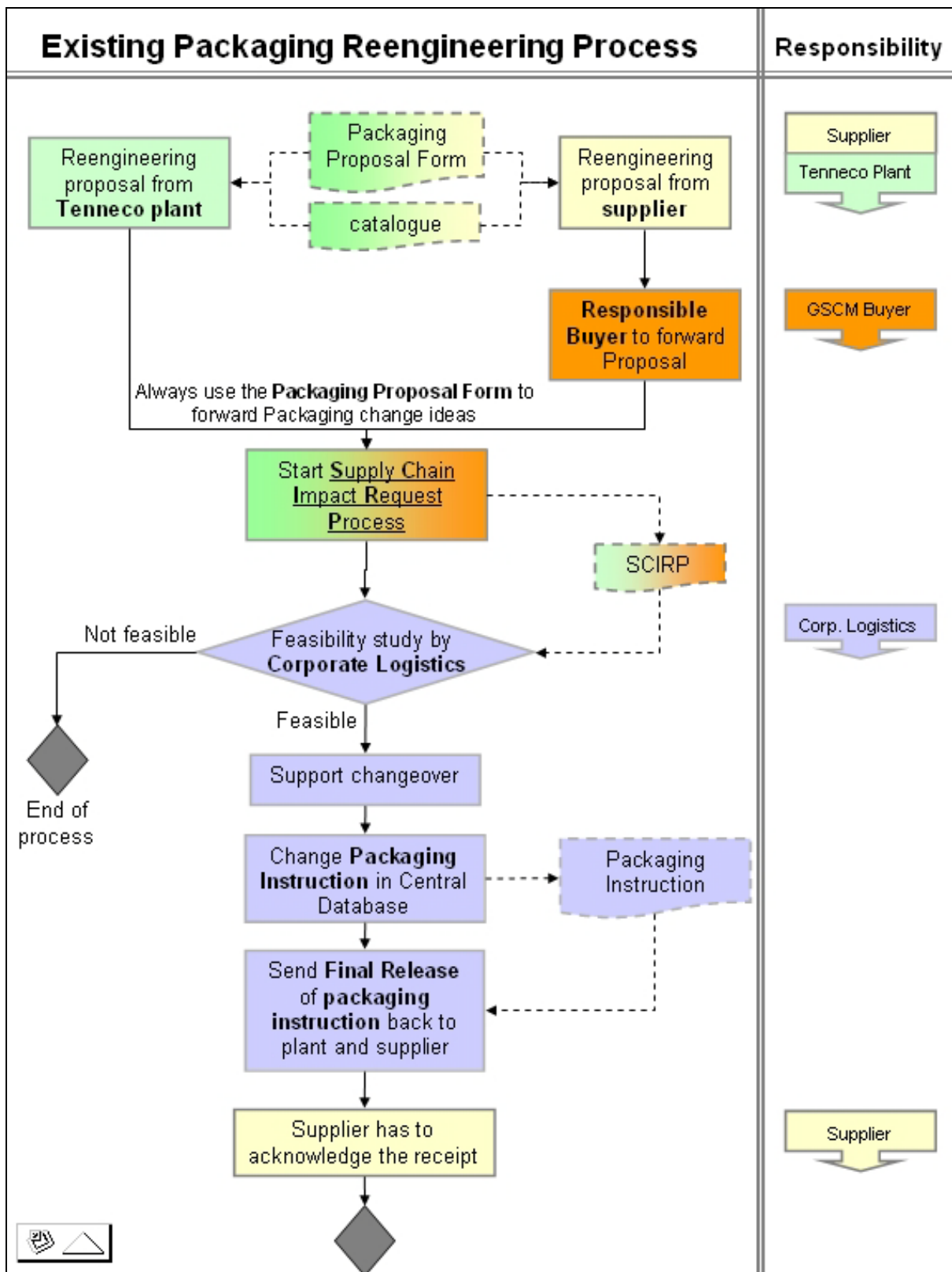
## ***2.3 Existing Packaging Reengineering Process***

Packaging change ideas or reengineering proposals may be initiated by the supplier, by Tenneco Plant or by Tenneco Corporate Logistics.

The supplier shall make proposals or disclose them where reasonable. In this case, the supplier shall address each proposal for existing packaging reengineering to the responsible GSCM buyer. The buyer will then forward the proposal via SCIRP to Tenneco Corporate Logistics. If a Tenneco plant proposes a packaging change a SCIRP has to be issued.

All reengineering proposals shall be completed using the Packaging Proposal Form. The actual packaging shall be entered in the first column of the Form. The new proposal shall be entered in the second column. The proposed packaging must comply with the provisions of this packaging manual.

The Packaging Instruction shall be amended according to the physical changes. The adjusted Packaging Instruction will be sent out to the supplier and the process is completed when the supplier acknowledges the receipt and the acceptance of the Packaging Instruction.



## **3 Standard Packaging Instructions**

### ***3.1 Process description***

Once the packaging type and the manner of packing are agreed the supplier shall enter all relevant information into the Packaging Proposal Form. Tenneco will generate a Packaging Instruction (See: 3.3 Content of standard Packaging Instructions). Subsequently, Tenneco will send the completed Packaging Instruction to the plant and the affected supplier. The supplier shall acknowledge the receipt of the Packaging Instruction. The Packaging Instruction, in line with this Packaging Manual, will be effective starting with the release date. Alternative Packaging shall be determined in the same way and will also be fixed in a Packaging Instruction.

For changes of existing Packaging Instructions see: **2.3 Existing Packaging Reengineering Process.**

### ***3.2 Content of standard Packaging Instructions***

The Tenneco standardised Packaging Instructions contain the following information:

- Tenneco part number
- Customer part number
- Supplier part number
- Supplier name and number
- Receiving Tenneco plant
- Part description
- Picture of the Packaging Unit and/or Handling Unit
- Allocation of the Packaging (Tenneco, Customer, Supplier)
- Way of packing (bulk goods, Parts sorted, single component packed, special packing)
- Type of Packaging (One-way, returnable, combined packaging)
- Type of instruction (Standard, Alternative Packaging 1, Alternative Packaging 2)
- Weights (per component, per Packaging Unit, per empty Packaging Unit, per Handling Unit)
- Bill of Material of Handling Unit
- Labeling
- Closing
- Remarks

- Date of writing, Name of originator
- Revision date



## Packaging Instruction

**Tenneco part no** 4755 **Supplier** 11111178787 Meyer GmbH  
**Customer part no** 6767695 **Receiving plant** Arendal EC OE  
**Supplier part no** 2222 **Part description** Halter



**Packaging Instruction**  
 valid from 30.11.2006

### Allocation of the packaging

- ☐ Supplier  
☒ Tenneco  
☐ Customer

### Way of packing

- ☒ Bulk goods  
☐ Parts sorted  
☐ Single components packed  
☐ Special packing

### Type of packaging

- ☒ Returnable packaging  
☐ One-Way packaging  
☐ Combined packaging

### Type of packaging instruction

- ☐ *Standard*

Weights	Component	Packaging Unit	Empty Packaging Unit	Handling Unit
in kg	4	12,01	2	14,01

### Bill of material of Handling Unit

Pos.	no. of packaging units	Name of the packaging	L (mm)	W (mm)	H (mm)	Tenneco packaging code	capacity per packaging unit
1	48	KLT 4314	400	300	147	5000456	24
2	1	EUR Pallet	1200	800	140	5000460	
3	1	KLT Pallet Lid	1200	800	10	5000497	
4							
5							
6							
7							

**Labeling** see: TENNECO SUPPLIER PACKAGING MANUAL

**Closing** Please close handling unit with pallet lid

**Remarks** 6 layers / 8 KLT per layer

Print date 27.02.2007 Revision date  
 Date of writing 30.11.2006 Name  
 Name of originator K.Kube

## **4 European standard packaging types and handling requirements**

Tenneco standard packaging types are defined in the **Packaging Catalogue (attachment 4&5)**. The catalogue is split into returnable packaging standards and one-way packaging standards. The specified containers will be assigned for circulation between the supplier and Tenneco.

The containers may not be diverted from their intended use without prior written authorization from Tenneco e.g. for:

- the supplier plant internal circulation within manufacturing, if it exceeds the agreed turnover time (See: 6.1.1 Pool Size calculation),
- the temporary storage of semi-finished goods,
- an overrun of the agreed usual storage days of empty packaging material,
- the delivery of or to third parties.

The choice of packaging must take into consideration all demands of this packaging manual, the packaging instruction and supplemental local Tenneco requirements. Tenneco reserves the right to make the final decision concerning the type of packaging on the basis of internal cost calculation.

### **4.1 General Definitions**

#### **4.1.1 Returnable Packaging**

Wherever possible and reasonable from an economic point of view, returnable packaging is preferred. Returnable packaging must be capable of being used for multiple return trips. Its design requires:

- Ability to be stacked,
- preferably being collapsible into smaller volume for easy storage when not in use,
- durability and washability, lightweight and strong,
- Ability to be easily filled, emptied, assembled and disassembled,
- ability to be attached to pallets for easy lifting and handling

Returnable packaging reduces the production of waste materials and protects the environment. A Tenneco nominated third party provider can be used for returnable packaging management. (See: 6.3 Third party provided packaging)

#### ***4.1.2 One-Way Packaging***

When application of returnable packaging is not possible or reasonable one –way packaging shall be selected. It is foreseen that this kind of packaging will be used for only one delivery.

Therefore, it is required that one-way packaging is:

- environmentally friendly disposable,
- preferably stackable,
- easy and safe access to the parts has to be ensured,
- able to provide protection against corrosion and all types of damages.

#### ***4.1.3 Packaging Unit***

A Packaging unit is the smallest possible order quantity. It consists of either returnable packaging (e.g. KLT, steel box...) or one-way packaging.

#### ***4.1.4 Handling Unit***

A handling unit consist of several packaging units bundled on one pallet (e.g. x KLT + Lid + Pallet). The way of packing a handling unit shall be specified in the packaging instruction. In case of bulk goods, a single container can also act as a handling unit. Tenneco distinguishes between two types of handling units.

##### **4.1.4.1 Pallet**

A normal pallet contains only one part number of production material.

##### **4.1.4.2 Mixed Unit**

A mixed Unit contains several Tenneco part numbers of production material on one pallet. (See also chapter: 5.4 Mixed Unit labeling)

## **4.2 Dimension and Weight**

In general, Tenneco requires EUR pallet basic size (1200 mm x 800 mm) as standard basic size for complete Handling Units that are shipped on continental transport modes. For intercontinental transports (e.g. Sea freight) special basic sizes need to be chosen that ensure best transport utilization.

15 kg is the recommended limit for parts considered for a small container manageable by one person. For parts packed in larger containers that require material handling equipment, drop doors may be required. Drop door height shall be approximately 50% of the total wall height.

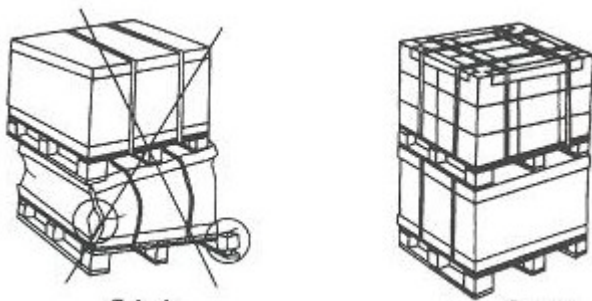
The complete load height per handling unit may not exceed 1 m unless otherwise agreed with the receiving Tenneco facility.

Steel Coils shall be secured during transport in such manner that no damage is done to the product. Tubes shall be packed in bundles and secured by min 3 straps. During transport span sets shall secure the load, the number of span sets required are to be specified by the receiving plant.

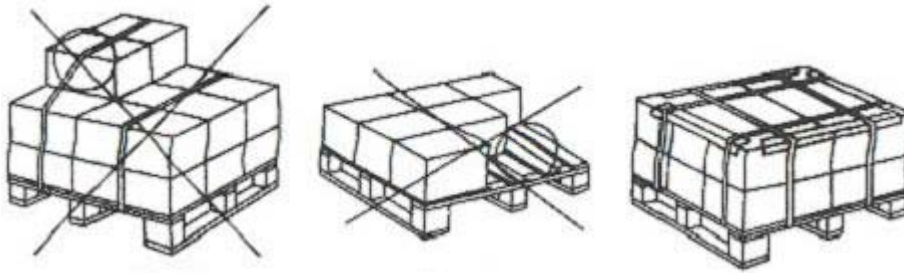
All maximal weight and dimension requirements for returnable packaging can be found in the Packaging Catalogue.

## **4.3 Stacking and Strapping Requirements**

Supplier will guarantee the stability and stackability of the packaging and handling units. Incomplete layers shall be avoided. Edge protection and strapping shall be used if it is required by the security of the handling unit or fixed in the packaging instruction.



When using KLT, the total weight of 15 kg may not be exceeded. KLT shall be shipped only in complete layers. (If the order quantity is less then a layer each layer has to be filled with an empty KLT).



#### ***4.4 Packaging Shipping Documents***

The packaging shipping documents provided by suppliers shall contain the type and quantity of packaging material and the Tenneco part numbers per container delivered to Tenneco. All packaging data and production material data shall be listed on the same delivery note. The Tenneco packaging number must be in the delivery notes. Separate delivery notes for packaging and for production material are prohibited. ASN ( Advanced Shipping Notification) sent electronically , via EDI or the Tenneco SupplyWEB Platform, should also include the packaging information unless advise differently by the Tenneco plant the supplier ships to.

Some of the Tenneco plants (especially for inter-company shipments and aftermarket deliveries) use special packaging shipping documents (Packaging lists). If instructed to do so suppliers must follow these local requirements.

#### ***4.5 Import regulations for packaging containers made from solid wood - IPPC standard***

Many countries have put quarantine regulations in place to protect their native forests from the introduction of wood pests. In order to prevent the proliferation of differing import regulations, the International Plant Protection Convention (IPPC) Secretariat, part of the Food and Agriculture Organization (FAO) of the United Nations, has issued ISPM 15 (International Standards for Phytosanitary Measures) "Guidelines for Regulating Wood Packaging Material in International Trade".

The key features of IPSM 15:

- IPSM 15 applies only to solid wood, with derived timber products and solid wood thinner than 6 mm (according to the EU Harmonized System) being exempt.

- Treatment of the packaging by approved measures, which include heat treatment (HT) to a core temperature of 56°C for at least 30 minutes, for example by kiln drying (KD), provided that the above-stated specifications are achieved. Chemical pressure impregnation (CPI) is approved only if the required HT specifications are achieved, which is not generally the case. Another measure is fumigation with methyl bromide (MB) depending on concentration, duration and temperature.
- Permanent and legible marking of the packaging must be provided on two opposite sides of the package. The mark is composed of the ISO 3166 two letter country code (e.g. DE for Germany), the regional identifier (e.g. NW for North Rhine-Westphalia) and a registration number issued by the regional phytosanitary authority to the packaging container manufacturer, the packer or the consignor (unique number beginning with 49). The treatment method is denoted by the abbreviation HT for heat treatment or MB for fumigation with methyl bromide. The letters DB may also be included where debarking is required.

#### Example of IPPC



- IPPC symbol
- Country code to ISO 3166, e.g. DE for Germany
- Regional identifier, e.g. NW for North Rhine-Westphalia
- Registration number, unique number beginning with 49.
- Treatment method, e.g. HT (heat treatment), MB (methyl bromide), if applicable, DB (debarked)

In order to meet the requirements of the IPPC, the importing supplier must comply with the latest revision of the **ISPM 15**. Every packaging design for Tenneco shall be made in accordance with this directive.

## 4.6 Recycling and environmental requirements

Packaging shall be planned taking into account basic economic and ecological concerns. Environmental legislation concerning waste focuses on the following principles, which reflect ecological priorities:

- **Avoidance** to be limited to the absolute minimum.

- **Reduction** of diversity. The supplier should use as few as possible different types of one-way packaging material in order to reduce the recycle handling.
- **Recycling** - Environmental recycling must be possible for both returnable and one-way packaging.

The European Union is seeking to harmonize national measures concerning the management of packaging and packaging waste to provide a high level of environmental protection and ensure the functioning of the internal market.








In order to meet the requirements of environmental protection, the supplier must comply with the latest revision of **European Communities Directive 94/62/EC**<sup>1</sup>. Every packaging design for Tenneco shall be made in accordance with this directive. To avoid unnecessary environmental pollution, only environmentally compatible materials are permitted.

### **Environmental responsibility especially in the case of plastic packaging:**

To facilitate the recycling of a product, its identification must be known. Therefore, all plastics (expendable & one-way) shall be marked with the material identification symbol. There are numerous types of plastics used for automotive packaging, which require a simple method of identification. Tenneco requires the SPI (Society of Plastics Industry) coding. The SPI code chart is shown below.

Existing Packaging without coding does not need to be coded afterwards. This rule is applicable for new packaging development only.

### **Plastics Identification codes** devised by the Society of Plastics Industry (SPI):

	Polyethylene Terephthalate		Low Density Polyethylene		Other
<b>PET</b>		<b>LDPE</b>		<b>OTHER</b>	
	High Density Polyethylene		Polypropylene		
<b>HDPE</b>		<b>PP</b>			
	Polyvinyl Chlorid (PVC)		Polystyrene		
<b>V</b>		<b>PS</b>			

<sup>1</sup> <http://europa.eu/scadplus/leg/en/lvb/l21207.htm>

## 5 Labelling Requirements

### 5.1 Label

The label serves for the identification of packaging units in the plant-internal material flow and on the route of transport between supplier - forwarding agent - goods receiver. Therefore, the supplier shall ensure that all packaging units are marked with a barcode label. In particular the supplier will guarantee that the information on the label matches with the content of the packaging unit.

To avoid misunderstandings, labels that are out of date shall be removed from the packaging units by the supplier before the delivery to Tenneco.

**Tenneco Label requirements based on the ODETTE Transport Label guideline or VDA guideline 4902 can be found in Attachment 6.**

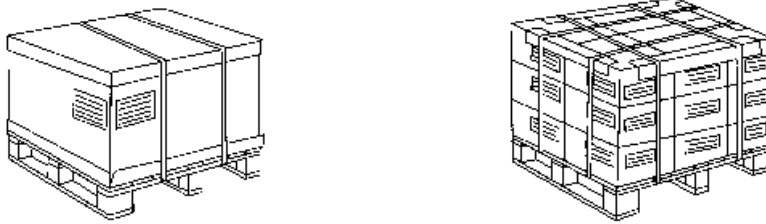
Tenneco requires the following labels to be attached:

- ***Handling Unit Master Label:***  
Applied to each transportation pallet / handling unit.
- ***Packaging Unit Label:***  
Applied to each Small-Part-Container (e.g. VDA KLT), to each small cardboard box or to each Packaging Unit. The Packaging Unit Label serves to identify the parts in the manufacturing process and/or in storage.

Tenneco recommends using paper of at least 130 – 150 g for the labeling of each handling unit, this is to avoid labels dropping off or disintegrating through humidity.

## **5.2 Position and Fixing of the Label**

If the box is equipped with a Label holder the label shall fit into this pouch. If no label holder is available the label may be fastened with four adhesive dots at each corner in such a way that the dots do not cover up the bar code or any information on the label. The used adhesive dots shall be easily removed and shall leave no residues. Self-adhesive labels shall not be used for returnable packaging.



With standard containers (EUR size 1200 mm X 800 mm) the label is to be fastened to the sharp side on the top right.

## **5.3 Mixed Unit labeling**

A mixed unit contains several part numbers within one pallet for a Tenneco location. The supplier shall ensure that packaging units contain preferably the same material number on one pallet. Rest batches can be packed on a mixed unit. Each box of such a mixed unit shall be marked with a separate ODETTE or VDA label. Additionally every mixed pallet shall be marked with a label "mixed pallet". This sheet shall have the size of at least 295 X 210 mm (DIN A4 sheet). The writing shall be in block letters.

## **5.4 Standardization of Label**

Tenneco communicates with his supply base through a global internet tool for standardized replenishment processes – SupplyWEB®. It is possible to generate

labels and other shipping documents from this B2B platform. The following website:

<https://supplyweb.tenneco.com/supplyWeb/account/login> provides suppliers with a printing facility, out of which labels can be generated.

The screenshot shows the 'Bar Code Labels' generation page in the SupplyWEB system. The page is viewed in Microsoft Internet Explorer. The left sidebar contains a navigation menu with options like Demand, Kanban, Supplier Managed Inventory, Shipments, Receipts, Delivery Performance, Parts Per Million, Supplier Performance, Reports, Communications, Security, Preferences, Setup, Customer Profiles, Edit Address, Facilities, Ship To's, Suppliers, Part Create, Part Maintenance, Containers, Bar Code Label Layouts, Supplier Cross-Reference, Label Templates, Reset CUMs, Reset Schedule CUMs, Launch Setup Wizard, and Help.

The main content area displays a form for generating a bar code label. The form is divided into several sections:

- Top Section:**
  - (1) Warenempfänger: XXXXX, City Name, PostalCode
  - (2) Abladest./Lagerort/Verwendungsschl.: Dock1
- Middle Section:**
  - (3) Lieferschein-Nr. (N): 123
  - (4) Lieferanten-Adresse (Kurzname, PLZ, Ort): Ship From Name City Name, PostalCode
  - (5) Gewicht Netto, (6) Gewicht Brutto, (7) Anzahl Packstücke
  - (8) Sach-Nr. Kunde (P): AQP (with logo)
- Bottom Section:**
  - (9) Füllmenge (Q): 100
  - (10) Bezeichnung Lieferant, Leistung: Customer Part Description
  - (11) Packmittel-Nr. Kunde (B): BOX90
  - (12) Lieferanten-Nr. (V): SupplierID
  - (13) Vers.-Datum: 15.01.2004
  - (14) Änderungsstand: LVL1
  - (15) Packstück-Nr. (S): SN-11
  - (16) Chargen-Nr. (H): LotAA

The form includes several barcode fields corresponding to the data entered. The bottom of the page shows a status bar with '20 x 15 in' and '1 of 1'.

SupplyWEB Labels Set up process information can be found in **Attachment 7**.

For more information the suppliers can also contact their Tenneco plant contact.

## 6 Management of returnable packaging

The returnable packaging can be provided by four different parties:

- Tenneco provided (see: 6.1, 6.2)
- Supplier provided (see: 6.3)
- Third party provided (see: 6.4):
  - Rental pool
  - Sell and buy system
- Customer provided

### 6.1 *Tenneco provided packaging*

#### 6.1.1 *Pool Size calculation*

##### 6.1.1.1 Process

The calculation of the pool size represents a fundamental element to manage returnable packaging flows. Therefore, Tenneco will book all packaging movements into separate accounts for each supplier. For that reason, the starting balance per packaging type must be calculated consistently. The below mentioned formula is the Tenneco standard for calculating packaging pool sizes.

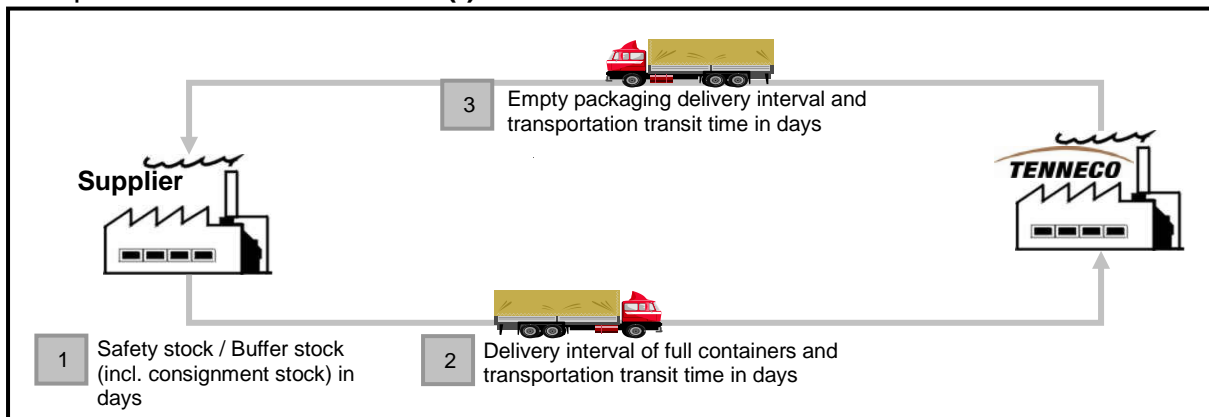
In line with the operational management process (see 6.1.2 Operational Management), the pool size calculation will enable the management of the pool of Tenneco owned packaging. The process of ordering, returnable pool size calculation and days-of-holding allowance shall be agreed and clearly documented on the inbound logistics and material protocol. If the pool size is not agreed between the supplier and Tenneco plant, Tenneco is allowed to set a size limit based on the experience made with this packaging flow.

##### 6.1.1.2 Formula and Parameters

$$P = \frac{\frac{AyP}{wd} * t}{q}$$

- P** **Pool size** – Number of Packaging Units needed to ensure sufficient box supply throughout the whole supply chain. It is the base quantity of the administration of the returnable packaging.
- AyP** Average yearly production – Has to be calculated for project lifetime and adjusted if the annual production underlies strong volatility.
- wd** Working days – In general, Tenneco calculates 240 working days per year. This may be adjusted if there are differences between different countries.
- q** Parts per container – Defined in the packaging instruction
- t** Turnover time - Number of days one container needs to circulate one loop between supplier and Tenneco. The turnover time consists of four elements shown in the graphic below and is calculated in working days.

#### Components of **turnover time (t)**



Example of a **pool size calculation** for containers and trays



- The supplier orders until at latest Wednesday 12 o'clock for the following week at the Tenneco Customer Plant. Tenneco decides which quality level of boxes will be delivered, for example, new or used boxes.
- The supplier has to use the given **Returnable Packaging Ordering & Release Form (attachment 2)** to communicate his demand to the Tenneco customer plant. If not otherwise agreed with the receiving Tenneco plant.
- Referring to the upfront agreed Pool Size (see 6.1.1 Pool Size Calculation) Tenneco provides the agreed amount of containers free of charge (Safety stock / Buffer stock (incl. consignment stock)), if not otherwise agreed in the contract. If the supplier exceeds this amount a rental & administration fee will be issued for the additional needs. If the supplier is not able to send the boxes back, a new one at market price will be charged.

#### 6.1.2.2 Release Process

Process currently valid for **Standard Pool Boxes (such as EUR Gitterbox, EUR Pallet, KLT)** releases only.

- The supplier releases at the Tenneco Customer Plant.
- Minimum release quantity for Gitterbox is 16 (if not otherwise agreed)
- The supplier has to use the given **Returnable Packaging Ordering & Release Form (attachment 2)** to communicate his quantity to be released to the Tenneco customer plant

#### 6.1.2.3 Packaging goods receipt claim management

At incoming goods inspection, Tenneco checks whether the shipment is in compliance with this packaging manual and the specified packaging instruction. Tenneco reserves the right to charge to the supplier all costs and losses arising from supplier's failure to comply with the procedures stated in this handbook, including, but not limited to repacking, waste disposal, repairing and administration cost. The supplier's performance rating may also be affected.

A claim management is implemented for all European plants. Find a table with logistic nonconformity reasons and their cost in **Attachment 8**.

#### **6.1.2.4 Packaging movements & monthly reconciliation**

The Tenneco receiving plant books every packaging movement in a supplier nominated packaging account . These inventory balance shall be reconciled between the supplier and the Tenneco locations by the end of every month for the shipment made the previous month. In order to do so, the supplier should send, to each Tenneco facility they ship to, a monthly account statement including a list of all delivery note numbers shipped to the facility with their date and packaging quantities.

This report should be sent before the 10th of the month and follow the Excel format provide in Attachment 3. After two weeks any disputes from a supplier site will no longer be accepted. The supplier shall send the copy of each packaging delivery note as evidence for wrong movements.

#### **6.1.2.5 Packaging inventory count**

In addition to the monthly account reconciliation Tenneco requires an half-yearly check of physical inventory. Every six month , suppliers will be required to perform a packaging stock take on a specific weekend date and to report to Tenneco in a their written form their count by noon the next following working day .

Any deviations between the supplier's balance and the Tenneco accounts will be notified to both the suppliers and the Tenneco facilities they deliver to. The supplier must provide the necessary information for his accounts to be quickly reconciled so an agreement on the stock figures can be made in the following 4 weeks after the stock take . If the information are not received, or not received on a timely manner to allow the reconciliation to be made, the supplier will be charge for an administration fee in addition to the potential loss of boxes.

#### **6.1.2.6 Packaging cleaning, maintenance and repairing**

It is shipper's responsibility to deliver goods in intact and clean containers. The supplier has to check the quality of the boxes at delivery if there is nothing to complain. The supplier is in charge of repairing and maintenance for boxes where the damage is being caused by the supplier.

The supplier shall advice to Tenneco within two working days following receipt of damaged or dirty containers. Otherwise any costs for cleaning and maintenance of packaging carried by Tenneco will be charged to the supplier. **Therefore a supplier must check the quality of the empty boxes delivered immediately.**

**If there is no complain within two working days, the supplier confirms that the boxes were not damaged at the inbound in the suppliers plant.**

In the event that the cleaning of returnable packaging takes more than one day, the excess time will be added to the turnover time calculation.

## **6.2 Loop Size calculation**

### **6.2.1 Process**

The calculation of the loop size **(for project specific packaging/ not pooled packaging)** represents a fundamental element to manage returnable packaging flows. Therefore, Tenneco will book all packaging movements into separate accounts for each supplier. For that reason, the starting balance per packaging type must be calculated consistently. The below mentioned formula is the Tenneco standard for calculating packaging loop sizes.

In line with the operational management process (see 6.1.2 Operational Management), the loop size calculation will enable the management of the pool of Tenneco owned packaging. The process of ordering, returnable loop size calculation and days-of-holding allowance shall be agreed and clearly documented on the inbound logistics and material protocol.

### **6.2.2 Formula and Parameters**

$$L = \frac{\frac{AyP}{wd} * t}{q}$$

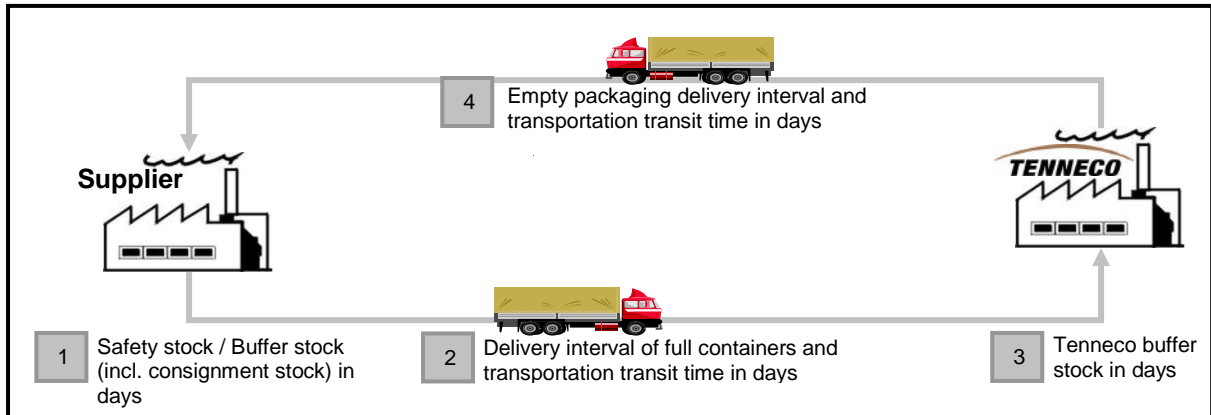
**L**     **Loop size** – Number of Packaging Units needed to ensure sufficient box supply throughout the whole supply chain. It is the base quantity of the administration of the returnable packaging.

**AyP**   **Average yearly production** – Has to be calculated for project lifetime and adjusted if the annual production underlies strong volatility.

**wd**    **Working days** – In general, Tenneco calculates 240 working days per year. This may be adjusted if there are differences between different countries.

- q** Parts per container – Defined in the packaging instruction
- t** Turnover time - Number of days one container needs to circulate one loop between supplier and Tenneco. The turnover time consists of four elements shown in the graphic below and is calculated in working days.

#### Components of **turnover time (t)**



#### Example of a **loop size calculation** for containers and trays

<b>Turnover time (t):</b>	<b>1</b>	Safety stock/Buffer stock	10	days
	<b>2</b>	Delivery interval of full containers and transportation transit time	7	days
	<b>3</b>	Tenneco buffer stock	5	days
	<b>4</b>	Empty packaging delivery interval transportation transit time	5	days
		SUM	27	days
AvP = Avg. Annual Prod. Volume =			87500	Pcs
wd= Working Days per Year =			240	Days
q = Capacity per Container =			70	Pcs/Container
<b>Pool size (P):</b>				
n Container = Required Quantity of Packaging in Pieces = $(Ayp / wd) + t / q$				
<b>= 141</b>				

### 6.3 Supplier provided packaging


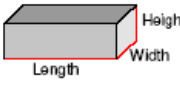
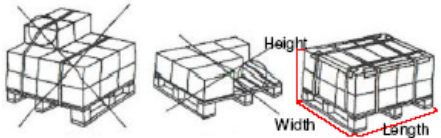
Supplier-provided packaging is not preferred, but may be allowed in specific circumstances. The release for such packaging is up to Tenneco.

#### ***6.4 Third party provided packaging***

Tenneco manages the returnable packaging through book-keeping and inventory balancing. Depending on the project, Tenneco reserves the right to nominate a third party or pool operator to manage the returnable packaging. This third party will be nominated separately. Contact details and process description of this third party will be announced to the involved parties through Tenneco Corporate Logistics as and when required.

# Attachments

## Attachment 1: Packaging Proposal Form


Packaging Proposal Form					
Supplier:		Commodity		Targeted Tenneco SBU	
Supplier Responsible Person:		Sub-commodity		Related project:	
Contact:					
Phone n°:					
E-mail:					
Rate of proposal:		Latest Update:		Date Approved:	
TEN Document n°:		Pos. 40.7.1		Revision: 1	
				Revision date: 01 April 2007	
PACKAGING PROPOSAL CHECKLIST					
	unit	Tenneco's proposal or existing		Please Complete Proposal Below	Tenneco Acceptance
<b>1. Packaging/Part information</b>					
<input type="checkbox"/> 1.1 Supplier					
Part Description					
Tenneco Part Number					
Final Tenneco Plant Destination					
Annual Quantity					
<input type="checkbox"/> 1.2 Part Weight					
Part Weight each	kg				
<input type="checkbox"/> 1.3 Packaging weight, material, integrity					
Packaging group					
Type / Name					
Tenneco Packaging Code					
Packaging Unit weight (empty Box)	kg				
Packaging Unit material					
Internal Dunnage weight	kg				
Internal Dunnage material					
Internal Corrosion Protection	if required				
Weight (empty Pallet)	kg				
Pallet material					
Number of parts per Packaging Unit					
Number of Handling Units per Layer					
Number of Packaging Units per Handling Unit					
Complete Handling Unit weight	kg				
How are Packaging Units secured to pallet?					
Is packaging assumed to be returnable?					
<b>2. Packaging Volumes</b>					
<input type="checkbox"/> 2.1 Box					
Length	mm				
Width	mm				
Height	mm				
Volume	m³	0			
<input type="checkbox"/> 2.2 Pallet					
Length	mm				
Width	mm				
Height	mm				
Volume	m³	0			
<input type="checkbox"/> 2.3 Overall Handling Unit (see Fig.1)					
Length	mm				
Width	mm				
Height	mm				
Volume	m³	0			
<input type="checkbox"/> 2.4 Labeling					
see Requirements in: <i>Supplier Packaging Manual</i>					
<input type="checkbox"/> 2.5 Supplier Shipping Location Information					
Zip or Postal Code & City:					
Country:					
Figure 1: Packaging Unit & Handling Unit dimensions				2.6 Foto of Packaging Proposal:	
<b>Packaging Unit</b> 		<b>Handling Unit</b> 			
<p>for additional info concerning Handling &amp; Packaging Requirements see: <i>Supplier Packaging Manual</i> at <a href="http://www.tasupplier.com">www.tasupplier.com</a></p>					
Supplier Submittal Authorization:					
Date:					
Tenneco Approval:					
Date:					

## Attachment 2: Returnable Packaging Ordering & Release Form

<b>RETURNABLE PACKAGING ORDERING &amp; RELEASE FORM</b>				
Date of order: <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>	Actual week: 25	Ordering for Calendar Week: <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> <small>(Actual week + 1)</small>		
From (SUPPLIER Name) <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 200px; height: 15px;"></span> For (TENNECO Plant) <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 200px; height: 15px;"></span>	Supplier Code <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 150px; height: 15px;"></span>			
	Returnable Packaging Type	Reference of Packaging	Quantity	ORDER or RELEASE:
1		N/A		
2		N/A		
3		N/A		
4		N/A		
5		N/A		
6		N/A		
7		N/A		
8		N/A		
9		N/A		
10		N/A		
11		N/A		
12		N/A		
13		N/A		
14		N/A		
15		N/A		
16		N/A		
17		N/A		
18		N/A		
19		N/A		
20		N/A		
21		N/A		
22		N/A		
23		N/A		
24		N/A		
25		N/A		
26		N/A		
27		N/A		
28		N/A		
29		N/A		
30		N/A		
<b>PLEASE ENTER YELLOW FIELDS ONLY</b> In case of any question concerning the ordering procedure for returnable Packaging please refer to the Tenneco Supplier Packaging Manual. at: <a href="http://www.tasupplier.com">www.tasupplier.com</a>				

No. P06\_40\_7.4

### Attachment 3: Returnable Packaging Reconciliation Form



## RETURNABLE PACKAGING RECONCILIATION FORM

### Movements + Stock Complaining And Confirming

Tenneco Plant: \_\_\_\_\_

Date of the reconciliation: \_\_\_\_\_

Yearly stocktaking (Y/N): \_\_\_\_\_

Total page number: \_\_\_\_\_

Page number: \_\_\_\_\_

*Supplier Contact Address:*

Person: \_\_\_\_\_

Company: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Vendor Number: \_\_\_\_\_

*Tenneco Contact Address:*

Person: \_\_\_\_\_

cc: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email: \_\_\_\_\_

**Wrong Movements:**

NO.	Tenneco Packaging	Delivery Note Number:	Shipping Date:	Booking	Delivery	Difference	Ending balance/stoc	Comments:
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Compiled By: \_\_\_\_\_

\_\_\_\_\_
\_\_\_\_\_

Date                      Signature

The supplier has to inform the TENNECO Plant about wrong movements and confirm the stock within **two weeks**.

After this time horizon any complaining from supplier will NOT be accepted any more.

The supplier has to send the copy of the packaging delivery notes as evidence.


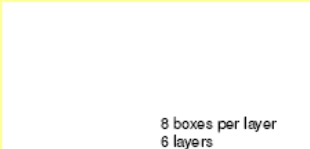
## Attachment 4: Returnable Packaging Catalogue Emission Control


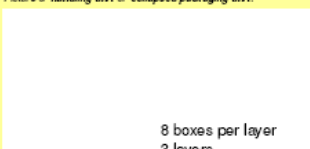



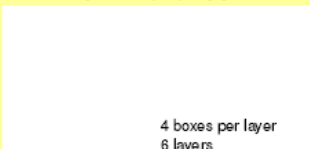
# Packaging Catalogue


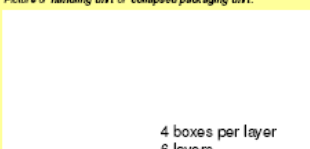
## -Emission Control Europe-







Type / Name	<b>KLT 4314</b>	
SAP No. / Tenneco Packaging Code:	5000456 / G03	
Overall dimensions (mm):	length: 400 mm width: 300 mm height: 147 mm	<i>Picture of Packaging Unit:</i> 
Internal dimensions (mm):	length: 334 mm width: 247 mm height: 90 mm	
Tare weight (kg):	2,00 kg	<i>Picture of handling unit or collapsed packaging unit:</i> 
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 6	
Owner:	TEN	8 boxes per layer 6 layers

Type / Name	<b>KLT 4328</b>	
Tenneco Packaging Code:	5000457 / G04	
Overall dimensions (mm):	length: 400 mm width: 300 mm height: 280 mm	<i>Picture of Packaging Unit:</i> 
Internal dimensions (mm):	length: 334 mm width: 347 mm height: 233 mm	
Tare weight (kg):	3,00 kg	<i>Picture of handling unit or collapsed packaging unit:</i> 
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 3	
Owner:	TEN	8 boxes per layer 3 layers



Type / Name	<b>KLT 6414</b>	
Tenneco Packaging Code:	5000458 / G05	
Overall dimensions (mm):	length: 600 mm width: 400 mm height: 147 mm	<i>Picture of Packaging Unit:</i> 
Internal dimensions (mm):	length: 532 mm width: 346 mm height: 133 mm	
Tare weight (kg):	4,00 kg	<i>Picture of handling unit or collapsed packaging unit:</i> 
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 6	
Owner:	TEN	4 boxes per layer 6 layers

Type / Name	<b>KLT 6147</b>	
Tenneco Packaging Code:	5000570 / A10	
Overall dimensions (mm):	length: 600 mm width: 400 mm height: 147 mm	<i>Picture of Packaging Unit:</i> 
Internal dimensions (mm):	length: 532 mm width: 346 mm height: 133 mm	
Tare weight (kg):	2,00 kg	<i>Picture of handling unit or collapsed packaging unit:</i> 
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 6	
Owner:	TEN	4 boxes per layer 6 layers

Type / Name	<b>KLT 6428</b>	Picture of Packaging Unit:
Tenneco Packaging Code:	5000459 / G06	
Overall dimensions (mm):	length: 600 mm width: 400 mm height: 280 mm	Picture of handling unit or collapsed packaging unit:
Internal dimensions (mm):	length: 532 mm width: 346 mm height: 231 mm	
Tare weight (kg):	4,00 kg	
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 3	4 boxes per layer 3 layers
Owner:	TEN	

Type / Name	<b>KLT 6421</b>	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 600 mm width: 400 mm height: 213 mm	Picture of handling unit or collapsed packaging unit:
Internal dimensions (mm):	length: 532 mm width: 346 mm height: 185 mm	
Tare weight (kg):	4,00 kg	
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: -	4 boxes per layer 4 Layers
Owner:		

**Runout - do not use for future business**

Type / Name	<b>KLT 4321</b>	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 400 mm width: 300 mm height: 213 mm	Picture of handling unit or collapsed packaging unit:
Internal dimensions (mm):	length: 335 mm width: 245 mm height: 185 mm	
Tare weight (kg):	2,07 kg	
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: -	8 boxes per layer 4 layers
Owner:		

**Runout - do not use for future business**

Type / Name	<b>GALIA 6422</b>	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 600 mm width: 400 mm height: 214 mm	Picture of handling unit or collapsed packaging unit:
Internal dimensions (mm):	length: 560 mm width: 362 mm height: 194 mm	
Tare weight (kg):	2,38 kg	
Max gross capacity (kg):	15,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 3	5 boxes per layer 3 Layers
Owner:		

**only for french market**

Type / Name		GALIA 6432		Picture of Packaging Unit:	
Tenneco Packaging Code:					
Overall dimensions (mm):		length:	600 mm		
		width:	400 mm		
		height:	314 mm	Picture of handling unit or collapsed packaging unit:	
Internal dimensions (mm):		length:	560 mm		
		width:	362 mm		
		height:	294 mm	<b>only for french market</b>	
Tare weight (kg):			2,96 kg		
Max gross capacity (kg):			15,00 kg		
Collapsible (yes / no):			no	5 boxes per layer 2 Layers	
Dimension of collapsed unit (mm):		length:	-		
		width:	-		
		height:	-		
Stacking factor:		collapsed:	-		
		build-up:	2		
Owner:					




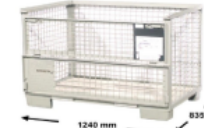
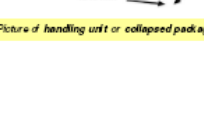

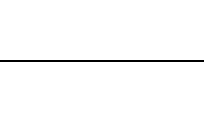

Type / Name	GALIA 4322			
Tenneco Packaging Code:				
Overall dimensions (mm):	length:	400 mm		
	width:	300 mm		
	height:	214 mm		
Internal dimensions (mm):	length:	362 mm		
	width:	263 mm		
	height:	194 mm		
Tare weight (kg):		1,44 kg		
Max gross capacity (kg):		15,00 kg		
Collapsible (yes / no):		no		
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	3		
Owner:				

*Picture of Packaging Unit:*

*Picture of handling unit or collapsed packaging unit:*




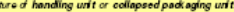


**only for french market**

10 boxes per layer  
3 layers

Type / Name	ES643105			Picture of Packaging Unit:
Tenneco Packaging Code:				
Overall dimensions (mm):	length:	590 mm		
	width:	390 mm		
	height:	325 mm		
Internal dimensions (mm):	length:	550 mm		
	width:	350 mm		
	height:	320 mm		
Tare weight (kg):		3,00 kg		
Max gross capacity (kg):		15,00 kg		
Collapsible (yes / no):		no		
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	5		
Owner:				

Runout - do not use for future business

XX boxes per layer  
X layers

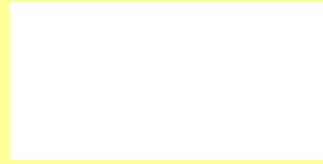
Type / Name	EUR Gitterbox			
Tenneco Packaging Code:	5000403 / GB1			
Overall dimensions (mm):	length:	1.240 mm		
	width:	835 mm		
	height:	966 mm		
Internal dimensions (mm):	length:	1.210 mm		
	width:	810 mm		
	height:	789 mm		
Tare weight (kg):		85,00 kg		
Max gross capacity (kg):		1.500,00 kg		
Collapsible (yes / no):		no		
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	5		
Owner:				

Type / Name	EUR Gitterbox collapsible	
Tenneco Packaging Code:	5000387 / AR1	
Overall dimensions (mm):	length:	1.240 mm
	width:	835 mm
	height:	966 mm
Internal dimensions (mm):	length:	1.210 mm
	width:	810 mm
	height:	789 mm
Tare weight (kg):	85,00 kg	
Max gross capacity (kg):	1.500,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	1.240 mm
	width:	835 mm
	height:	300 mm
Stacking factor:	collapsed:	
	build-up:	5
Owner:	TEN Arendal	

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



Type / Name	EUR Gitterbox half	
Tenneco Packaging Code:	5000461 / GB2	
Overall dimensions (mm):	length:	1.240 mm
	width:	835 mm
	height:	500 mm
Internal dimensions (mm):	length:	1.210 mm
	width:	810 mm
	height:	320 mm
Tare weight (kg):	52,00 kg	
Max gross capacity (kg):	700,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	-
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



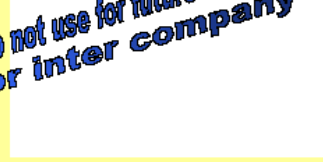
**only for inter company**

Type / Name	EUR Gitterbox quarter	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.240 mm
	width:	835 mm
	height:	235 mm
Internal dimensions (mm):	length:	1.210 mm
	width:	810 mm
	height:	225 mm
Tare weight (kg):	43,50 kg	
Max gross capacity (kg):	700,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	-
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



**Runout - do not use for future business  
only for inter company**

Type / Name	Box WF	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.000 mm
	width:	1.000 mm
	height:	1.000 mm
Internal dimensions (mm):	length:	950 mm
	width:	950 mm
	height:	800 mm
Tare weight (kg):	80,00 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	3
Owner:		




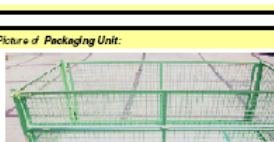
Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



**Runout - do not use for future business**

Type / Name	Fonos Stillage			
Tenneco Packaging Code:				
Overall dimensions (mm):	length:	1.900 mm		
	width:	1.050 mm		
	height:	1.150 mm		
Internal dimensions (mm):	length:			
	width:			
	height:			
Tare weight (kg):	120,00 kg			
Max gross capacity (kg):				
Collapsible (yes / no):	no			
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:			
Owner:				

Picture of Packaging Unit:

Picture of handling unit or collapsed packaging unit:

**Runout - do not use for future business**

Runout - do not use for future business

Type / Name	Gillet Rack			
Tenneco Packaging Code:	5000404 / G08			
Overall dimensions (mm):	length:	2.180 mm		
	width:	1.030 mm		
	height:	1.050 mm		
Internal dimensions (mm):	length:	2.000 mm		
	width:	950 mm		
	height:	970 mm		
Tare weight (kg):	155,00 kg			
Max gross capacity (kg):	1.500,00 kg			
Collapsible (yes / no):	no			
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	3		
Owner:	Tenneco			

Picture of Packaging Unit:

Picture of handling unit or collapsed packaging unit:

**only for Inter-Company**

only for Inter-Company



Type / Name	Gillet Rack 2038			
Tenneco Packaging Code:	5000906 / G16			
Overall dimensions (mm):	length:	2.400 mm		
	width:	1.200 mm		
	height:	1.000 mm		
Internal dimensions (mm):	length:	2.350 mm		
	width:	1.150 mm		
	height:	950 mm		
Tare weight (kg):	225,00 kg			
Max gross capacity (kg):	2.000,00 kg			
Collapsible (yes / no):	yes			
Dimension of collapsed unit (mm):	length:	2.400 mm		
	width:	1.100 mm		
	height:	400 mm		
Stacking factor:	collapsed:	6		
	build-up:	3		
Owner:	Tenneco			

Picture of Packaging Unit:

Picture of handling unit or collapsed packaging unit:

**Standard for this length**

Standard for this length

Type / Name	RSE01A			
Tenneco Packaging Code:	5000405 / G09			
Overall dimensions (mm):	length:	2.200 mm		
	width:	1.200 mm		
	height:	1.000 mm		
Internal dimensions (mm):	length:	2.050 mm		
	width:	1.120 mm		
	height:	700 mm		
Tare weight (kg):	224,00 kg			
Max gross capacity (kg):	2.000,00 kg			
Collapsible (yes / no):	no			
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	3		
Owner:				

Type / Name	<b>RSE Rack</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.400 mm
	width:	1.200 mm
	height:	1.000 mm
Internal dimensions (mm):	length:	2.370 mm
	width:	1.180 mm
	height:	855 mm
Tare weight (kg):	160,00 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	
	width:	
	height:	
Stacking factor:	collapsed:	8
	build-up:	4
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



Type / Name	<b>Rack WIM</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.100 mm
	width:	1.050 mm
	height:	990 mm
Internal dimensions (mm):	length:	2.020 mm
	width:	960 mm
	height:	740 mm
Tare weight (kg):	145,00 kg	
Max gross capacity (kg):	600,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	2.100 mm
	width:	1.050 mm
	height:	410 mm
Stacking factor:	collapsed:	6
	build-up:	2
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



Runout - do not use for future business

Type / Name	<b>Rack SLS</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.900 mm
	width:	1.200 mm
	height:	1.020 mm
Internal dimensions (mm):	length:	2.820 mm
	width:	1.140 mm
	height:	800 mm
Tare weight (kg):	207,00 kg	
Max gross capacity (kg):	500,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	2.900 mm
	width:	1.200 mm
	height:	350 mm
Stacking factor:	collapsed:	6
	build-up:	2
Owner:	Tenneco	

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



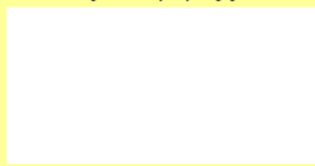
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Type / Name	<b>Euro Stillage</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	980 mm
Internal dimensions (mm):	length:	2.050 mm
	width:	910 mm
	height:	700 mm
Tare weight (kg):	145,00 kg	
Max gross capacity (kg):	800,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	4
Owner:	Tenneco	

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



Type / Name	Euro Stillage collapsible	
Tenneco Packaging Code:	5000506 / WA2	
Overall dimensions (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	980 mm
Internal dimensions (mm):	length:	2.050 mm
	width:	910 mm
	height:	700 mm
Tare weight (kg):	145,00 kg	
Max gross capacity (kg):	800,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	410 mm
Stacking factor:	collapsed:	6
	build-up:	3
Owner:	Tenneco	

Picture of Packaging Unit:



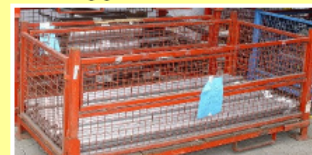
Picture of handling unit or collapsed packaging unit:



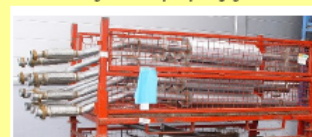
Standard for this lenght

Type / Name	Euro Stillage red	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	980 mm
Internal dimensions (mm):	length:	2.050 mm
	width:	910 mm
	height:	700 mm
Tare weight (kg):	145,00 kg	
Max gross capacity (kg):	800,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	410 mm
Stacking factor:	collapsed:	6
	build-up:	3
Owner:	Tenneco	

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



For excess lenght: short side is collapsible on list own

Type / Name	Orange Box	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	2.200 mm
	width:	1.100 mm
	height:	980 mm
Internal dimensions (mm):	length:	2.050 mm
	width:	980 mm
	height:	800 mm
Tare weight (kg):		
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	3
Owner:	Tenneco Rybnik	

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



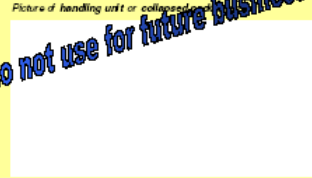
Runout - do not use for future business

Type / Name	Orange Box big	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	3.200 mm
	width:	1.100 mm
	height:	980 mm
Internal dimensions (mm):	length:	3.050 mm
	width:	980 mm
	height:	800 mm
Tare weight (kg):		
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length:	-
	width:	-
	height:	-
Stacking factor:	collapsed:	-
	build-up:	3
Owner:	Tenneco Rybnik	

Picture of Packaging Unit:




Picture of handling unit or collapsed packaging unit:



Runout - do not use for future business

Type / Name	SPC0121	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 2.310 mm width: 1.110 mm height: 1.120 mm	
Internal dimensions (mm):	length: 2.290 mm width: 1.080 mm height: 960 mm	Picture of handling unit or collapsed unit:
Tare weight (kg):	205,50 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 4	
Owner:	Tenneco	

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Type / Name	Scandinavian short	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 1.750 mm width: 1.150 mm height: 1.150 mm	
Internal dimensions (mm):	length: 1.700 mm width: 1.100 mm height: 1.000 mm	
Tare weight (kg):	110,00 kg	
Max gross capacity (kg):	1.500,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length: 1.750 mm width: 1.150 mm height: 350 mm	Picture of handling unit or collapsed unit:
Stacking factor:	collapsed: 8 build-up: 3	
Owner:		

Runout - do not use for future business

Type / Name	Scandinavian blue	Picture of Packaging Unit:
Tenneco Packaging Code:	5001276	
Overall dimensions (mm):	length: 1.750 mm width: 1.140 mm height: 1.200 mm	
Internal dimensions (mm):	length: 1.680 mm width: 1.060 mm height: 880 mm	Picture of handling unit or collapsed unit:
Tare weight (kg):	130,00 kg	
Max gross capacity (kg):	1.500,00 kg	
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 3	
Owner:		

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Type / Name	Scandinavian long	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 2.400 mm width: 1.150 mm height: 1.150 mm	
Internal dimensions (mm):	length: 2.350 mm width: 1.100 mm height: 1.000 mm	
Tare weight (kg):	145,00 kg	
Max gross capacity (kg):	1.500,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length: 2.400 mm width: 1.150 mm height: 350 mm	Picture of handling unit or collapsed unit:
Stacking factor:	collapsed: 8 build-up: 3	
Owner:	Tenneco	

Runout - do not use for future business

<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> length: 2.000 mm width: 1.000 mm height: 1.170 mm <b>Internal dimensions (mm):</b> length: 1.950 mm width: 950 mm height: 1.000 mm <b>Tare weight (kg):</b> Max gross capacity (kg): 1.000,00 kg Collapsible (yes / no): yes <b>Dimension of collapsed unit (mm):</b> length: 2.000 mm width: 1.000 mm height: 250 mm <b>Stacking factor:</b> collapsed: 5 build-up: 2 <b>Owner:</b>		<b>Long Lydex</b> 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> length: 1.200 mm width: 800 mm height: 144 mm <b>Internal dimensions (mm):</b> length: - width: - height: - <b>Tare weight (kg):</b> Max gross capacity (kg): 25,00 kg Collapsible (yes / no): no <b>Dimension of collapsed unit (mm):</b> length: - width: - height: - <b>Stacking factor:</b> collapsed: - build-up: - <b>Owner:</b>		<b>Euro Pallet</b> 5000460 / EU1 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> length: 1.200 mm width: 800 mm height: 200 mm <b>Internal dimensions (mm):</b> length: 1.180 mm width: 780 mm height: 200 mm <b>Tare weight (kg):</b> Max gross capacity (kg): Collapsible (yes / no): yes <b>Dimension of collapsed unit (mm):</b> length: 2.000 mm width: 200 mm height: 50 mm <b>Stacking factor:</b> collapsed: build-up: <b>Owner:</b>		<b>Wooden frame</b> 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> length: 1.210 mm width: 1.020 mm height: 730 mm <b>Internal dimensions (mm):</b> length: 1.200 mm width: 700 mm height: 790 mm <b>Tare weight (kg):</b> Max gross capacity (kg): 46,00 kg Collapsible (yes / no): yes <b>Dimension of collapsed unit (mm):</b> length: 1.500,00 kg width: height: <b>Stacking factor:</b> collapsed: 10 build-up: <b>Owner:</b>		<b>Green wooden box</b> 

Type / Name	<b>Rack 00</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.065 mm
	width:	860 mm
	height:	700 mm
Internal dimensions (mm):	length:	900 mm
	width:	700 mm
	height:	600 mm
Tare weight (kg):		
Max gross capacity (kg):	500,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	1.065 mm
	width:	860 mm
	height:	230 mm
Stacking factor:	collapsed:	10
	build-up:	4
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



Type / Name	<b>Rack P12</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.200 mm
	width:	800 mm
	height:	500 mm
Internal dimensions (mm):	length:	1.100 mm
	width:	750 mm
	height:	400 mm
Tare weight (kg):		
Max gross capacity (kg):	50,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	1.200 mm
	width:	800 mm
	height:	310 mm
Stacking factor:	collapsed:	10
	build-up:	6
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



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Type / Name	<b>Rack PP</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.200 mm
	width:	800 mm
	height:	970 mm
Internal dimensions (mm):	length:	1.150 mm
	width:	750 mm
	height:	900 mm
Tare weight (kg):		
Max gross capacity (kg):	54,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	1.200 mm
	width:	800 mm
	height:	300 mm
Stacking factor:	collapsed:	5
	build-up:	3
Owner:		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



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Type / Name	<b>Rack FG</b>	
Tenneco Packaging Code:		
Overall dimensions (mm):	length:	1.200 mm
	width:	1.200 mm
	height:	810 mm
Internal dimensions (mm):	length:	1.150 mm
	width:	1.150 mm
	height:	790 mm
Tare weight (kg):		
Max gross capacity (kg):	30,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length:	1.200 mm
	width:	1.200 mm
	height:	340 mm
Stacking factor:	collapsed:	6
	build-up:	3
Owner:		









Picture of Packaging Unit:





Picture of handling unit or collapsed packaging unit:



*only for Inter-Company*

<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> <b>Internal dimensions (mm):</b> <b>Tare weight (kg):</b> <b>Max gross capacity (kg):</b> <b>Collapsible (yes / no):</b> <b>Dimension of collapsed unit (mm):</b> <b>Stacking factor:</b> <b>Owner:</b>		<b>Rack WP</b> length: 1.200 mm width: 1.100 mm height: 1.000 mm length: 970 mm width: 950 mm height: 750 mm 85,00 kg yes length: 1.200 mm width: 1.100 mm height: 400 mm collapsed: 6 build-up: 3	<b>Picture of Packaging Unit:</b>  <b>Picture of handling unit or collapsed packaging unit:</b> 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> <b>Internal dimensions (mm):</b> <b>Tare weight (kg):</b> <b>Max gross capacity (kg):</b> <b>Collapsible (yes / no):</b> <b>Dimension of collapsed unit (mm):</b> <b>Stacking factor:</b> <b>Owner:</b>		<b>small support case</b> length: 760 mm width: 770 mm height: 450 mm length: 590 mm width: 560 mm height: 300 mm 16,50 kg yes length: 790 mm width: 710 mm height: 710 mm collapsed: 0 build-up: 0	<b>Picture of Packaging Unit:</b>  <b>Picture of handling unit or collapsed packaging unit:</b> 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> <b>Internal dimensions (mm):</b> <b>Tare weight (kg):</b> <b>Max gross capacity (kg):</b> <b>Collapsible (yes / no):</b> <b>Dimension of collapsed unit (mm):</b> <b>Stacking factor:</b> <b>Owner:</b>		<b>big support case</b> length: 790 mm width: 710 mm height: 450 mm length: 660 mm width: 590 mm height: 300 mm 31,00 kg yes length: 790 mm width: 710 mm height: 710 mm collapsed: 0 build-up: 0	<b>Picture of Packaging Unit:</b>  <b>Picture of handling unit or collapsed packaging unit:</b> 
<b>Type / Name</b> <b>Tenneco Packaging Code:</b> <b>Overall dimensions (mm):</b> <b>Internal dimensions (mm):</b> <b>Tare weight (kg):</b> <b>Max gross capacity (kg):</b> <b>Collapsible (yes / no):</b> <b>Dimension of collapsed unit (mm):</b> <b>Stacking factor:</b> <b>Owner:</b>		<b>GAZ 1</b> 5000409 / GA1 length: 1.240 mm width: 840 mm height: 670 mm 81,00 kg no length: - width: - height: - collapsed: - build-up: 3	<b>Picture of Packaging Unit:</b>  <b>Picture of handling unit or collapsed packaging unit:</b> 

Type / Name	FLO9720	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 1.200 mm width: 1.000 mm height: 1.050 mm	
Internal dimensions (mm):	length: 1.100 mm width: 900 mm height: 880 mm	
Tare weight (kg):	76,00 kg	
Max gross capacity (kg):	750,00 kg	
Collapsible (yes / no):	yes	
Dimension of collapsed unit (mm):	length: 1.200 mm width: 1.000 mm height: 360 mm	
Stacking factor:	collapsed: 8 build-up: 3	
Owner:	Tenneco Rybnik	





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Type / Name	SPC0111	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 1.120 mm width: 750 mm height: 1.000 mm	
Internal dimensions (mm):	length: 1.090 mm width: 730 mm height: 870 mm	
Tare weight (kg):	66,60 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 4	
Owner:	Tenneco Togliatti	

*only for russian market*

Type / Name	SPC0130	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 1.110 mm width: 750 mm height: 1.000 mm	
Internal dimensions (mm):	length: 1.090 mm width: 730 mm height: 870 mm	
Tare weight (kg):	66,60 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: 4	
Owner:	Tenneco Togliatti	

*only for russian market*

Type / Name	SPC0140	Picture of Packaging Unit:
Tenneco Packaging Code:		
Overall dimensions (mm):	length: 1.110 mm width: 920 mm height: 1.130 mm	
Internal dimensions (mm):	length: 1.090 mm width: 880 mm height: 1.000 mm	
Tare weight (kg):	77,00 kg	
Max gross capacity (kg):		
Collapsible (yes / no):	no	
Dimension of collapsed unit (mm):	length: - width: - height: -	
Stacking factor:	collapsed: - build-up: -	
Owner:	Tenneco Togliatti	

*only for russian market*

Type / Name	SPC0150			
Tenneco Packaging Code:				
Overall dimensions (mm):	length:	1.110 mm		<i>only for russian market</i>
	width:	920 mm		
	height:	1.030 mm		
Internal dimensions (mm):	length:	1.090 mm		
	width:	880 mm		
	height:	900 mm		
Tare weight (kg):		77,50 kg		
Max gross capacity (kg):				
Collapsible (yes / no):		no		
Dimension of collapsed unit (mm):	length:	-		
	width:	-		
	height:	-		
Stacking factor:	collapsed:	-		
	build-up:	4		
Owner:	Tenneco Togliatti			

## Data sheet European sea freight standard packaging



Export pallet		Stackability
Outer dim.(mm)	1140x955x140	
Weight/ kg	15,00	Cross weight is up to 15 Kg per carto
Guidelines	IPPC Standard	
<b>Export carton small</b>		8 carton per layer 3 layers high
Outer dim.(mm)	470x280x280	
Inner dim.(mm)	460x270x270	
Weight/ kg	0,60	
Fefco-Code	711	
Quality /Thickness	EB-Strongness	
Material	Doublewall	
<b>Loading unit</b>	40 feet container:	48 units
	20 feet container:	24 units

If no other specific packaging was agreed you have to use our standard sea freight packaging

### Quality and packaging specification:

To protect the parts against corrosion you have to line the carton with a VCI foil

If necessary protect the parts with a carton insert between the layers.



Dim.:  
600x350x600  
100 µ

## Data sheet European sea freight standard packaging



Export pallet		Stackability
Outer dim.(mm)	1140x955x140	max. weight is up to 500 Kg
Weight/ kg	15,00	
Guidelines	IPPC Standard	
Export carton		Drawing on each side of the carton
Outer dim.(mm)	1125x955x960	
Inner dim.(mm)	1095x925x910	
Weight/ kg	12,80	
Fefco-Code	0201 Palb.	
Quality /Thickness kN/m)	292 BAL 16,3	
Burst ratio ( in kPa)	3180	
Grammage (in g/m²)	1565	
Loading unit		
	40 feet container:	48 cartons
	20 feet container:	24 cartons

If no other specific packaging was agreed you have to use our standard sea freight packaging

### Quality and packaging specification:

To protect the parts against corrosion you have to line the carton with a VCI foil

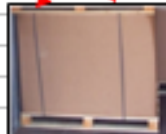
If necessary protect the parts with a carton insert between the layers.

Removable on one side for a better feeding.



Dim.:  
1550x1230x1800 mm  
100 µ

For the carton protection you must strapping the carton 2 times with a plastic band



## ***Attachment 5: Returnable Packaging Catalogue Ride Control***



# **Packaging Catalogue**

**-Ride Control Europe-**

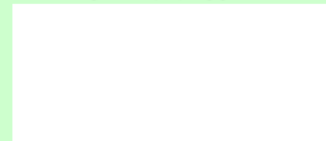


<b>Type / Name</b>		<b>Euro Pallet</b>
<b>Tenneco Packaging Code:</b>		EU 1
<b>Overall dimensions (mm):</b>	length:	1.200 mm
	width:	800 mm
	height:	144 mm
<b>Internal dimensions (mm):</b>	length:	-
	width:	-
	height:	-
<b>Tare weight (kg):</b>		25,00 kg
<b>Max gross capacity (kg):</b>		1.000,00 kg
<b>Collapsible (yes / no):</b>		no
<b>Dimension of collapsed unit (mm):</b>	length:	-
	width:	-
	height:	-
<b>Stacking factor:</b>	collapsed:	-
	build-up:	-
<b>Owner:</b>		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



<b>Type / Name</b>		<b>Wooden frame</b>
<b>Tenneco Packaging Code:</b>		
<b>Overall dimensions (mm):</b>	length:	1.200 mm
	width:	800 mm
	height:	200 mm
<b>Internal dimensions (mm):</b>	length:	1.180 mm
	width:	780 mm
	height:	200 mm
<b>Tare weight (kg):</b>		
<b>Max gross capacity (kg):</b>		yes
<b>Collapsible (yes / no):</b>		yes
<b>Dimension of collapsed unit (mm):</b>	length:	2.000 mm
	width:	200 mm
	height:	50 mm
<b>Stacking factor:</b>	collapsed:	-
	build-up:	-
<b>Owner:</b>		

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



<b>Type / Name</b>		<b>Cover for Wooden Frame</b>
<b>Tenneco Packaging Code:</b>		
<b>Overall dimensions (mm):</b>	length:	1.195 mm
	width:	795 mm
	height:	18 mm
<b>Internal dimensions (mm):</b>	length:	-
	width:	-
	height:	-
<b>Tare weight (kg):</b>		5 kg
<b>Max gross capacity (kg):</b>		-
<b>Collapsible (yes / no):</b>		No
<b>Dimension of collapsed unit (mm):</b>	length:	-
	width:	-
	height:	-
<b>Stacking factor:</b>	collapsed:	-
	build-up:	-
<b>Owner:</b>		Tenneco

Picture of Packaging Unit:



Picture of handling unit or collapsed packaging unit:



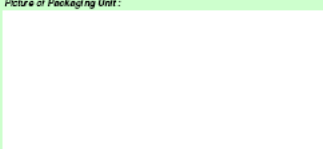

<b>Type / Name</b>		<b>SC 3218 collapsible</b>
<b>Tenneco Packaging Code:</b>		
<b>Overall dimensions (mm):</b>	length:	290 mm
	width:	190 mm
	height:	180 mm
<b>Internal dimensions (mm):</b>	length:	260 mm
	width:	165 mm
	height:	170 mm
<b>Tare weight (kg):</b>		1,40 kg
<b>Max gross capacity (kg):</b>		15,00 kg
<b>Collapsible (yes / no):</b>		Yes
<b>Dimension of collapsed unit (mm):</b>	length:	290 mm
	width:	190 mm
	height:	55 mm
<b>Stacking factor:</b>	collapsed:	-
	build-up:	-
<b>Owner:</b>		Tenneco


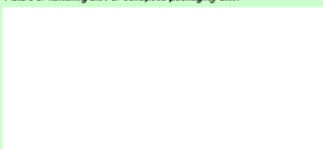
Picture of Packaging Unit:







Picture of handling unit or collapsed packaging unit:



<b>Type / Name</b>		<b>SC 6407</b>	<b>Picture of Packaging Unit:</b> 
<b>Tenneco Packaging Code:</b>			
<b>Overall dimensions (mm):</b>	length:	600 mm	<b>Picture of handling unit or collapsed packaging unit:</b> 
	width:	400 mm	
	height:	70 mm	
<b>Internal dimensions (mm):</b>	length:	560 mm	
	width:	360 mm	
	height:	60 mm	
<b>Tare weight (kg):</b>		1,00 kg	
<b>Max gross capacity (kg):</b>		15,00 kg	
<b>Collapsible (yes / no):</b>		no	
<b>Dimension of collapsed unit (mm):</b>	length:	-	
	width:	-	
	height:	-	
<b>Stacking factor:</b>	collapsed:	-	
	build-up:	-	
<b>Owner:</b>		Tenneco	


<b>Type / Name</b>		<b>Bibox</b>	<b>Picture of Packaging Unit:</b> 
<b>Tenneco Packaging Code:</b>			
<b>Overall dimensions (mm):</b>	length:	1.200 mm	<b>Picture of handling unit or collapsed packaging unit:</b> 
	width:	800 mm	
	height:	760 mm	
<b>Internal dimensions (mm):</b>	length:	1.100 mm	
	width:	710 mm	
	height:	610 mm	
<b>Tare weight (kg):</b>		34,50 kg	
<b>Max gross capacity (kg):</b>		500,00 kg	
<b>Collapsible (yes / no):</b>		No	
<b>Dimension of collapsed unit (mm):</b>	length:	-	
	width:	-	
	height:	-	
<b>Stacking factor:</b>	collapsed:	-	
	build-up:	-	
<b>Owner:</b>		Tenneco	

<b>Type / Name</b>		<b>SC 7102</b>	<b>Picture of Packaging Unit:</b> 
<b>Tenneco Packaging Code:</b>			
<b>Overall dimensions (mm):</b>	length:	1.200 mm	<b>Picture of handling unit or collapsed packaging unit:</b> 
	width:	800 mm	
	height:	600 mm	
<b>Internal dimensions (mm):</b>	length:	1.160 mm	
	width:	760 mm	
	height:	400 mm	
<b>Tare weight (kg):</b>		80,00 kg	
<b>Max gross capacity (kg):</b>		900 kg	
<b>Collapsible (yes / no):</b>		No	
<b>Dimension of collapsed unit (mm):</b>	length:	-	
	width:	-	
	height:	-	
<b>Stacking factor:</b>	collapsed:	-	
	build-up:	4	
<b>Owner:</b>		Tenneco	

<b>Type / Name</b>		<b>SC 7101</b>	<b>Picture of Packaging Unit:</b> 
<b>Tenneco Packaging Code:</b>			
<b>Overall dimensions (mm):</b>	length:	800 mm	<b>Picture of handling unit or collapsed packaging unit:</b> 
	width:	600 mm	
	height:	600 mm	
<b>Internal dimensions (mm):</b>	length:	760 mm	
	width:	560 mm	
	height:	420 mm	
<b>Tare weight (kg):</b>		40,00 kg	
<b>Max gross capacity (kg):</b>		600 kg	
<b>Collapsible (yes / no):</b>		No	
<b>Dimension of collapsed unit (mm):</b>	length:	-	
	width:	-	
	height:	-	
<b>Stacking factor:</b>	collapsed:	-	
	build-up:	3	
<b>Owner:</b>		Tenneco	



8 carton per layer  
3 layers high

A 3D diagram of a cube divided into smaller rectangular sections. The top face is labeled '8 carton per layer' and the height is labeled '3 layers high'. A red arrow points from the text to the top face of the cube. The cube is divided into 8 columns, 3 rows, and 3 layers, totaling 72 smaller rectangular sections.

**If no other specific packaging was agreed you have to use our standard sea freight packaging**

To protect the parts against corrosion you have to line the carton with a VCI foil



Dim.:
600x350x600
100 µ

## Data sheet European sea freight standard packaging



Export pallet		Stackability
Outer dim.(mm)	1140x955x140	
Weight/ kg	15,00	max. weight is up to 500 Kg
Guidelines	IPPC Standard	
		Drawing on each side of the carton
Export carton		
Outer dim.(mm)	1125x955x960	
Inner dim.(mm)	1095x925x910	
Weight/ kg	12,80	
Fefco-Code	0201 Palb.	
Quality /Thickness kN/m)	292 BAL 16,3	
Burst ratio ( in kPa)	3180	
Grammage (in g/m <sup>2</sup> )	1565	
Loading unit	40 feet container:	48 cartons
	20 feet container:	24 cartons



If no other specific packaging was agreed you have to use our standard sea freight packaging

### Quality and packaging specification:

To protect the parts against corrosion you have to line the carton with a VCI foil

If necessary protect the parts with a carton insert between the layers.

Removable on one side for a better feeding.



Dim.:  
1550x1230x1800 mm  
100 µ

For the carton protection you must strapping the carton 2 times with a plastic band



## Attachment 6: Tenneco Transport Label requirements


### TRANSPORT LABEL DATA DESCRIPTION

Transport Labels are made of 2 sections: Shipping and Part identification section.

#### A- Shipping section

**The shipping section is mandatory on all shipping units.**

#### ODETTE

RECEIVER Tredegar Tredegar NP22 3AA UNITED KINGDOM	DOCK/GATE		
ADVICE NOTE No (N) 266 	SUPPLIER ADDR Bovenden GERMANY		
	NET WEIGHT (KG) 10,45	GROSS WEIGHT (KG) 50,45	NO OF BOXES 1

#### VDA

(1) Warenempfänger Edenkoben 67480 Edenkoben GERMANY	(2) Abladeef./Lagerort/Verwendungeschl.		
(3) Lieferschein-Nr. (N) 844 	(4) Lieferanten-Adresse (Kurzname, PLZ, Ort) AK Steel BV Holland Oosterhout		
	(5) Gewicht Netto 99,4	(6) Gewicht Brutto 107,4	(7) Anzahl Packstücke 1

#### ➤ Receiver Area

It is the Destination Name and address as designated by Tenneco  
Use Human readable (HR) characters only.

#### ➤ Dock and Gate

Final destination point: Name and place to which the goods are to be finally delivered. As indicated by Tenneco – if no specific indication, leave blank.  
Use HR chars only.

➤ **Document Number**

This information is mandatory for all shipment made to Tenneco: it must be the Delivery Note / Advance shipping notification number.

**This is the document number appearing on your shipping document – this number is also to be used when providing Tenneco with electronic ASN via EDI (EDIFACT DESADV) or WEB EDI (SupplyWEB). This reference must be UNIQUE.**

HR chars are printed ABOVE the bar code.

➤ **Supplier Address**

Name and shipping address of supplier, country of origin as designated by the supplier.

Use HR chars only.

➤ **Net Weight**

Weight of the goods in (kg) or (lb) EXCLUDING transport packaging.

IF VDA is used, only KG is allowed- the Unit of measurement is not printed.

IF ODETTE is used, the unit of measurement must be printed in the title of the field in brackets.

Ex: Net WT (KG)

➤ **Gross Weight**

Weight of goods in (kg) or (lb) INCLUDING transport .

Same rules than for the Net Weight.






➤ **Number of Boxes**

Number of boxes/packaging on the transport unit.





**B- Part Identification section**

**The part identification section is made of 2 areas**

**ODETTE**

PART NUMBER (P) <b>249532</b> 	
QUANTITY (Q) <b>2200</b> 	DESCRIPTION silmat die cutting
SUPPLIER (V) <b>271</b> 	SUPPLIER PART NO (30S) <b>17930045</b> 
SERIAL (M) <b>TR10000025</b> 	DATE <b>110202</b> ENG CHANGE
	BATCH NO (H)

**VDA**

(8) Sach-Nr. Kunde (P) <b>273206</b> 	
(9) Füllmenge (Q) <b>100 KG</b> 	(10) Bezeichnung Lieferant, Leistung COIL 0,5 x 490
(12) Lieferanten-Nr. (V) <b>845</b> 	(11) Packmittel-Nr. Kunde (B) <b>6 - Container (</b> 
	(13) Vers.-Datum <b>01.02.2011</b> (14) Änderungsstand

## BAR CODE AREA

**Is Mandatory except for mixed load Label where part number and quantity are not used.**  
**ALL FIELDS ARE TO BE BAR CODED.**

### ➤ Part Number

Part number as designated by Tenneco for the product in the package.  
HR char. must be printed ABOVE the bar code.

### ➤ Quantity

Quantity in the package.  
HR chars must be printed ABOVE the bar code.

*Caution:* when unit of measure equal PC, no notation is required. If UOM is different from PC, it must be noted in HR form ONLY (ex: kg, pairs, meters...)  
When used, the UOM must be directly to the right of the HR. quantity. UOM must NOT be bar coded.

### ➤ Supplier

**Supplier Number AT Tenneco.**  
HR chars must be printed ABOVE the bar code.

### ➤ Serial Number

Serial number must be unique: it is assigned by the supplier who must avoid repeating serial number **within at least two years.**  
HR chars must be printed ABOVE the bar code.

## SPECIAL DATA AREA

### ➤ Description

Mandatory plain language description of article or product as designated by Tenneco.

➤ **Logistic reference**

**ODETTE :**

**On Tenneco facility request, specify the Tenneco order number  
(Purchase order /scheduling agreement number)**

**If not specified, the standard supplier reference for the part is to be used.**

**VDA :**

The PACKAGING reference number as specified by Tenneco.

HR char. must be printed ABOVE the bar code.

➤ **Date**

Date of dispatch. Format **YYMMDD**.

➤ **Engineering change**

Tenneco to specify if engineering changes agreed with supplier is to be printed here. Otherwise, leave blank.

Use HR chars only.

➤ **Batch Number**

Tenneco to specify if engineering changes agreed with supplier is to be printed here. Otherwise, leave blank

Bar code can be used but the use HR chars only is accepted.

➤ **Indicator-Optional**

Where bar code length permits, area may be used for quality assured 'AQP' sign or VSP symbol (to be defined by buyer or according to national regulation)

Mark may be printed or applied as stickers.

## RULES SUMMARY

Tenneco requires the use of Bar coded labels for all inbound materials identifying part number/quantity etc...on all packaging unit. Supplier needs to understand this is NOT optional.

### ➤ **Fields**

The use of non-mandatory field/data items within the shipping section and special data area is to be agreed between Tenneco, the supplier and buyer.

No alternative data other than the one specified are permitted

Where data are not used they must be left BLANK

Non significant zero or blank must be suppressed when bar code are printed.

### ➤ **Printing**

Bar codes are left justified.

Exception when carried on holder, they can be centralized to provide the minimum quiet zone essential to successful scanning (assuming the number of characters is less than the maximum specified)

### ➤ **Paper**

The label paper must be white with black printing with a minimum print contrast 75 (PCS=75).

It can be printed on a A4.

The label must be durable enough to ensure readability at its destination : it is recommended that the label paper is 160-170g/m2 and weather resistant

### ➤ **Bar codes**

**They must be of the 3-of-9 (code 39) type.**

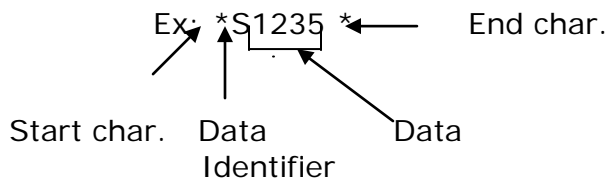
## QUALITY INSURANCE REQUIREMENTS

It is the responsibility of the supplier to provide Bar coded labels that meet specifications.

## DATA Identifier

Format of each element of a bar code is:

Starter character + Data Identifier + Data + End Character



Available Data Identifier:

- P** = Part number
- Q** = Quantity
- V** = Supplier
- S/M/G** = Unique Serial Number (letter depends on Label type-Detail (S), Master (M) or Mixed (G))
- K** = Buyer Order number
- B** = Packaging reference number
- H** = Batch number
- N** = Advice note number
- 30S** = Supplier part reference number

## LABELS EXAMPLE

### ODETTE STANDARD LABEL

RECEIVER Tredegar Tredegar NP22 3AA UNITED KINGDOM		DOCK/GATE	
ADVICE NOTE No (N) <b>269</b> 		SUPPLIER ADDR Bovenden GERMANY	
		NET WEIGHT (KG) <b>10,45</b>	GROSS WEIGHT (KG) <b>50,45</b>
		NO OF BOXES <b>1</b>	
PART NUMBER (P) <b>249532</b> 			
QUANTITY (Q) <b>550</b> 		DESCRIPTION silmat die cutting	
		ORDER NO (K) <b>5500019562</b> 	
SUPPLIER (V) <b>271</b> 		DATE <b>110202</b>	
		ENG CHANGE	
SERIAL (S) <b>TR10000021</b> 		BATCH NO (H)	

### ODETTE MASTER LABEL

RECEIVER Tredegar Tredegar NP22 3AA UNITED KINGDOM		DOCK/GATE	
ADVICE NOTE No (N) <b>269</b> 		SUPPLIER ADDR Bovenden GERMANY	
		NET WEIGHT (KG) <b>41,8</b>	GROSS WEIGHT (KG) <b>222,8</b>
		NO OF BOXES <b>4</b>	
PART NUMBER (P) <b>249532</b> 			
QUANTITY (Q) <b>2200</b> 		DESCRIPTION silmat die cutting	
		SUPPLIER PART NO (305) <b>17930045</b> 	
SUPPLIER (V) <b>271</b> 		DATE <b>110202</b>	
		ENG CHANGE	
SERIAL (M) <b>TR10000025</b> 		BATCH NO (H)	

# VDA

(1) Warenempfänger Edenkoben 67480 Edenkoben GERMANY		(2) Abladeort/Lagerort/Verwendungsschl.	
(3) Lieferschein-Nr. (N) <b>844</b> 		(4) Lieferanten-Adresse (Kurzname, PLZ, Ort) AK Steel BV Holland Oosterhout	
		(5) Gewicht Netto 99,4	(6) Gewicht Brutto 107,4
		(7) Anzahl Packstücke 1	
(8) Sach-Nr. Kunde (P) <b>273206</b> 			
(9) Füllmenge (Q) <b>100 KG</b> 		(10) Bezeichnung Lieferant, Leistung COIL 0,5 x 490	
		(11) Packmittel-Nr. Kunde (B) 6 - Container ( 	
(12) Lieferanten-Nr. (V) 845 		(13) Vers.-Datum 01.02.2011	
		(14) Änderungsstand	
(15) Packstück-Nr. (S) <b>EDE0000205</b> 		(16) Chargen-Nr. (H)	

Warenanhänger VDA4902 Version 4

## **Attachment 7: SupplyWEB Labelling process**

### **SET UP PROCESS**

<b>SupplyWEB – Packaging and Labelling SET UP Process</b>	<b>Person Responsible</b>	<b>Check</b>
Supplier selected is informed of his nomination to start Labelling in SupplyWEB OR Supplier interested by using SupplyWEB Labels gets in contact with Tenneco to request approval for set up.	EU Logistics/NA Plant Materials/Supplier	
On Approval, review and agree each part packaging qty and packaging type. Inform supplier of the Label type (Detail/Master/Mix) and template (VDA, VDA-PO, ODETTE, ODETTE-PO, X12) required.	EU Logistics/NA Plant Materials/Supplier	
Send Supplier's list of part and packaging qty including container description to Corp. Logistic group for Container and Packaging Template assignment.	EU Logistics/NA Plant Materials	
Confirmation from Corp. that packaging Template and part assignment is done	Corp.Logistics	
Provide Supplier Training Manual to Supplier	EU Logistics/NA Plant Materials	
Supplier to create Bar code Layout set up	Supplier	
Supplier to assign Template to Facility	Supplier	
On request , provide ASN with packaging creation training to supplier	Sweb Admin	
Agree on Go Live date	EU LSCM /NA Plant Materials/Supplier	
Send Label Template requirement (Odette/VDA/Odette-PO) + Supplier Name and Container characteristics requirement (Detail, Both, Serial, Mixed container) to the SupplyWEB Admin group at least 2 days before Go Live date	EU Logistics/NA Plant Materials	
CUSTOMER PROFILE SET UP	Sweb Admin	
LABEL TEMPLATE ASSIGNMENT	Sweb Admin	
SERIAL Number PREFIX SET UP if new facility Go Live	Sweb Admin	
Confirmation received from Sweb Admin that changes are made	Sweb Admin	
GO LIVE	EU Logistics/NA Plant Materials/Supplier	







# SUPPLIER SET UP

## BAR CODE LAYOUT SET UP –SUPPLIER SIDE

### Setup→Bar Code Label Layout

On Tenneco request, you may need to define all below listed Layout:

**Bar Code Layout Setup**

Layout Definitions						
Edit	Delete	Layout Name	Height	Width	Labels Per Page	Labels Per Serial
	<input type="checkbox"/>	NA Std. Label	8.5 in	11 in	1	1
	<input type="checkbox"/>	Odette_Detail	11.69 in	8.26 in	2	1
	<input type="checkbox"/>	Odette_master	11.69 in	8.26 in	2	1
	<input type="checkbox"/>	Mixed_pallet	11.69 in	8.26 in	2	1
	<input type="checkbox"/>	VDA-Detail	11.69 in	8.26 in	2	1
	<input type="checkbox"/>	VDA-Master	11.69 in	8.26 in	2	1

You defined here the size of the label paper you are printed to for each type of Labels.

The below definition enable two labels to be printed on a standard A4.  
To create a new layout click 'Add' and fill in the requested information.

You can preview the resulted label by selecting a label under 'Select Label' and Click the 'Print Preview' button.

Bar code Label Layout Setup	
Layout Name	<input type="text" value="Odette_Detail"/>
Unit Of Measure	<input type="text" value="in"/>
Select Label	<input type="text" value="Choose One..."/>

Label Stock Paper Size	
Height	<input type="text" value="11.69"/>
Width	<input type="text" value="8.26"/>

Label Layout On A Page	
Top Margin	<input type="text" value="0"/>
Left Margin	<input type="text" value="0"/>
Columns Per Page	<input type="text" value="1"/>
Space Between Columns	<input type="text" value=""/>
Rows Per Page	<input type="text" value="2"/>
Space Between Rows	<input type="text" value="0.05"/>
Labels To Print Per Serial	<input type="text" value="1"/>

<input type="button" value="Print Preview"/>	<input type="button" value="Submit"/>	<input type="button" value="Cancel"/>
--	---------------------------------------	---------------------------------------

## **LABEL TEMPLATE ASSIGNMENT**

### **Set up → Label Templates**

Each Tenneco site you ship to will let you know the Label Template they do want to receive- the below are available for use:

ODETTE-STANDARD

VDA-STANDARD

VDA-KLT

GENERIC-X12

And

ODETTE-STANDARD-PO: allows to have the PO number printed instead of the supplier part number reference

VDA-STANDARD-PO: allows to have the PO number printed instead of the packaging reference number.

They will also specify the Label type, they do wish to receive: they can be up to 3:

- Master
- Detail
- Mix

A Label template and Label layout is to be assigned to each Label type.

**To set them up, Click 'ADD': select the facility, Label Template and layout for each of the requested Label type:**

Setup Label Templates

Search Criteria		
Facility	Tredegar	
Label Layout Selection		
Edit	Label Type	Template
	Detail	Odette-Standard-PO
	Container Specific	< Unassigned >
	Master	Odette-Standard-PO
	Mixed	Generic-Mixed-WithoutSerialNo
	Kanban	supplyWebKanban.xml
		Layout
		Odette_Detail
		< Undefined >
		Odette_master
		Mixed_pallet
		< Undefined >
<input type="button" value="Update"/>		

Update to SAVE the settings.

# SUPPLIER HOW TO

## A- HOW TO CREATE ASN WITH PACKAGING INFORMATION

Once your set up is done, you can create an ASN.

As Normal, connect and go to Shipment --> Create Shipper.

Select the part and qty to ship.

Shipping Information					
Facility	Ship To	Supplier	Ship From		
Tredegar Tafarnaubach Ind Est Tredegar NP22 3AA UNITED KINGDOM	Tredegar Tafarnaubach Ind Est Tredegar NP22 3AA UNITED KINGDOM	Aslam Lamec S.r.l. Strada Barbania 130 10155 Rocca Canavese (TO) PIEMONTE ITALY	Aslam Lamec S.r.l. Strada Barbania 130 10155 Rocca Canavese (TO) PIEMONTE ITALY		
Requirement Filters					
Requirement View		30 Days		Ship Coverage	
Transit Time		5 Days 0 Hrs 0 Mins		30 Days <input checked="" type="checkbox"/> Include Weekends	
Test or Production		Production		Dock	
		PO Number			
<input type="button" value="Search"/>					
Part List					
<input type="checkbox"/>	Part	Description	PO Number	Suggested Ship Qty.	Procurement Method
<input checked="" type="checkbox"/>	342630	Bracket Muffler LH	5500019977	100	Material Release
<input checked="" type="checkbox"/>	342631	Bracket Muffler RH	5500019977	100	Material Release
<input type="checkbox"/>	354158	Bracket Tailpipe LH HB	5500019977	2,300	Material Release
<input type="checkbox"/>	354363	Bracket Muffler LH	5500019977	700	Material Release
<input type="checkbox"/>	354626	Bracket Muffler LH	5500019977	1,550	Material Release
<input checked="" type="checkbox"/>	354627	Bracket Tailpipe LH HB	5500019977	150	Material Release

Create Shipper

The Header remains the same:

Shipper			
Shipping Information			
Facility	Ship To	Supplier	Ship From
Tredegar Tafarnaubach Ind Est Tredegar NP22 3AA UNITED KINGDOM	Tredegar Tafarnaubach Ind Est Tredegar NP22 3AA UNITED KINGDOM	Aslam Lamec S.r.l. Strada Barbania 130 10155 Rocca Canavese (TO) PIEMONTE ITALY	Aslam Lamec S.r.l. Strada Barbania 130 10155 Rocca Canavese (TO) PIEMONTE ITALY
Header Information			
Shipper Number	417	Ship Date & Time	02-02-2011 02:20:15 PM CET
Freight	Collect	Expected Arrival Date & Time	02-07-2011 02:20:15 PM CET
AETC		AETC Responsibility	
Vehicle Number		Transport	Consolidated Truck
SCAC		Dock	
Pro Number		Test or Production	Production
Bill of lading number		Remarks	
Carrier			
Route Code			
Supplier Attached Files	<input type="button" value="Browse..."/> <input type="button" value="Attach File"/> <input type="button" value="Delete File"/>		
<input type="button" value="Edit"/> <input type="button" value="AETC Request"/>			

The Template appears at Line item level and you can check the packaging assignment by clicking the 'Container' button.

Line Items							
Line Item	Delete	Containers	Packaging Template	Customer Part Number	Purchase Order	Quantity Shipped	UoM
	<input type="checkbox"/>		TRM-CONT(N)50 - TRM-CONT(N)50	342630	5500019977	100	PC
	<input type="checkbox"/>		TRM-CONT(N)25 - TRM-CONT(N)25	342631	5500019977	100	PC
	<input type="checkbox"/>		TRM-CONT(N)25 - TRM-CONT(N)25	354627	5500019977	150	PC
				<input type="button" value="Add Line Item"/>	<input type="button" value="Delete Line Items"/>		
				<input type="button" value="Print Labels"/>	<input type="button" value="Print Shipping Documents"/>	<input type="button" value="Preview"/>	<input type="button" value="Validate"/>
				<input type="button" value="Publish"/>			

## Part 342630: 2 DETAILS of 50

Part Information								
Customer Part Number			Qty Shipped		U of M	Packaging Template		
342630			100		PC	TRM-CONT(N)50		
Loose Container List								
Edit	<input type="checkbox"/>	Container Code	Tare Weight (Kilograms)	Units Per	Serial Number	Include in Advance Shipping Notice	Include in Printing Documents	Include in Barcode label
	<input type="checkbox"/>	6 - Container (N)	40	50				
	<input type="checkbox"/>	6 - Container (N)	40	50				
				<div>Add</div>	<div>Delete</div>			

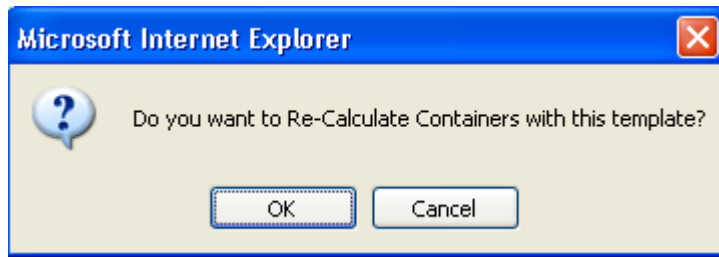
## Part 342631: 4 DETAILS of 25

Part Information								
Customer Part Number			Qty Shipped		U of M	Packaging Template		
342631			100		PC	TRM-CONT(N)25		
Loose Container List								
Edit	<input type="checkbox"/>	Container Code	Tare Weight (Kilograms)	Units Per	Serial Number	Include in Advance Shipping Notice	Include in Printing Documents	Include in Barcode label
	<input type="checkbox"/>	6 - Container (N)	40	25				
	<input type="checkbox"/>	6 - Container (N)	40	25				
	<input type="checkbox"/>	6 - Container (N)	40	25				
	<input type="checkbox"/>	6 - Container (N)	40	25				
					<input type="button" value="Add"/>	<input type="button" value="Delete"/>		

## Part 354627: 2 DETAILS of 75

Part Information								
Customer Part Number			Qty Shipped		U of M	Packaging Template		
354627			150		PC	TRM-CONT(N)75		
Loose Container List								
Edit	<input type="checkbox"/>	Container Code	Tare Weight (Kilograms)	Units Per	Serial Number	Include in Advance Shipping Notice	Include in Printing Documents	Include in Barcode label
	<input type="checkbox"/>	6 - Container (N)	40	75				
	<input type="checkbox"/>	6 - Container (N)	40	75				
					<div>Add</div>	<div>Delete</div>		

If you do change the Packaging Template: the system asks if you do want to Re-calculate the container.



Press YES and check the containers are correct.

If you select 'None' as the packaging Template: then you do need to enter everything manually. A new template will be saved on the supplier side.

If it is a one time, you can leave it like this.

If this packaging type and quantity is to be used on a regular basis, contact Tenneco and let them know you need a new packaging template to be defined for the specified part.

When generating the Shipping document, the packaging appears on the document:

27 Pos.	28 Material -/ Teil-Nr. Customer Part-No. No de pièce du destinataire	29 Bezeichnung der Lieferung / Leistung/Delivery description / Designation des marchandises 21 Verpackungseinheiten Packing details and Tag-No Ddétail de l'emballage et No des étiquettes	30 Menge Quantity Quantité	31 Einh. Unit Unité	40 Empfängervermerke Customer Remarks Reerv. au client Menge/istj Quantity Quantité	+ / -	Vermerke Remarks Remarque
1	342631	Bracket Muffler RH Best. -/ Anford. -/Abschl. -Nr/Order Num : 5500019977 Änderungsstand/Engineering Level: Verpackungsart/Package Type Non return. Cont. 4 Lot / Batch Number(Line Item) :	100	PC			
2	354627	Bracket Tailpipe LH HB Best. -/ Anford. -/Abschl. -Nr/Order Num : 5500019977 Änderungsstand/Engineering Level: Verpackungsart/Package Type Non return. Cont. 2 Lot / Batch Number(Line Item) :	150	PC			
3	342630	Bracket Muffler LH Best. -/ Anford. -/Abschl. -Nr/Order Num : 5500019977 Änderungsstand/Engineering Level: Verpackungsart/Package Type Non return. Cont. 2 Lot / Batch Number(Line Item) :	100	PC			

### 3- HOW TO CREATE ASN WITH MIXED CONTAINER INFORMATION

Creation is the same until you reach the Create shipper screen:

Line Items							
Line Item	Delete	Containers	Packaging Template	Customer Part Number	Purchase Order	Quantity Shipped	UoM
	<input type="checkbox"/>		Template_30186 - Packaging Template30186	273206	5500013187	100	KG
	<input type="checkbox"/>		Template_30188 - Packaging Template30188	273334	5500014190	100	KG

Click on **Containers** for the first part and Edit the Master

Containers						
<b>Shipper Information</b>						
<b>Facility</b>	<b>Ship To</b>	<b>Shipper No.</b>	<b>Ship Date</b>			
Edenkoben	Edenkoben	780	03.12.2010 13:39:03 CET			
<b>Part Information</b>						
<b>Customer Part Number</b>	<b>Qty Shipped</b>	<b>UoM</b>				
273206	100	KG				
<b>Master Container Information</b>						
<b>Container Type</b>	<b>Container Code</b>	<b>Tare Weight (Kilograms)</b>	<b>Units Per</b>			
Master Mixed	5 - Pallet (N)	21	100			
<b>Include in Advance Shipping Notice</b>		<b>Include in Printing Documents</b>	<b>Include in Barcode label</b>			
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>			
<b>Detail Container List</b>						
<b>Edit</b>	<b>Container Code</b>	<b>Tare Weight (Kilograms)</b>	<b>Units Per</b>	<b>Include in Advance Shipping Notice</b>	<b>Include in Printing Documents</b>	<b>Include in Barcode label</b>
	6 - Container (N)	8	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	6 - Container (N)	8	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Select **MIXED** as container type

**SAVE and RETURN** to the Create Shipper screen.

Click on the second part 'Containers' definition and apply the same process than for the first part.

**CAUTION: It will only work if the container types are the same for both parts.**

Return to the Create Shipper screen once done.

The below screen appears: **GROUP CONTAINERS** is now available.

Line Items							
Line Item	Delete	Containers	Packaging Template	Customer Part Number	Purchase Order	Quantity Shipped	UoM
	<input type="checkbox"/>		Template_30191 - Packaging Template30191	273206	5500013187	100	KG
	<input type="checkbox"/>		Template_30190 - Packaging Template30190	273334	5500014190	100	KG

Click on **Group Containers**

Shipments Shippers

Containers

Shipper Header

Facility	Ship To	Shipper No.	Ship Date
Edenkoben	Edenkoben	780	03.12.2010 13:39:03 CET

Mixed Containers

Line No.	Serial Number	Container Type	Part	Total Qty	Separate
5 - Pallet (N)			273206	100	<input type="checkbox"/>
5 - Pallet (N)			273334	100	<input type="checkbox"/>

Separated Mixed Containers

Container Type	Serial Number	Part	Total Qty	Group
5 - Pallet (N)		273206	100	<input type="checkbox"/>
5 - Pallet (N)		273334	100	<input type="checkbox"/>

Select the 2 containers and Click **GROUP**.

**!!If you did not make sure the containers have both the same container type, you will receive an error message when trying to group them.**

Containers

Shipper Header

Facility	Ship To	Shipper No.	Ship Date
Edenkoben	Edenkoben	780	03.12.2010 13:39:03 CET

Mixed Containers

Line No.	Serial Number	Container Type	Part	Total Qty	Separate
1		5 - Pallet (N)	273206	100	<input type="button" value="Separate"/>
		5 - Pallet (N)	273334	100	

Separated Mixed Containers

Container Type	Serial Number	Part	Total Qty	Group
				<input type="button" value="Group"/>

**The MIXED Container is created**

### **3 -HOW TO CREATE ASN WITH PACKAGING INFORMATION and SERIAL NUMBER**

The ASN creation process is the same if you do create an ASN with Packaging only OR with packaging and serial numbers.

**The Serial numbers are automatically generated at the time you print the labels.**

**The supplier must print (or generate) the Labels before Publishing the ASN.**

#### **CREATE AN ASN:**

**Part 273206 is packed in 10 containers of 50 parts and**







**Part 273334 is packed in 10 containers of 10 parts.**

Header Information							
Shipper Number	781		Ship Date & Time	03.12.2010 14:32:54 CET			
Freight	Collect		Expected Arrival Date & Time	04.12.2010 14:32:54 CET			
AETC			AETC Responsibility				
Vehicle Number			Transport	Supplier Truck			
SCAC			Dock				
Pro Number			Test or Production	Production			
Bill of lading number			Remarks				
Carrier							
Route Code							
Supplier Attached Files	<input type="text"/>		<input type="button" value="Browse..."/>	<input type="button" value="Attach File"/>	<input type="button" value="Delete File"/>		
<input type="button" value="Edit"/> <input type="button" value="AETC Request"/>							
Line Items							
Line Item	Delete	Containers	Packaging Template	Customer Part Number	Purchase Order	Quantity Shipped	UoM
	<input type="checkbox"/>		Template_30191 - Packaging Template30191	273206	5500013187	500	KG
	<input type="checkbox"/>		Template_30193 - Packaging Template30193	273334	5500014190	100	KG
<input type="button" value="Add Line Item"/> <input type="button" value="Delete Line Items"/>							
<input type="button" value="Print Labels"/> <input type="button" value="Print Shipping Documents"/> <input type="button" value="Preview"/> <input type="button" value="Validate"/> <input type="button" value="Publish"/>							

When you do click on 'print Labels': you must get a label for each detail container. If master containers are used, you will also get a label for each of them.

CAUTION: If you validate your ASN before printing the Labels: you will receive an error message that the serial number are missing!! Once other error messages are solved, print the labels and then validate.

Example of detail container ODETTE-PO Label:

RECEIVER Tredegar Tredegar NP22 3AA UNITED KINGDOM		DOCK/GATE	
ADVICE NOTE No (N) 417 		SUPPLIER ADDR Rocca Canavese (TO) PIEMONTE ITALY	
		NET WEIGHT (KG) 5,9091	GROSS WEIGHT (KG) 45,9091
		NO OF BOXES 1	
PART NUMBER (P) 342631 			
QUANTITY (Q) 25 		DESCRIPTION	
		ORDER NO (K) 5500019977 	
SUPPLIER (V) 358 		DATE 110202	
		ENG CHANGE	
SERIAL (S) TR10000045 		BATCH NO (H)	

Example of a master ODETTE LABEL

RECEIVER Tredegar Tredegar NP22 3AA UNITED KINGDOM		DOCK/GATE	
ADVICE NOTE No (N) 269 		SUPPLIER ADDR Bovenden GERMANY	
		NET WEIGHT (KG) 41,8	GROSS WEIGHT (KG) 222,8
		NO OF BOXES 4	
PART NUMBER (P) 249532 			
QUANTITY (Q) 2200 		DESCRIPTION silmat die cutting	
		SUPPLIER PART NO (303) 17930045 	
SUPPLIER (V) 271 		DATE 110202	
		ENG CHANGE	
SERIAL (M) TR10000025 		BATCH NO (H)	

Example of a VDA Label:

(1) Warenempfänger Edenkoben 67480 Edenkoben GERMANY		(2) Abladest./Lagerort/Verwendungszweck.	
(3) Lieferschein-Nr. (N) <b>844</b> 		(4) Lieferanten-Adresse (Kurzname, PLZ, Ort) AK Steel BV Holland Oosterhout	
		(5) Gewicht Netto 99,4	(6) Gewicht Brutto 107,4
		(7) Anzahl Packstücke 1	
(8) Sach-Nr. Kunde (P) <b>273206</b> 			
(9) Füllmenge (Q) <b>100 KG</b> 		(10) Bezeichnung Lieferant, Leistung COIL 0,5 x 490	
		(11) Packmittel-Nr. Kunde (B) 6 - Container ( 	
(12) Lieferanten-Nr. (V) 845 		(13) Vers.-Datum 01.02.2011	(14) Änderungsstand
(16) Packstück-Nr. (S) EDE0000205 		(18) Chargen-Nr. (H)	

Warenanhänger VDA4902 Version 4

#### 4 -HOW TO PURGE /REPRINT LABELS

You can delete/reprint Labels via **Shipment →Reprint/Purge Labels**

**Bar Code** Reprint From History

Facility Information	
Facility	< All > ▼
Selections	
Date Range DD.MM.YYYY	to
Shipper ID	
From Serial Number	
To Serial Number	
Show Labels	

Select the Facility, shipment date or shipper number for which you wish to purge/reprint the labels.

The list of corresponding labels is displayed:

Label History

Search Criteria

Facility	Shipper ID	Serial Number From	Serial Number To	Date From	Date To
Edenkoben	781	All	All	All	All

Labels1 to 17 of 22

<input type="checkbox"/>	Serial Number	Shipper ID	Label Type	Customer Part	Supplier	Qty Shipped	Date
<input type="checkbox"/>	78	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	79	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	80	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	81	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	82	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	83	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	84	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	85	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	86	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	87	781	Detail	273206	AK Steel BV Holland	50	03.12.2010
<input type="checkbox"/>	89	781	Detail	273334	AK Steel BV Holland	10	03.12.2010

You can choose to Delete or Regenerate Labels.

**If you choose to regenerate, the Labels appear and can be re-printed.**

**If you choose to delete, the label is deleted from the DB.**

### ***Attachment 8: Tenneco Europe nonconformity reason and cost***

<b>Reason group 1: Labelling presentation</b>	<b>Code</b>	<b>Sum</b>
Missing label (Master/Packaging Unit)	LAB01	13,86 €
Label incomplete	LAB02	10,50 €
Incorrect part number on label	LAB03	13,86 €
Bar code unreadable	LAB05	13,86 €
Label thickness	LAB06	10,50 €
Incorrectly located/incorrectly fixing	LAB07	10,50 €
Batch wrong	LAB08	10,50 €
Identification letter/date	LAB09	10,50 €
Others labeling	LAB99	21,00 €

<b>Reason group 2: Packaging presentation</b>	<b>Code</b>	<b>Sum</b>
Damaged box diverse	PAK01	91,50 €
Damaged pallet	PAK02	36,50 €
Dirty packaging	PAK03	21,00 €
Damaged packaging	PAK04	31,50 €
Incorrect quantity per box	PAK05	31,50 €
Faked or damaged standard EUR Gitterbox	PAK06	61,50 €
Strapping material wrong	PAK07	10,50 €
Excess dimension of loading unit/loading weight	PAK08	21,00 €
Different KLT on one pallet	PAK09	21,00 €
Missing empty KLT on the corner	PAK10	10,50 €
Missing pallet lid (KLT)	PAK11	10,50 €
Incorrect packing	PAK12	10,50 €
Marking mixed missing	PAK13	10,50 €
Others packaging	PAK99	21,00 €

<b>Reason group 3: Delivery note presentation</b>	<b>Code</b>	<b>Sum</b>
Missing delivery note	LIE01	21,00 €
Incomplete deliivery note	LIE02	13,86 €
Missing or wrong SAP number	LIE03	10,50 €
Delivery note not in english or receiving plants national language	LIE04	21,00 €
Others delivery note	LIE99	10,50 €

<b>Reason group 4: Loading or unloading vehicle</b>	<b>Code</b>	<b>Sum</b>
Load or unload timeslot not met	ENT01	42,00 €
Additional work for unloading to the side	ENT02	21,00 €
Loading space/vehicle not as ordered	ENT03	21,00 €
Driver don't know what to load	ENT04	21,00 €
Vehicle/equipment not conform to regulations	ENT05	21,00 €
Other carrier than demanded	ENT06	42,00 €
Others load or unload	ENT99	10,50 €

<b>Reason group 5: Goods</b>	<b>Code</b>	<b>Sum</b>
Goods damaged	WAR01	42,00 €
Under shipment	WAR02	21,00 €
Overdelivery	WAR03	21,00 €
Wrong part	WAR04	21,00 €
Others goods	WAR99	21,00 €

<b>Reason group 6: Premium freight</b>	<b>Code</b>	<b>Sum</b>
Premium freight cost	SON01	10,50 €
Additional handling	SON02	0,00 €
Administrative cost inbound process	SON03	10,50 €
Others premium freight	SON04	21,00 €

<b>Reason group 7: Packaging account reconciliation</b>	<b>Code</b>	<b>Sum</b>
Monthly Reconciliation file missing	PAR01	only ADMIN
Loss of Boxes	PAR02	Box market price + ADMIN
Supplier keeps more Tenneco boxes than allowed pool size for one month	PAR03	1,84 €/box/month +ADMIN
Supplier keeps more Tenneco boxes than allowed pool size for 2 months	PAR04	2,00 €/box/month +ADMIN
Supplier keeps more Tenneco boxes than allowed pool size for 3 months	PAR05	Box market price +ADMIN
Administration Fee (automatically added to all claims in this group)	ADMIN	84,00 €