

Regional Packaging Guideline

MAHLE Behr Brazil

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1 Requirements

1.1 Standard Dimensions

To store the materials on shelf racks the requirements for the dimensions of the pallets are: 1200x800 and 1200x1000mm, other dimensions have to be approved by MAHLE Behr logistics.

The height of the unit load including pallet and cover must not exceed 1100mm.

The maximum acceptable weight for unit load is 1000 kg.

1.2 Ergonomics

For small boxes that will be manually handled, the weight cannot exceed 15 kg.

The maximum acceptable weight per unit load cannot exceed 1000 kg per pallet or carton, except for BIG BAGS and coils that could be up to 1500 kg.

1.3 Product Protection

If the product requires ESD, corrosion, or moisture protection (as far as in the drawings or specifications / quality standards not specified), special protective packaging is required (ESD Tote/Bag, desiccant in a sealed bag). It is the supplier's responsibility to make sure the packaging prevents transport damage according to the defined shipping method.

1.4 Load Securing, Closure

Suppliers are responsible for the proper loading, considering quality preservation and safety. Materials that arrive in a MAHLE Behr plant that are damaged will be assessed for root cause. The severity of the damage in a truck may warrant the issuance of a supplier non conformance, and/or request for a corrective action process as dictated by MAHLE Behr.

1.5 Labeling

Each packaging must contain only a material identification label, according to Odette standard, this label shall be fixed with adhesive dots/ stick dots at the short side of the packaging and needs to be exposed for conference, example below:



PLASTIC BOX 1002



COIL



CARTON BOX

- It is not allowed use labels that leave residue when removed from the returnable containers;
- It is not allowed to use labels completely glued at the returnable containers;

2 Returnable packaging systems

2.1 Large container

The table below has the informations about the large containers that MAHLE Behr provides to national suppliers:

Container ID	Container Description	Outer Length (mm)	Outer Width (mm)	Outer Height (mm)	Inner Length (mm)	Inner Width (mm)	Inner Height (mm)	Container Weight (kg)	Maximum Stacking	Static Maximum Load (kg):
BT57740	BOX GR	1180	990	970	1110	910	760	55	6	4200
BT07177	BOX GLT 121008	1200	1000	850	1120	920	670	69	6	4200

2.2 Small container

The table below has the informations about the Small containers that MAHLE Behr provides to national suppliers:

Container ID	Container Description	Outer Length (mm)	Outer Width (mm)	Outer Height (mm)	Inner Length (mm)	Inner Width (mm)	Inner Height (mm)	Container Weight (kg)	Maximum Stacking	Static Maximum Load (kg)
BT07674	PLASTIC BOX 1002	320	165	125	280	135	120	0.49	7	33.60
BT54932	BOX MULTIPACK 6	395	297	217	347	237	212	1.31	5	356.50
BT07639	PLASTIC BOX 1012	425	340	145	370	300	140	1.31	9	161.60
BT07642	PLASTIC BOX 1014	500	350	225	410	310	220	2.50	10	332.20
BT07677	BOX MULTIPACK 5	590	370	210	553	350	200	2.10	9	395.20
BT07641	PLASTIC BOX 1013	620	385	210	555	350	205	2.28	9	444.60
BT07675	PLASTIC BOX 1035	620	390	320	555	355	310	2.94	5	396.50
BT07638	PLASTIC BOX 1010	780	560	410	690	510	400	6.49	6	840.00
BT07643	PLASTIC BOX 1024	800	345	145	735	300	140	2.38	9	357.30
BT07644	BOX COMEPACK 3	804	404	337	698	326	293	4.41	6	395.20
BT09310	PLASTIC BOX 1075	1000	300	220	960	260	215	3.43	9	423.00
BT52643	PLASTIC BOX 1076	1120	266	266	1080	226	206	3.10	9	423.00

2.3 Special Packaging

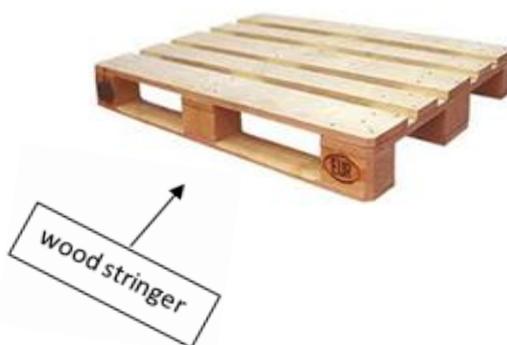
Special packaging expendable or returnable is to be developed, procured and kept in good usable conditions by the supplier unless otherwise stated in the business contract with MAHLE Behr. In the case that the supplier has to develop and procure the packaging, all packaging must be approved by MAHLE Behr logistics besides this a significant sample sizes must be available for Supplier's Run @ Rate so the packaging can be reviewed and approved.

3 Disposable Packaging

For national suppliers will only be allowed use disposable boxes just in accordance with the MAHLE Behr logistics approval.

For backup in case there is a missing of returnable container, the supplier it is allowed to use the disposable packaging, provided that it has dimensions closed to the returnable container that has been approved by logistics.

- It is required that the pallet has wooden stringers on the long side of it, for correct storage at our shelves.



4 Overseas Packaging

It's required that the pallet size has a length of 1140mm on the long side.
For more information about overseas packaging, please, see global guidelines.

5 Management of Empties

As a partnership, MAHLE Behr requests the assistance of its suppliers for the correct use and cleaning of their packaging.

The supplier is responsible for delivering the material in packaging with conditions of use, clean and with only one label identifying the material. It is also the responsibility of the supplier to request packing to the logistics to attend the deliveries of material.

MAHLE Behr is responsible for providing clean, unlabelled container in good condition. It is also responsible for general repairs and replacing broken containers. Suppliers must notify the plant in case of receiving damaged containers and must ship them back properly marked for repair.

6 Hazardous Material

See Global Logistic Guideline

7 Environment / Recycling / Waste Prevention

See Global Logistic Guideline

8 Abbreviations

ESD Electro Static Discharge