

FICHA:	EMBALAJE INDUSTRIAL. Normas y referencias
ÁREA(S):	Calidad
CATEGORÍA(S):	Embalaje Industrial
FECHA(S):	NORMAS UNE y UNE-EN ESPAÑOLAS(ver adquisición¹)
1960	UNE 49002:1960. Cajas de madera clavadas, para usos generales.
1964	UNE 49001-2:1964. Embalajes de madera. La madera y la clavazón.
1966	UNE 49023:1966. Plataformas para el transporte de maquinaria.
1964	UNE 49024-1:1964. Jaulas de madera para efectos pesados (de 25 a 500 kg).
1966	UNE 49001-1:1966. Nomenclatura de los embalajes de madera.
2000	UNE-EN 12246:2000. Clases de calidad de la madera utilizadas en las paletas y embalajes.
2000	UNE-EN 12248:2000. Madera aserrada utilizada en embalaje industrial. Desviaciones admisibles y dimensiones recomendadas.
2002	UNE 49001-2/1M:2002. Embalajes de madera. La madera y la clavazón.
2002	UNE 49001-1/1M:2002. Nomenclatura de los embalajes de madera.
NORMAS EN EUROPEAS	
1999	EN 12248:1999 Sawn timber used in industrial packaging - Permitted deviations and preferential sizes
1999	EN 12246 Quality classification of timber used in pallets and packaging
1999	EN ISO 780:1999 Packaging - Pictorial marking for handling of goods (ISO 780:1997)
2011	EN ISO 4016:2011. Hexagon head bolts - Product grade C (ISO 4016:2011)
NORMAS ISO INTERNACIONALES	
1990	ISO 1496-1:1990. Series 1 freight containers -- Specification and testing -- Part 1: General cargo containers for general purposes
1995	ISO 668:1995. Series 1 freight containers -- Classification, dimensions and ratings
1997	ISO 780:1997. Packaging -- Pictorial marking for handling of goods
2004	ISO 7000:2004. Graphical symbols for use on equipment -- Index and synopsis
NORMAS DIN ALEMANAS(ver adquisición²) según título en inglés	
	CTU packaging guidelines Guidelines for the packaging of goods with the exception of loose goods in or on transport means of all types on water and land
	DIN 55402-2 Part 1, shipping marks for packages; pictorial marking for handling of goods Part 2, marking for shipping of packages; directive for export packaging
	DIN 55405 Packaging terminology;
	DIN 55499-1 Packaging means, wooden cases types, dimensions, quality classes
	GDV German load securing manual
	Parts 1-7 Part 1, systematic concepts, alphabetical catalogue and definitions; part 3, packaging means; part 5, packaging, packaging goods, package and packaging unit Part 3, terminology; packages Part 5, terminology; packaging, content, package and packet

¹ <http://www.aenor.es/aenor/normas/buscadornormas/buscadornormas.asp?modob=S>

² http://www.beuth.de/cn/bGV2ZWw9dHBsLWhvbWUmbGFuZ3VhZ2VpZD1lbg**.html

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	Technical sheet 3100 Packaging and containers in overseas shipment
	VDI guideline 2700 ff. Securing loads in road transport RGV/BFSV technical sheets for overseas shipments
	NORMAS NF FRANCESAS (ver adquisición³) según título en inglés
	GAMB EMB 1-2-3-4-Definition, realisation and control of packaging intended for the Ministry for Defence.
1960	NF H 50-006 Manufacturing characteristics of wooden load boards.
1962	NF H 50-007 General-purpose pallets, cases and crates.
1968	NF H 03-001 Packaging in wood - Vocabulary.
1968	NF H 20-005 Full sided packing cases of sawn wood for maritime transport of retail goods.
1975	NF H 00-014 Packaging - Terminology and classification.
1981	NF H 00-001 Marking of transport packages for export.
1990	NF H 00-042-2 Packaging - Filling transport packages - Vertical impact tests for drops and toppling.
1991	NF H 00-060 Filling transport packages.
1994	NF H 00-300 Compendium of information necessary for the definition of industrial packaging.
1999	NF EN 12248: 1999. Bois sciés utilisés dans l'emballage industriel - Écart admissibles et dimensions préférentielles
2004	NF H 00-050 Reusable box pallets,
	NORMAS UNI ITALIANAS según título en inglés
	UNI 9151 1-2-3-4. Packaging in wood.
	UNI 10858 1-2-3-4 Packaging in wood.
	NORMAS BS BRITÁNICAS (ver adquisición⁴)
1991	BSI 1133 Packaging code, from 1 to 22
1992	BS 7611:1992. Specification for potato storage boxes for mechanical handling
2002	BS EN 13545:2002. Pallet superstructures. Pallet collars. Test methods and performance requirements
	ASTM D6199 – 07. Standard Practice for Quality of Wood Members of Containers and Pallets
	ASTM D6254/D6254M – 07. Standard Specification for Wirebound Pallet-Type Wood Boxes
	NORMAS US AMERICANAS
	US MIL-P-116 Methods of protecting equipment and materials.
	US MIL-STD-2073-1 Standard for military packaging.
	OTRAS NORMAS DE REFERENCIA SECTORIALES
	NORMAS DE ORGANIZACIONES SECTORIALES
2006	Minimum requirements for industrial packaging (FEFPEB) ⁵
2006	Normas Básicas Comunes en la Exportación de Embalaje de Madera (FEFPEB) ⁶

³ <http://www.boutique.afnor.org/BGR1AccueilGroupe.aspx?&nivCtx=NELZNELZ1A10A101A105&ts=5732059>

⁴ <http://shop.bsigroup.com>

⁵ http://www.fefpeb.eu/attachments/037_037_Fefpeb%20minimum%20requirements%20for%20industrial%20packaging.pdf

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2006	Specifications techniques de la marque SEI (SEILA) (sumario en inglés ⁷) (sumario en francés ⁸)
2009	Normativa Española de Embalaje FAPROMA- NEF – ES 001-09 ⁹
2009	Industrial Wood Packaging. Review of the terminological and managerial system/ Imballaggi industriali di legno. Rassegna del sistema terminologico e gestionale (ASSOIMBALLAGGI/ FEDERLEGNO ARREDO) ¹⁰
2010	Industrial Wood Packaging Guidelines/ Linee Guida per L'imballaggio industriale di legno (ASSOIMBALLAGGI) (síntesis) ¹¹
2010	Industrial Wood Packaging Guidelines/ Linee Guida per L'imballaggio industriale di legno (ASSOIMBALLAGGI) (compra de publicación) ¹²
	Otras referencias Italianas ¹³
2010	Packaging guidelines (German Federal Association for Wooden packaging, pallets and export packaging, (HPE e.V.)). 2nd revised edition 2010
NORMAS DE TRANSPORTE MARÍTIMO	
1995	ISO 668:1995. Series 1 freight containers -- Classification, dimensions and ratings
2005	ISO 668:1995/Amd 1:2005
2005	ISO 668:1995/Amd 2:2005. 45 containers
2004	Best practice guide for export packers (BRITISH INTERNATIONAL FREIGHT ASSOCIATION)
2005	Standard Trading Conditions 2005 Edition (BRITISH INTERNATIONAL FREIGHT ASSOCIATION) ¹⁴
2008	IMO ¹⁵ - International Maritime Dangerous Goods (IMDG) Code ¹⁶
NORMAS DE TRANSPORTE AÉREO	
	IATA ¹⁷ -ICAO ¹⁸ . Dangerous Goods Regulations (DGR) ¹⁹
NORMAS DE TRANSPORTE POR CARRETERA	
2011	UNECE20- ADR- European Agreement concerning the International Carriage of Dangerous Goods by Road21. Annex A: General provisions and provisions concerning dangerous substances and articles
NORMAS DE TRANSPORTE FERROVIARIO	

⁶ http://www.fefpeb.eu/attachments/037_Spanish%20version_minimum%20requirements%20for%20industrial%20packaging.pdf

⁷ http://www.seila.fr/fr/Syndicat/SommaireEtTableauPourSEILA_en.pdf

⁸ <http://www.seila.fr/fr/Syndicat/SommaireEtTableauPourSEILA.pdf>

⁹ http://www.faproma.org/secc/indice_nef.pdf

¹⁰ http://www.legno-imballaggi.it/PDF/Normative/A00_%20TERMINOLOGIA%20ITALIANO%20G.%20MAINARDI_%20predisposizione%20A4%2009.07.pdf

¹¹ http://www.legno-imballaggi.it/PDF/Normative/N%2021_%20SINTESI%2020COL_delle%20_Linee%20Guida%20per%20Imballaggio%20Industriale%20_Industrial%20Wood%20Packaging%20Guidelines_.pdf

¹² http://www.unilibro.it/find_buy/Scheda/libreria/autore-non-specificato/sku-13123575/linee_guida_per_l_imballaggio_industriale_di_legno.htm

¹³ <http://www.legno-imballaggi.it/normative.html>

¹⁴ [www.bifa.org/ attachments/Resources/1012_S4.pdf](http://www.bifa.org/attachments/Resources/1012_S4.pdf)

¹⁵ International Maritime Organization

¹⁶ http://www5.imo.org/SharePoint/mainframe.asp?topic_id=158

¹⁷ International Air Transport Association

¹⁸ International Civil Aviation Organization

¹⁹ <http://www.iata.org/ps/publications/dgr/Pages/index.aspx>

²⁰ United Nations Economic Commission for Europe (UNECE)

²¹ <http://www.unece.org/trans/danger/publi/adr/adr2011/11ContentsE.html>

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2006		OTIF-COTIF22: Uniform Rules Concerning the Contract of International Carriage of Goods by Rail (CIM - Appendix B to the Convention) ²³
2006		OTIF-COTIF: Regulation concerning the International Carriage of Dangerous Goods by Rail (RID - Appendix C to the Convention) ²⁴
NORMAS DE TRANSPORTE POR CANALES		
2011		UNECE- ADN- European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) ²⁵

²² Intergovernmental Organisation for International Carriage by Rail (OTIF)

²³ http://www.otif.org/fileadmin/user_upload/otif_verlinkte_files/07_veroeff/02_COTIF_99/RU-CIM-1999-e.PDF

²⁴ http://www.otif.org/fileadmin/user_upload/otif_verlinkte_files/07_veroeff/02_COTIF_99/RID-1999-e.PDF

²⁵ http://www.unece.org/trans/danger/publi/adn/adn2009/09files_e.html