European and Mediterranean Plant Protection Organization Organisation Européenne et Méditerranéenne pour la Protection des Plantes

PM 8/2 (3)

Mesures phytosanitaires par marchandise Commodity-specific phytosanitary measures

PM 8/2 (3) Coniferae

Specific scope

The purpose of the EPPO Standard on Coniferae is to recommend to EPPO Member Governments the phytosanitary measures which they should use or require for Coniferae plants and plant products moving in international trade in order to prevent the introduction and spread of quarantine pests. Some of these recommendations are addressed to all EPPO Member Governments, and others are addressed only to countries considered to face a certain level of risk from the introduction and spread of the regulated pests concerned. All these recommendations were derived from:

- EPPO Standards PM 1/2 (EPPO A1 and A2 Lists) and the former EPPO Standards PM 2 (pest-specific phytosanitary measures), or
- · Pest Risk Analysis carried out or reviewed by EPPO, or
- the Working Party on Phytosanitary Regulations.

For wood packaging material, recommendations are based on ISPM 15 Regulation of wood packaging material in international trade.

Specific approval and amendment

First approved in 2009-09. Revised in 2014-09 and in 2018-09

1. Plants and commodities concerned

This Standard relates to all plants and plant products of the Coniferae subkingdom (phylum).

The Standard concerns the commodities that are regularly traded, i.e. wood (including untreated wood in manufactured articles), bark, plants for planting and cut branches. Wood packaging material, although not a commodity *per se*, is also included. Plants for planting are considered in general at the genus level. Coniferae wood may be traded as pure or mixed consignments, for example wood chips obtained from woody plants of different genera. Since the genus should be indicated on the phytosanitary certificate, every genus present should be specified in the case of mixed consignments. Such consignments should satisfy all the requirements for every genus present.

Commodities concerned

Wood (as a commodity class): commodities such as round wood, sawn wood, wood chips and wood residue, with or without bark, excluding wood packaging material, processed wood material and bamboo products (ISPM 5).

Round wood: wood not sawn longitudinally, carrying its natural rounded surface, with or without bark (ISPM 5). Branches of woody plants used for bioenergy production should be considered under this category of commodities.

Sawn wood: wood sawn longitudinally, with or without its natural rounded surface with or without bark (ISPM 5).

Processed wood material: products that are a composite of wood constructed using glue, heat and pressure, or any combination thereof (ISPM 5).

Manufactured wood items: to be added when defined under the ISPM (under development) on 'International movement of wood products and handicrafts made of wood'.

Harvesting residues: wood material consisting of any parts of trees left on the site after round wood harvesting (EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items).

Processing wood residues: parts of wood and bark that are left after the process of transforming round wood into sawn wood and further transformation of sawn wood (EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items).

Wood chips: wood with or without bark in the form of pieces with a definable particle size produced by mechanical treatment with sharp tools (EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items).

Hogwood: wood with or without bark in the form of pieces of varying particle size and shape, produced by crushing with blunt tools such as rollers, hammers or flails (EPPO Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items).

Post-consumer scrap wood: a wide variety of wood material from ex-commercial, industrial and domestic use made available for recycling (EPPO *Study on Wood Commodities other than Round Wood, Sawn Wood and Manufactured Items*).

Wood packaging material: wood or wood products (excluding paper products) used in supporting, protecting or carrying a commodity (includes dunnage) (ISPM 5). Because this is not a commodity *per se* it is separated from wood. It includes wooden structures that accompany traded commodities such as pallets, boxes, crates, spools and dunnage (maintain as in ISPM 15).

Cut branches (including coppiced stems): defined in ISPM 5 as 'a commodity class for fresh parts of plants intended for decorative use and not for planting'.

Bark (as a commodity): bark separated from wood (ISPM 5). Bark may contain pieces of wood with it.

Plants for planting: plants intended to remain planted, to be planted or replanted (ISPM 5). This commodity type includes nursery plants such as seedlings (1–5 years old, used for reforestation) and seeds. It also includes quite large trees (<20 years) for transplanting to gardens, amenity plantings or architectural plantings, and includes naturally or artificially dwarfed plants (bonsais). The risks of transporting regulated pests are different for trees of different ages.

Other definitions

Bark: the layer of a woody trunk, branch or root outside the cambium (ISPM 5).

Bark-free wood: wood from which all bark, except ingrown bark around knots and bark pockets between rings of annual growth, has been removed (ISPM 5).

Debarked wood: wood that has been subjected to any process that results in the removal of bark (debarked wood is not necessarily bark-free wood) (ISPM 5).

Debarking: a process designed to remove a large majority of the bark, thereby producing debarked wood.

Heat treatment: the process in which a commodity is heated until it reaches a minimum temperature for a minimum period of time according to an official technical specification (ISPM 5).

2. Pests of Coniferae recommended for regulation

This Standard relates to the EPPO A1 and A2 pests which are recommended for regulation as quarantine pests (EPPO Standard PM 1/2) for which Coniferae can be a significant pathway of introduction. The phytosanitary measures described in the Standard are primarily aimed at preventing the introduction and spread of these specific pests in the EPPO region. Details on these pests can be found on the EPPO website (https://www.eppo.int/), in *Quarantine Pests for Europe* (EPPO/CABI, 1997) or in *Bulletin OEPP/EPPO Bulletin* for more recent additions to the lists.

2.1 Pests of Coniferae

Abies

A1 pests A2 pests

Insects

Acleris gloverana Acleris variana

Choristoneura freemani

Choristoneura fumiferana

Dryocoetes confusus

Gnathotrichus sulcatus

Malacosoma disstria

Monochamus spp. (vectors of Bursaphelenchus xylophilus):

Monochamus alternatus

Monochamus marmorator

Monochamus obtusus

Monochamus scutellatus

Monochamus titillator

Orgyia pseudotsugata

Fungi and fungus-like organisms

Phellinus weirii

Parasitic plants

Arceuthobium abietinum

Arceuthobium douglasii

Arceuthobium laricis

Insects

Dendrolimus sibiricus

Dendrolimus superans

Ips hauseri

Ips subelongatus

Sirex ermak

Tetropium gracilicorne

Polygraphus proximus (vector of Grosmannia aoshimae)

Fungi and fungus-like organisms

Heterobasidion irregulare

Melampsora medusae

Phytophthora ramorum

Nematodes

Bursaphelenchus xylophilus

Chamaecyparis

A1 pests A2 pests Acari Nematodes Oligonychus perditus Bursaphelenchus xylophilus Fungi and fungus-like organisms Monochamus spp. (vectors of B. xylophilus) Phytophthora lateralis Phytophthora ramorum Fungi and fungus-like organisms Phellinus weirii Cryptomeria A1 pests A2 pests Acari Nematodes Oligonychus perditus Bursaphelenchus xylophilus Insects Monochamus spp. (vectors of B. xylophilus) Juniperus A2 pests A1 pests Acari Fungi and fungus-like organisms Oligonychus perditus Heterobasidion irregulare Fungi and fungus-like organisms Phellinus weirii Gymnosporangium clavipes Gymnosporangium globosum Gymnosporangium juniperi-virginianae Gymnosporangium yamadae Larix A1 pests A2 pests Choristoneura freemani Dendrolimus sibiricus Choristoneura fumiferana Dendrolimus superans Gnathotrichus sulcatus Ips hauseri Malacosoma disstria Ips subelongatus Monochamus spp. (vectors of Bursaphelenchus xylophilus): Scolytus morawitzi Monochamus alternatus Sirex ermak Monochamus scutellatus Tetropium gracilicorne Strobilomyia viaria Xylotrechus altaicus Polygraphus proximus (vector of Grosmannia aoshimae) Fungi and fungus-like organisms Mycosphaerella laricis-leptolepidis Phellinus weirii Fungi and fungus-like organisms Botryosphaeria laricina Parasitic plants Heterobasidion irregulare Arceuthobium laricis Melampsora medusae Arceuthobium pusillum Phytophthora ramorum

Nematodes

Bursaphelenchus xylophilus

Picea

A1 pests A2 pests

Insects

Acleris gloverana
Acleris variana
Choristoneura freemani
Choristoneura fumiferana
Dendroctonus frontalis
Dendroctonus rufipennis

Gnathotrichus sulcatus

Malacosoma disstria

Monochamus spp. (vectors of Bursaphelenchus xylophilus):

Monochamus alternatus Monochamus marmorator Monochamus scutellatus Monochamus titillator Pissodes nemorensis

Pissodes strobi

Fungi and fungus-like organisms

Chrysomyxa arctostaphyli

Phellinus weirii

Parasitic plants

Arceuthobium douglasii Arceuthobium larici Arceuthobium pusillum Arceuthobium tsugense Insects

Dendrolimus sibiricus Dendrolimus superans

Ips hauseri Ips subelongatus Sirex ermak

Tetropium gracilicorne

Polygraphus proximus (vector of Grosmannia aoshimae)

Fungi and fungus-like organisms Heterobasidion irregulare Melampsora medusae Phytophthora ramorum

Nematodes

Bursaphelenchus xylophilus

Pinus

A1 pests A2 pests

Insects

Choristoneura fumiferana Dendroctonus adjunctus Dendroctonus brevicomis Dendroctonus frontalis Dendroctonus ponderosae Gnathotrichus sulcatus

Ips calligraphus
Ips confusus
Ips grandicollis

Ips lecontei
Ips paraconfusus
Ips pini
Ips plastographus

Malacosoma disstria

Monochamus spp. (vectors of Bursaphelenchus xylophilus):

Monochamus alternatus Monochamus carolinensis Monochamus mutator Monochamus nitens Monochamus notatus Monochamus obtusus Monochamus scutellatus Monochamus titillator Pissodes nemorensis

Pissodes strobi Pissodes terminalis Insects

Dendrolimus sibiricus Dendrolimus superans Ips hauseri

Ips subelongatus Sirex ermak

Tetropium gracilicorne

Polygraphus proximus (vector of Grosmannia aoshimae)

Fungi and fungus-like organisms Cronartium kamtschaticum Fusarium circinatum Heterobasidion irregulare Lecanosticta acicola Melampsora medusae

Nematodes

Bursaphelenchus xylophilus

A1 pests	A2 pests
- · · · · ·	
Fungi and fungus-like organisms	
Atropellis pinicola	
Atropellis piniphila	
Cronartium coleosporioides	
Cronartium comandrae	
Cronartium comptoniae	
Cronartium fusiforme	
Cronartium himalayense	
Cronartium quercuum	
Endocronartium harknessii	
Mycosphaerella gibsonii	
Ophiostoma wageneri	
Phellinus weirii	
Parasitic plants	
Arceuthobium americanum	
Arceuthobium campylopodum	
Arceuthobium laricis	
Arceuthobium minutissimum	
Arceuthobium occidentale	
Arceuthobium pusillum	
Arceuthobium tsugense	
Arceuthobium vaginatum	
Pseudotsuga A1 pests	A2 pests
Tourist	
Insects	Fungi and fungus-like organisms
Insects Acleris gloverana	Fungi and fungus-like organisms Botryosphaeria laricina
Acleris gloverana	Botryosphaeria laricina
Acleris gloverana Choristoneura freemani	Botryosphaeria laricina Dendrolimus sibiricus
Acleris gloverana Choristoneura freemani Choristoneura fumiferana	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus)	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus)	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri Phellinus weirii	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri Phellinus weirii Parasitic plants Arceuthobium douglasii	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri Phellinus weirii Parasitic plants	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes Bursaphelenchus xylophilus
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri Phellinus weirii Parasitic plants Arceuthobium douglasii Taxus Al pests	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes Bursaphelenchus xylophilus
Acleris gloverana Choristoneura freemani Choristoneura fumiferana Dendroctonus pseudotsugae Gnathotrichus sulcatus Malacosoma disstria Monochamus obtusus (vectors of Bursaphelenchus xylophilus) Orgyia pseudotsugata Fungi and fungus-like organisms Ophiostoma wageneri Phellinus weirii Parasitic plants Arceuthobium douglasii	Botryosphaeria laricina Dendrolimus sibiricus Fusarium circinatum Heterobasidion irregulare Melampsora medusae Phytophthora ramorum Nematodes Bursaphelenchus xylophilus

Thuja	
A1 pests	A2 pests
Fungi and fungus-like organisms	Fungi and fungus-like organisms
Phellinus weirii	Heterobasidion irregulare
	Phytophthora lateralis
Tsuga	
A1 pests	A2 pests
Insects	Insects
Acleris gloverana	Dendrolimus sibiricus
Choristoneura freemani	Dendrolimus superans
Choristoneura fumiferana	Polygraphus proximus
Gnathotrichus sulcatus	
Monochamus spp. (vectors of Bursaphelenchus xylophilus)	Fungi and fungus-like organisms
	Heterobasidion irregulare
Fungi and fungus-like organisms	Phytophthora ramorum
Melampsora farlowii	
Phellinus weirii	Nematodes
	Bursaphelenchus xylophilus
Parasitic plants	
Arceuthobium laricis	
Arceuthobium tsugense	

The above lists cover all pests which are recommended for regulation by EPPO and for which Coniferae commodities are significant potential pathways of introduction.

They do not necessarily cover all regulated pests which have been recorded on Coniferae.

New emerging pest situations, based on pest risk analysis (PRA), may lead to addition of pests to the Standard.

3. Commodity-specific phytosanitary requirements for Coniferae

Each pest recommended for regulation has been considered by the EPPO Working Party on Phytosanitary Regulations and pest-specific phytosanitary requirements were recommended (EPPO Standards PM2, withdrawn in 2006). These former pest-specific requirements have been analysed and their content reviewed and rearranged into recommended commodity-specific requirements for Coniferae. Phytosanitary measures for recently EPPO listed (A1 or A2) pests were taken from the pest risk management part of PRA performed by the EPPO Expert Working Groups and rearranged in a consistent way by the EPPO Panel on Quarantine Pests for Forestry.

The commodity-specific requirements also include general measures for polyphagous, contaminating and other

non-indigenous pests which may be associated with consignments of Coniferae.

In many places, the commodity-specific requirements refer to specific phytosanitary procedures. These are described in detail in separate EPPO Standards or in appendices to this Standard.

Normally it is recommended that the requirements fulfilled by the exporting countries and stated on the phytosanitary certificate are accepted by the importing country. However, in certain cases where the trade is new, there remains a degree of uncertainty about the adequacy of the application of the measures, which can only be resolved by following appropriate transitional procedures. These procedures should be developed in the framework of transitional arrangements (EPPO Standard under development). Cases where such special procedures apply may be specifically identified in this section, and the corresponding requirements are preceded by the phrasing: 'subject, where appropriate, to special procedures under transitional arrangements'.

Regulation of Coniferae pests

Al pests

All EPPO countries are recommended to regulate as quarantine pests the Coniferae pests in the EPPO A1 List (see Section 2).

A2 pests

For EPPO A2 pests recommended for regulation (see Section 2), EPPO countries where a given A2 pest does not occur, or where it is not widely distributed, are recommended to regulate it as a quarantine pest. If they do, they are recommended to make the requirements specified for this pest.

4. List of recommended phytosanitary measures

Please note that for the tables below when 'OR' or 'AND' is written in capitals they separate two sections of options.

When 'or' or 'and' is not in capitals they separate only one option from another.

Tested and found free from *Bursaphelenchus xylophilus* and its vectors and must come from a place of production whose immediate vicinity was free from *Bursaphelenchus xylophilus* according to EPPO National

Regulatory Control System no. 9/1

Transported outside of the Monochamus flight period

AND

4.1. General requirements for Coniferae

Plants for planting of Coniferae Phytosanitary certificate (PC) and, if appropriate, re-export phytosanitary certificate (RC) Plants for planting of Coniferae other than seeds and plants in tissue Dormant, clean (i.e. free from plant debris), flowers and seeds Grown in nurseries Inspected prior to export and found free from bacteria, viruses and viruslike organisms, or subjected to appropriate treatment to eliminate such organisms Plants for planting (except seeds) of Coniferae originating in countries Pest-free area for Phellinus weirii where Phellinus weirii is present Plants for planting of Coniferae with soil and growing medium Grown according to EPPO Standard PM 3/54 attached or associated Plants for planting of Coniferae in tissue culture Grown in approved tissue culture facilities under sterile conditions The plants and growing medium inspected prior to export and found free from bacteria, viruses and virus-like organisms, or subjected to appropriate treatment to eliminate such organisms Plants for planting (except seeds) of Coniferae (except Thuja and Pest-free area for Bursaphelenchus xylophilus Taxus) originating in countries where Bursaphelenchus xylophilus is present The host plants should have been tested and found free from Bursaphelenchus xylophilus and its vectors and produced under vectorproof conditions AND Transported outside of Monochamus flight period Not transported through areas infested with Bursaphelenchus xylophilus Transported closed to prevent infestation Plants for planting (except seeds) of Coniferae originating in countries Pest-free area for Heterobasidion irregulare where Heterobasidion irregulare is present Grown under complete physical isolation according to EPPO Standard PM 5/8 or Plants younger than 5 years grown in pots in sterilized substrate at least 20 km from the closest infestation (or, if a containment plan is applied, at least 10 km from the demarcated infested area), wounds avoided, and intensive monitoring in the space between the nursery and the closest infestation Cut branches (including cut Christmas trees without roots or soil) of PC and, if appropriate, RC Cut branches (including cut Christmas trees without roots or soil) of Pest-free area for Bursaphelenchus xylophilus Coniferae (except Thuja and Taxus) originating in countries where

(continued)

Bursaphelenchus xylophilus is present

Particle wood (wood chips, hogwood), harvesting and processing residues of Coniferae (except Thuja and Taxus) originating in countries where Bursaphelenchus xylophilus is present

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Pest-free area for Bursaphelenchus xylophilus

Transported outside of the Monochamus flight period

Not transported through areas infested with Bursaphelenchus xylophilus

Transported closed, to prevent infestation

Requirements of ISPM 15

Wood packaging material of Coniferae

Isolated bark of Coniferae

Isolated bark of Coniferae originating in countries where

Heterobasidion irregulare is present

PC and, if appropriate, RC

Pest-free area for Heterobasidion irregulare

Heat-treated, while fresh to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark (this heat treatment is only efficient when the moisture content of wood is high. Therefore, wood should not be kiln-dried or air-dried before the

heat treatment)

Isolated bark of Coniferae (except Cryptomeria and Taxus) orig-

inating in countries where Phellinus weirii is present

Isolated bark of Coniferae originating in countries where

Bursaphelenchus xylophilus or its vectors are present

Pest-free area for Phellinus weirii

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark Pest-free area for Bursaphelenchus xylophilus

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

Pest-free area for the relevant pests listed in the left column

4.2. Genus-specific requirements for Coniferae

Requirements for Abies

Plants for planting (except seeds) of Abies originating in countries where any of the following pests are present:

Acleris gloverana

Acleris variana

Arceuthobium abietinum

Arceuthobium douglasii

Arceuthobium laricis

Choristoneura freemani

Choristoneura fumiferana

Dryocoetes confusus

Ips hauseri

Ips subelongatus

Malacosoma disstria

Melampsora medusae

Orgyia pseudotsugata

Phellinus weirii

Polygraphus proximus

Sirex ermak

Tetropium gracilicorne

Plants for planting (except seeds) of Abies originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present

Plants for planting (except seeds) of Abies originating in countries

where Phytophthora ramorum is present

Free from soil according to EPPO Standard PM 3/54

AND

Harvested and imported only in the period between 1 October and 31 March

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

Grown according to EPPO Standard PM 5/8 on the phytosanitary measure

'plants grown under complete physical isolation'

Pest-free area for Phytophthora ramorum

Pest-free place of production for Phytophthora ramorum and appropriate buffer zone with regular surveys and exclusion measures for running water

Cut branches (including cut Christmas trees without roots or soil) of Abies originating in countries where any of the following pests is present.

Acleris gloverana

Acleris variana

Arceuthobium abietinum

Arceuthobium douglasii

Pest-free area for the relevant pests listed in the left column

Arceuthobium laricis

Choristoneura freemani

Choristoneura fumiferana

Dryocoetes confusus

Malacosoma disstria

Melampsora medusae

Phellinus weirii

Orgyia pseudotsugata

Polygraphus proximus

Tetropium gracilicorne

Cut branches (including cut Christmas trees without roots or soil) of Abies originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present

Harvested and imported only in the period between 1 October and 31

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

Originating from plants grown according to EPPO Standard PM5/8 on the phytosanitary measure 'plants grown under complete physical isola-

Wood (except packaging wood) of Abies originating in countries where the following Monochamus spp. (vectors of Bursaphelenchus xylophilus) are present:

Round wood and sawn wood of Abies originating in countries where Gnathotrichus sulcatus is present other than harvesting wood residues,

processing wood residues, wood chips and hogwood

Monochamus alternatus Monochamus marmorator Monochamus obtusus Monochamus scutellatus Monochamus titillator

Pest-free area for specified Monochamus spp.

Debarked and heat-treated according to EPPO Standard PM 10/6

Treated with ionizing radiation according to EPPO Standard PM 10/8

Appropriate fumigation, details to be specified on the PC

Transported outside of specified Monochamus spp. flight period

Not transported through areas infested with specified Monochamus spp.

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Round wood (except packaging wood) of Abies originating in countries where Tetropium gracilicorne is present

Round wood (except packaging wood) of Abies originating in countries

where Sirex ermak is present

Debarked and heat-treated according to EPPO Standard PM 10/6

Treated with ionizing radiation according to EPPO Standard PM 10/8

Appropriate fumigation, details to be specified on the PC

Pest-free area for Tetropium gracilicorne

Transported outside of Tetropium gracilicorne flight period

Not transported through areas infested with Tetropium gracilicorne

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Sirex ermak

Transported outside of Sirex ermak flight period

Not transported through areas infested with Sirex ermak

Transported closed, to prevent infestation

Round wood (except packaging wood) of Abies originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present

Round wood (except packaging wood) of Abies other than harvesting

Sawn wood (except packaging wood) of Abies originating in countries

Sawn wood (except packaging wood) of Abies originating in countries

inating in countries where Dryocoetes confusus, Ips hauseri, Ips

subelongatus or Polygraphus proximus is present

where Tetropium gracilicorne is present

where Sirex ermak is present

wood residues, processing wood residues, wood chips and hogwood orig-

Debarked

Harvested and imported only in the period between 1 October and 31

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Bark-free

or

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Dryocoetes confusus, Ips hauseri, Ips subelongatus

and Polygraphus proximus

Transported outside of Dryocoetes confusus, Ips hauseri, Ips subelongatus and Polygraphus proximus flight period

Not transported through areas infested with Dryocoetes confusus, Ips

hauseri, Ips subelongatus and Polygraphus proximus

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Tetropium gracilicorne

Transported outside of Tetropium gracilicorne flight period

Not transported through areas infested with Tetropium gracilicorne

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Sirex ermak

Transported outside of Sirex ermak flight period

is present

Harvesting wood residues, processing wood residues, wood chips and hogwood of Abies originating in countries where Gnathotrichus sulcatus

Harvesting wood residues, processing wood residues, wood chips and hogwood of Abies originating in countries where Dryocoetes confusus, Ips hauseri, Ips subelongatus or Polygraphus proximus is present

Not transported through areas infested with Sirex ermak

Transported closed, to prevent infestation

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each

OR

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Produced from debarked wood

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OR

Pest-free area for Dryocoetes confusus, Ips hauseri, Ips subelongatus and Polygraphus proximus

Transported outside of Dryocoetes confusus, Ips hauseri, Ips subelongatus and Polygraphus proximus flight period

Not transported through areas infested with Dryocoetes confusus, Ips hauseri, Ips subelongatus and Polygraphus proximus

Transported closed, to prevent infestation

Isolated bark of Abies originating in countries where any of the follow- Pest-free area for the relevant pests listed in the left column ing pests is present:

Choristoneura freemani

Choristoneura fumiferana

Isolated bark of Abies originating in countries where Dryocoetes confusus, Gnathotrichus sulcatus, Ips hauseri, Ips subelongatus, Malacosoma disstria, Polygraphus proximus or Tetropium gracilicorne are present

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile each piece of the bark

OR

Pest-free area for relevant pests listed in the left column

Transported outside of the flight period of the relevant pests listed in the

Not transported through areas infested with relevant pests listed in the left column

Transported closed, to prevent infestation

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for specified Monochamus spp.

Transported outside of specified Monochamus spp. flight period

Not transported through areas infested with specified Monochamus spp.

Transported closed, to prevent infestation

Isolated bark of Abies originating in countries where the following Monochamus spp. (vectors of Bursaphelenchus xylophilus) are present: Monochamus alternatus Monochamus marmorator

Monochamus obtusus Monochamus scutellatus

Monochamus titillator

Requirements for Chamaecyparis

Plants for planting (except seeds) of *Chamaecyparis* originating in countries Pest-free area for Oligonychus perditus where Oligonychus perditus is present Place of production freedom for Oligonychus perditus Plants for planting (except seeds) of Chamaecyparis originating in countries Pest-free area for Phytophthora lateralis and Phytophthora ramorum where Phytophthora lateralis or Phytophthora ramorum is present Place of production freedom and appropriate buffer zone for Phytophthora lateralis and Phytophthora ramorum Pest-free place of production for Phytophthora lateralis and Phytophthora ramorum and exclusion measures for running water Requirements for Cryptomeria Plants for planting (except seeds) of Cryptomeria originating Pest-free area for Oligonychus perditus in countries where Oligonychus perditus is present Place of production freedom for Oligonychus perditus Requirements for Juniperus Plants for planting (except seeds) of Juniperus originating in countries Place of production freedom for Oligonychus perditus where Oligonychus perditus is present Pest-free area for Oligonychus perditus Pest-free area for the relevant pests listed in the left column Plants for planting (except seeds) of Juniperus originating in countries where Gymnosporangium clavipes, Gymnosporangium globosum, Gymnosporangium juniperi-virginianae or Gymnosporangium Pest-free place of production for the relevant pests listed in the left yamadae are present column Post entry quarantine for at least one growing season Cut branches (including cut Christmas trees without roots Pest-free area for the relevant pests listed in the left column or soil) of Juniperus originating in countries where Gymnosporangium clavines, Gymnosporangium globosum, Pest-free place of production for the relevant pests listed in the Gymnosporangium juniperi-virginianae or Gymnosporangium vleft column yamadae are present Requirements for Larix Plants for planting (except seeds) of Larix originating Pest-free area for the relevant pests listed in the left column in countries where any of the following pests is present: Arceuthobium pusillum Botryosphaeria laricina Choristoneura freemani Choristoneura fumiferana Ips hauseri Ips subelongatus Malacosoma disstria Melampsora medusae Mycosphaerella laricis-leptolepidis Orgyia pseudotsugata Polygraphus proximus

Pest-free area for Strobilomyia viaria

Free from cones and grown according to EPPO Standard PM 3/54

Growing Plants in growing medium prior to export

(continued)

Plants for planting (except seeds) of Larix (except seedlings)

countries where Strobilomyia viaria is present

accompanied by soil or other growing medium originating in

Scolytus morawitzi Sirex ermak

Tetropium gracilicorne Xylotrechus altaicus Plants for planting (except seeds) of *Larix* originating in countries where *Dendrolimus sibiricus* or *Dendrolimus superans* is present

Free from soil according to EPPO Standard PM 3/54

AND

Harvested and imported only in the period between 1 October and 31 March

or

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

OI

Grown according to EPPO Standard PM5/8 on the phytosanitary measure 'plants

grown under complete physical isolation'

Plants for planting (except seeds) of *Larix* originating in countries where *Phytophthora ramorum* is present

Pest-free area for *Phytophthora ramorum*

or

Place of production freedom and appropriate buffer zone for Phytophthora

ramorum

OI

Pest-free place of production for *Phytophthora ramorum* and exclusion measures for running water

Cut branches of Larix originating in countries where any of

the following pests is present:

Arceuthobium pusillum

Botryosphaeria laricina

Choristoneura freemani

Choristoneura fumiferana

Malacosoma disstria

Melampsora medusae

Mycosphaerella laricis-leptolepidis

Orgyia pseudotsugata

Polygraphus proximus

Tetropium gracilicorne

Xylotrechus altaicus

Cut branches of Larix originating in countries where

Dendrolimus sibiricus or Dendrolimus superans is present

Pest-free area for the relevant pests listed in the left column

Harvested and imported only in the period between 1 October and 31 March

Pest-free area for $Dendrolimus\ sibiricus\$ and $Dendrolimus\ superans$

or

Originating from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Wood (except packaging wood) of *Larix* originating in countries where the following *Monochamus* spp. (vectors of *Bursaphelenchus xylophilus*) are present:

Monochamus alternatus

Monochamus scutellatus

Debarked and heat-treated according to EPPO Standard PM 10/6 or

Treated with ionizing radiation according to EPPO Standard PM 10/8 or

Appropriate fumigation, details to be specified on the PC

OR

Pest-free area for specified Monochamus spp.

AND

Transported outside of specified Monochamus spp. flight period

or

Not transported through areas infested with specified Monochamus spp.

or

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

or

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Gnathotrichus sulcatus

AND

Transported outside of Gnathotrichus sulcatus flight period

or

Not transported through areas infested with Gnathotrichus sulcatus

.

Transported closed, to prevent infestation

Debarked and heat-treated according to EPPO Standard PM 10/6

Wood (except packaging wood, harvesting wood residues, processing wood residues, wood chips and hogwood) of *Larix* originating in countries where *Gnathotrichus sulcatus* is present

Round wood (except packaging wood) of *Larix* originating in countries where *Tetropium gracilicorne* or *Xylotrechus altaicus* is present

Treated with ionizing radiation according to EPPO Standard PM 10/8

OF

Appropriate fumigation, details to be specified on the PC

OR

Pest-free area for Tetropium gracilicorne

AND

Transported outside of *Tetropium gracilicorne* and *Xylotrechus altaicus* flight period

or

Not transported through areas infested with *Tetropium gracilicorne* and *Xylotrechus altaicus*

or

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

01

Appropriate fumigation, details to be specified on the phytosanitary certificate

...

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Sirex ermak

AND

Transported outside of Sirex ermak flight period

or

Not transported through areas infested with Sirex ermak

or

Transported closed, to prevent infestation

Round wood (except packaging wood) of *Larix* originating in countries where *Dendrolimus sibiricus* or *Dendrolimus superans* is present

Round wood (except packaging wood) of Larix originating in countries

wood residues, wood chips and hogwood

where *Ips hauseri*, *Ips subelongatus*, *Polygraphus proximus* or *Scolytus morawitzi* is present other than harvesting wood residues, processing

Round wood (except packaging wood) of Larix originating in countries

where Sirex ermak is present

Debarked

Harvested and imported only in the period between 1 October and 31

March

or

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

OI

Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

Bark-free

or

Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

or

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Ips hauseri, Ips subelongatus, Polygraphus proximus

and Scolytus morawitzi

AND

Transported outside of *Ips hauseri*, *Ips subelongatus*, *Polygraphus*

proximus and Scolytus morawitzi flight period

or

Not transported through areas infested with *Ips hauseri*, *Ips subelongatus*, *Polygraphus proximus* and *Scolytus morawitzi*

or

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

or

Treated with ionizing radiation according to EPPO Standard PM 10/8

(continued)

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Sawn wood (except packaging wood) of *Larix* originating in countries where *Tetropium gracilicorne* or *Xylotrechus altaicus* is present

Sawn wood (except packaging wood) of Larix originating in countries

Harvesting wood residues, processing wood residues, wood chips and

Harvesting wood residues, processing wood residues, wood chips and

hogwood of Larix originating in countries where Ips hauseri, Ips subelongatus, Polygraphus proximus or Scolytus morawitzi is present

hogwood of Larix originating in countries where Gnathotrichus sulcatus

where Sirex ermak is present

is present

Pest-free area for Tetropium gracilicorne and Xylotrechus altaicus

Transported outside of Tetropium gracilicorne and Xylotrechus altaicus flight period

Not transported through areas infested with Tetropium gracilicorne and Xylotrechus altaicus

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Sirex ermak

Transported outside of Sirex ermak flight period

Not transported through areas infested with Sirex ermak

Transported closed, to prevent infestation

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OR

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Produced from debarked wood

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Pest-free area for Ips hauseri, Ips subelongatus, Polygraphus proximus and Scolytus morawitzi

Transported outside of Ips hauseri, Ips subelongatus, Polygraphus proximus and Scolytus morawitzi flight period

Not transported through areas infested with Ips hauseri, Ips subelongatus, Polygraphus proximus and Scolytus morawitzi

Transported closed, to prevent infestation

Isolated bark of Larix originating in countries where any of the following pests is present:

Choristoneura freemani

Choristoneura fumiferana

Isolated bark of Larix originating in countries where Dryocoetes confusus, Gnathotrichus sulcatus, Ips hauseri, Ips subelongatus, Malacosoma disstria, Polygraphus proximus, Scolytus morawitzi, Tetropium gracilicorne or Xylotrechus altaicus is present

Pest-free area for the relevant pests listed in the left column

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for the relevant pests listed in the left column

Transported outside of the flight period of the relevant pests listed in the

left column

Not transported through areas infested with the relevant pests listed in the left column

Transported closed, to prevent infestation

Isolated bark of Larix originating in countries where the following Monochamus spp. (vectors of Bursaphelenchus xylophilus) are present:

Monochamus alternatus

Monochamus scutellatus

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for specified Monochamus spp.

Transported outside of specified Monochamus spp. flight period

Not transported through areas infested with specified Monochamus spp.

Transported closed, to prevent infestation

Requirements for Picea

Plants for planting (except seeds) of Picea originating in countries where any of the following pests is present:

Pest-free area for the relevant pests listed in the left column

Acleris gloverana

Acleris variana

Arceuthobium abietinum

Arceuthobium douglasii

Arceuthobium laricis

Choristoneura freemani

Choristoneura fumiferana

Chrysomyxa arctostaphyli

Dendroctonus frontalis

Dendroctonus rufipennis

Ips hauseri

Ips subelongatus

Malacosoma disstria

Melampsora medusae

Orgyia pseudotsugata

Pissodes nemorensis

Pissodes strobi

Polygraphus proximus

Sirex ermak

Tetropium gracilicorne

Phytophthora ramorum is present

Plants for planting (except seeds) of Picea, originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present

Plants for planting (except seeds) of Picea originating in countries where

Free from soil according to EPPO Standard PM 3/54

Harvested and imported only in the period between 1 October and 31

March

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

Grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Pest-free area for Phytophthora ramorum

or

Place of production freedom and appropriate buffer zone for

Phytophthora ramorum

Pest-free place of production for Phytophthora ramorum and exclu-

sion measures for running water

Pest-free area for the relevant pests listed in the left column

Cut branches (including cut Christmas trees without roots or soil) of *Picea* originating in countries where any of the following pests is present:

Acleris gloverana

Acleris variana

Arceuthobium abietinum

Arceuthobium douglasii

Arceuthobium laricis

Choristoneura freemani

Choristoneura fumiferana

Dendroctonus frontalis

Dendroctonus rufipennis

Malacosoma disstria

Orgyia pseudotsugata

Pissodes nemorensis

Pissodes strobi

Polygraphus proximus

Tetropium gracilicorne

Cut branches (including cut Christmas trees without roots or soil) of Picea originating in countries where Chrysomyxa arctostaphyli or Melampsora medusae is present

Cut branches (including cut Christmas trees without roots or soil) of Picea originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present Pest-free area for Chrysomyxa arctostaphyli and Melampsora medusae

Harvested and imported only in the period between 1 October and 31

or

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans or

Originating from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Wood (except packaging wood) of *Picea* originating in countries where following *Monochamus* spp. (vectors of *Bursaphelenchus xylophilus*) are present:

Wood (except packaging wood, harvesting wood residues, processing

tries where Gnathotrichus sulcatus is present

wood residues, wood chips and hogwood) of Picea originating in coun-

Monochamus alternatus Monochamus marmorator Monochamus scutellatus Monochamus titillator Debarked and heat-treated according to EPPO Standard PM 10/6 or

Treated with ionizing radiation according to EPPO Standard PM 10/8 or

Appropriate fumigation, details to be specified on the PC

Pest-free area for specified Monochamus spp.

AND

Transported outside of specified Monochamus spp. flight period or

Not transported through areas infested with specified *Monochamus* spp.

or

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

OF

Appropriate fumigation, details to be specified on the PC

or

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Gnathotrichus sulcatus

AND

Transported outside of Gnathotrichus sulcatus flight period

or

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Round wood (except packaging wood) of *Picea* originating in countries where *Pissodes nemorensis*, *Pissodes strobi* or *Tetropium gracilicorne* is present

Debarked and heat-treated according to EPPO Standard PM 10/6 or

Treated with ionizing radiation according to EPPO Standard PM 10/8 or

Appropriate fumigation, details to be specified on the PC Pest-free area for the relevant pests listed in the left column Transported outside of the flight period of the relevant pests listed in Not transported through areas infested with the relevant pests listed in the left column Transported closed, to prevent infestation Round wood (except packaging wood) of Picea originating in countries Heat-treated according to EPPO Standard PM 10/6 where Sirex ermak is present Fumigated according to EPPO Standard PM 3/51 Treated with ionizing radiation according to EPPO Standard PM 10/8 Pest-free area for Sirex ermak AND Transported outside of Sirex ermak flight period Not transported through areas infested with Sirex ermak Transported closed, to prevent infestation Round wood (except packaging wood) of Picea originating in countries Debarked where Dendrolimus sibiricus or Dendrolimus superans is present Harvested and imported only in the period between 1 October and 31 March Pest-free area for Dendrolimus sibiricus and Dendrolimus superans Heat-treated according to EPPO Standard PM 10/6 Round wood (except packaging wood) of Picea originating in countries where Dendroctonus frontalis, Dendroctonus rufipennis, Ips hauseri, Ips Heat-treated according to EPPO Standard PM 10/6 subelongatus or Polygraphus proximus is present other than harvesting wood residues, processing wood residues, wood chips and hogwood Appropriate fumigation, details to be specified on the PC Treated with ionizing radiation according to EPPO Standard PM 10/8 OR Pest-free area for the relevant pests listed in the left column Transported outside of the flight period of the relevant pests listed in the left column Not transported through areas infested with the relevant pests listed in

Sawn wood (except packaging wood) of Picea originating in countries where Tetropium gracilicorne is present

Heat-treated according to EPPO Standard PM 10/6

the left column

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Tetropium gracilicorne

Transported closed, to prevent infestation

Transported outside of Tetropium gracilicorne flight period

Not transported through areas infested with Tetropium gracilicorne

Transported closed, to prevent infestation

is present

Sawn wood (except packaging wood) of *Picea* originating in countries where *Sirex ermak* is present

Harvesting wood residues, processing wood residues, wood chips and

Harvesting wood residues, processing wood residues, wood chips and

nemorensis, Pissodes strobi or Polygraphus proximus is present

hogwood of *Picea* originating in countries where *Dendroctonus frontalis*, *Dendroctonus rufipennis*, *Ips hauseri*, *Ips subelongatus*, *Pissodes*

hogwood of Picea originating in countries where Gnathotrichus sulcatus

Heat-treated according to EPPO Standard PM 10/6

C

Appropriate fumigation, details to be specified on the PC

OI

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Sirex ermak

AND

Transported outside of Sirex ermak flight period

or

Not transported through areas infested with Sirex ermak

01

Transported closed, to prevent infestation

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OF

Pest-free area for Gnathotrichus sulcatus

AND

Transported outside of Gnathotrichus sulcatus flight period

OI

Not transported through areas infested with Gnathotrichus sulcatus

OI

Transported closed, to prevent infestation

Produced from debarked wood

or

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OR

Pest-free area for the relevant pests listed in the left column

AND

Transported outside of the flight period of the relevant pests listed in the left column

or

Not transported through areas infested with the relevant pests listed in

the left column

or

Transported closed, to prevent infestation

Isolated bark of *Picea* originating in countries where any of the following pests is present:

Pest-free area for the relevant pests listed in the left column:

Choristoneura freemani

Choristoneura fumiferana

Isolated bark of *Picea* originating in countries where *Dendroctonus* frontalis, *Dendroctonus rufipennis*, *Gnathotrichus sulcatus*, *Ips hauseri*, *Ips subelongatus*, *Malacosoma disstria*, *Pissodes nemorensis*, *Pissodes strobi*, *Polygraphus proximus* or *Tetropium gracilicorne* is present

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for the relevant pests listed in the left column

AND

Transported outside of the flight period of the relevant pests listed in the left column

or

Not transported through areas infested with the relevant pests listed in the left column

or

Transported closed, to prevent infestation

Isolated bark of *Picea* originating in countries where following

Monochamus spp. (vectors of Bursaphelenchus xylophilus) are present:

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each

Monochamus alternatus Monochamus marmorator Monochamus saltuarius Monochamus scutellatus

Monochamus titillator

piece of the bark

OR

Pest-free area for specified Monochamus spp.

ANI

Transported outside of specified Monochamus spp. flight period

OI

Not transported through areas infested with specified Monochamus spp.

or

Transported closed, to prevent infestation

Requirements for Pinus

Plants for planting (except seeds) of *Pinus* originating in countries where any of the following pests is present:

Pest-free area for the relevant pests listed in the left column

Arceuthobium americanum

Arceuthobium campylopodum

Arceuthobium laricis

Arceuthobium minutissimum

Arceuthobium occidentale

Arceuthobium pusillum

Arceuthobium tsugense

Arceuthobium vaginatum

Arceumobium vaginaiu

Atropellis pinicola

Atropellis piniphila

Choristoneura fumiferana

Cronartium coleosporioides

Cronartium comandrae

Cronartium comptoniae

Cronartium fusiforme

Cronartium himalayense

Cronartium kamtschaticum

Cronartium quercuum

Dendroctonus adjunctus

Dendroctonus brevicomis

Dendroctonus frontalis

 $Dendroctonus\ ponderosae$

Endocronartium harknessii Fusarium circinatum

Ips calligraphus

Ips confusus

Ips grandicollis

Ips lecontei

Ips paraconfusus

Ips pini

Ips plastographus

Ips hauseri

Ips subelongatus

Lecanosticta acicola

Malacosoma disstria

 $Melampsora\ medusae$

Mycosphaerella gibsonii Ophiostoma wageneri

Orgyia pseudotsugata

Pissodes nemorensis

Pissodes strobi

Pissodes terminalis

Polygraphus proximus

Sirex ermak

Tetropium gracilicorne

Plants for planting (except seeds) of *Pinus*, originating in countries where *Dendrolimus sibiricus* or *Dendrolimus superans* is present Free from soil according to EPPO Standard PM 3/54 AND

Harvested and imported only in the period between 1 October and 31

or

Pest-free area for $Dendrolimus\ sibiricus\$ and $Dendrolimus\$ superans

or

Grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Seeds of *Pinus* originating in countries where *Fusarium circinatum* is present

Pest-free area for Fusarium circinatum

Cut branches (including cut Christmas trees without roots or soil) of

Pinus originating in countries where any of the following pests is present:

Arceuthobium americanum

Arceuthobium campylopodum

Arceuthobium laricis

Arceuthobium minutissimum

Arceuthobium occidentale

Arceuthobium pusillum

Arceuthobium tsugense

Arceuthobium vaginatum

Atropellis pinicola

Atropellis piniphila

Choristoneura fumiferana

Cronartium coleosporioides

Cronartium comandrae

Cronartium comptoniae

Cronartium fusiforme

Cronartium himalayense

Cronartium kamtschaticum

Cronartium quercuum

Dendroctonus adjunctus

Dendroctonus brevicomis

Dendroctonus frontalis

Dendroctonus ponderosae

Endocronartium harknessii

Fusarium circinatum

Ips calligraphus

Ips confusus

 $Ips\ grandicollis$

Ips lecontei

Ips paraconfusus

Ips pini

Ips plastographus

Ips hauseri

Ips subelongatus

Lecanosticta acicola

Malacosoma disstria

Melampsora medusae

Mycosphaerella gibsonii

Ophiostoma wageneri

Orgyia pseudotsugata

Pissodes nemorensis

Pissodes strobi

Pissodes terminalis

Polygraphus proximus

Tetropium gracilicorne

Pest-free area for the relevant pests listed in the left column

Cut branches (including cut Christmas trees without roots or soil) of Pinus originating in countries where Dendrolimus sibiricus or Dendrolimus superans is present

Cones of Pinus originating in countries where Fusarium circinatum is

Harvested and imported only in the period between 1 October and 31 March

or

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

or

Originate from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Pest-free area for Fusarium circinatum

OR

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the cone

Wood (except packaging wood) of *Pinus* originating in countries where following *Monochamus* spp. (vectors of *Bursaphelenchus xylophilus*) are present:

Monochamus alternatus
Monochamus carolinensis
Monochamus mutator
Monochamus nitens
Monochamus notatus

present

Monochamus obtusus Monochamus scutellatus

Monochamus titillator

Wood (except packaging wood) of *Pinus* originating in countries where *Cronartium fusiforme* or *Cronartium quercuum* is present

Wood (except packaging wood, harvesting wood residues, processing wood residues, wood chips and hogwood) of *Pinus* originating in countries where *Gnathotrichus sulcatus* is present other than harvesting wood residues, processing wood residues, wood chips and hogwood

Round wood (except packaging wood) of *Pinus* originating in countries where *Atropellis pinicola* or *Fusarium circinatum* is present

Round wood (except packaging wood) of *Pinus* originating in countries where *Pissodes nemorensis*, *Pissodes strobi*, *Pissodes terminalis* or *Tetropium gracilicorne* is present

Debarked and heat-treated according to EPPO Standard PM 10/6

Treated with ionizing radiation according to EPPO Standard PM 10/8

Appropriate fumigation, details to be specified on the PC

0

Pest-free area for specified Monochamus spp.

AND

Transported outside of specified Monochamus spp. flight period

or

Not transported through areas infested with specified *Monochamus* spp.

or

Transported closed, to prevent infestation

Pest-free area for Cronartium fusiforme and Cronartium quercuum

or

Debarked

or

Heat-treated according to EPPO Standard PM 10/6 Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

01

Treated with ionizing radiation according to EPPO Standard PM 10/8

OR

Pest-free area for Gnathotrichus sulcatus

AND

Transported outside of Gnathotrichus sulcatus flight period

or

Not transported through areas infested with Gnathotrichus sulcatus

or

Transported closed, to prevent infestation

Pest-free area for Atropellis pinicola and Fusarium circinatum

or

Heat-treated according to EPPO Standard PM 10/6

Debarked and heat-treated according to EPPO Standard PM 10/6

or

Treated with ionizing radiation according to EPPO Standard PM 10/8

or

Appropriate fumigation, details to be specified on the PC OR

OF

Pest-free area for the relevant pests listed in the left column

AND

Transported outside of the flight period of the relevant pests listed in the left column

or

Not transported through areas infested with the relevant pests listed in the left column

Transported closed, to prevent infestation Round wood (except packaging wood) of Pinus originating in countries Heat-treated according to EPPO Standard PM 10/6 where Sirex ermak is present Appropriate fumigation, details to be specified on the PC Treated with ionizing radiation according to EPPO Standard PM 10/8 Pest-free area for Sirex ermak Transported outside of Sirex ermak flight period Not transported through areas infested with Sirex ermak Transported closed, to prevent infestation Round wood (except packaging wood) of Pinus originating in countries Debarked where Dendrolimus sibiricus or Dendrolimus superans is present Harvested and imported only in the period between 1 October and 31 March or Pest-free area for Dendrolimus sibiricus and Dendrolimus superans Heat-treated according to EPPO Standard PM 10/6 Round wood (except packaging wood) of Pinus originating in countries Bark-free where Dendroctonus adjunctus, Dendroctonus brevicomis, Dendroctonus Heat-treated according to EPPO Standard PM 10/6 frontalis, Dendroctonus ponderosae, Ips calligraphus, Ips confusus, Ips grandicollis, Ips lecontei, Ips paraconfusus, Ips pini, Ips plastographus, Ips hauseri, Ips subelongatus or Polygraphus proximus is present other Appropriate fumigation, details to be specified on the PC than harvesting wood residues, processing wood residues, wood chips Treated with ionizing radiation according to EPPO Standard PM 10/8 and hogwood Pest-free area for the relevant pests listed in the left column Transported outside of the flight period of the relevant pests listed in the left column Not transported through areas infested with the relevant pests listed in the left column Transported closed, to prevent infestation Sawn wood (except packaging wood) of Pinus originating in countries Heat-treated according to EPPO Standard PM 10/6 where Tetropium gracilicorne is present Appropriate fumigation, details to be specified on the PC Treated with ionizing radiation according to EPPO Standard PM 10/8 Pest-free area for Tetropium gracilicorne Transported outside of Tetropium gracilicorne flight period Not transported through areas infested with Tetropium gracilicorne Transported closed, to prevent infestation Sawn wood (except packaging wood) of Pinus originating in countries Heat-treated according to EPPO Standard PM 10/6 where Sirex ermak is present Appropriate fumigation, details to be specified on the PC Treated with ionizing radiation according to EPPO Standard PM 10/8 Pest-free area for Sirex ermak

(continued)

Transported outside of Sirex ermak flight period

Not transported through areas infested with Sirex ermak

Harvesting wood residues, processing wood residues, wood chips and hogwood of Pinus originating in countries where Gnathotrichus sulcatus is present

Harvesting wood residues, processing wood residues, wood chips and

Ips hauseri, Ips subelongatus, Pissodes nemorensis, Pissodes strobi,

hogwood of Pinus originating in countries where Dendroctonus adjunctus, Dendroctonus brevicomis, Dendroctonus frontalis,

Dendroctonus ponderosae, Ips calligraphus, Ips confusus, Ips grandicollis, Ips lecontei, Ips paraconfusus, Ips pini, Ips plastographus,

Pissodes terminalis or Polygraphus proximus is present

Transported closed, to prevent infestation

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Appropriate fumigation, details to be specified on the PC

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Produced from debarked wood

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OR

Pest-free area for the relevant pests listed in the left column

Transported outside of the flight period of the relevant pests listed in the left column

Not transported through areas infested with the relevant pests listed in the left column

Transported closed, to prevent infestation

Isolated bark of Pinus originating in countries where Choristoneura fumiferana is present

Isolated bark of Pinus originating in countries where Cronartium fusiforme, Cronartium quercuum, Dendroctonus adjunctus, Dendroctonus brevicomis, Dendroctonus frontalis, Dendroctonus ponderosae, Gnathotrichus sulcatus, Ips calligraphus, Ips confusus, Ips grandicollis, Ips lecontei, Ips paraconfusus, Ips pini, Ips plastographus, Ips subelongatus, Malacosoma disstria, Pissodes nemorensis, Pissodes strobi, Pissodes terminalis, Polygraphus proximus or Tetropium gracilicorne is present

Pest-free area for Choristoneura fumiferana

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for the relevant pests listed in the left column

AND

Transported outside of the flight period of the relevant pests listed in

Not transported through areas infested with the relevant pests listed in the left column

Transported closed, to prevent infestation

Pest-free area for the relevant pests listed in the left column

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for specified Monochamus spp.

Transported outside of specified Monochamus spp. flight period

Not transported through areas infested with specified Monochamus spp.

Isolated bark of Pinus originating in countries where Atropellis pinicola or Atropellis piniphila is present

Isolated bark of Pinus originating in countries where the following Monochamus spp. (vectors of Bursaphelenchus xylophilus) are present: Monochamus alternatus

Monochamus carolinensis Monochamus mutator Monochamus nitens Monochamus notatus Monochamus obtusus Monochamus scutellatus Monochamus titillator

or

Isolated bark of *Pinus* originating in countries where *Fusarium circinatum* is present

Transported closed, to prevent infestation Pest-free area for *Fusarium circinatum*

or

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

Requirements for Pseudotsuga

Plants for planting (except seeds) of *Pseudotsuga* originating in countries where any of the following pests is present:

Acleris gloverana

Arceuthobium douglasii

Botryosphaeria laricina

Choristoneura freemani

Choristoneura fumiferana

Dendroctonus pseudotsugae

Malacosoma disstria

Melampsora medusae

Ophiostoma wageneri

Orgyia pseudotsugata

Phellinus weirii

Plants for planting (except seeds) of *Pseudotsuga menziesii* originating in countries where *Dendrolimus sibiricus* is present

Pest-free area for the relevant pests listed in the left column

Free from soil according to EPPO Standard PM 3/54

AND

Harvested and imported only in the period between 1 October and 31

March

or

Pest-free area for Dendrolimus sibiricus

or

Grown according to EPPO Standard PM 5/8 on the phytosanitary mea-

sure 'plants grown under complete physical isolation'

Plants for planting (including seeds) of *Pseudotsuga menziesii* originating in countries where *Fusarium circinatum* is present

Plants for planting (except seeds) of *Pseudotsuga* originating in countries

where Phytophthora ramorum is present

Pest-free area for Phytophthora ramorum

Pest-free area for Fusarium circinatum

or

Place of production freedom and appropriate buffer zone for

Pest-free area for the relevant pests listed in the left column

 $Phytophthora\ ramorum$

or

Pest-free place of production for $Phytophthora\ ramorum\ and\ exclusion$

measures for running water

Cut branches (including cut Christmas trees without roots or soil) of

Pseudotsuga originating in countries where any of the following pests is present:

Acleris gloverana

Arceuthobium douglasii

Botryosphaeria laricina

Choristoneura freemani

Choristoneura fumiferana

Dendroctonus pseudotsugae

Malacosoma disstria

Ophiostoma wageneri

Orgyia pseudotsugata

Cut branches (including cut Christmas trees without roots or soil) of Pseudotsuga menziesii originating in countries where Dendrolimus sibiricus is present Harvested and imported only in the period between 1 October and 31 March

or

Pest-free area for Dendrolimus sibiricus

or

Originating from plants grown according to EPPO Standard PM 5/8 on the phytosanitary measure 'plants grown under complete physical isolation'

Cut branches (including cut Christmas trees without roots or soil) of Pseudotsuga originating in countries where Melampsora medusae is

Cut branches (including cut Christmas trees without roots or soil) of Pseudotsuga menziesii originating in countries where Fusarium circinatum is present

Pest-free area for Melampsora medusae

Pest-free area for Fusarium circinatum

Wood (except packaging wood) of Pseudotsuga originating in countries where Monochamus obtusus (vector of Bursaphelenchus xylophilus) is present

Wood (except packaging wood, harvesting wood residues, processing

Round wood (except packaging wood) of Pseudotsuga originating in

countries where Dendroctonus pseudotsugae is present other than harvesting wood residues, processing wood residues, wood chips and hog-

countries where Gnathotrichus sulcatus is present

wood

wood residues, wood chips and hogwood) of Pseudotsuga originating in

Debarked and heat-treated according to EPPO Standard PM 10/6

Treated with ionizing radiation according to EPPO Standard PM 10/8

Appropriate fumigation, details to be specified on the PC

Pest-free area for specified Monochamus spp.

AND

Transported outside of Monochamus obtusus flight period

Not transported through areas infested with Monochamus obtusus

Transported closed, to prevent infestation

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Bark-free

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Dendroctonus pseudotsugae

Transported outside of Dendroctonus pseudotsugae flight period

Not transported through areas infested with Dendroctonus

pseudotsugae

Transported closed, to prevent infestation

Round wood (except packaging wood) of Pseudotsuga menziesii originating in countries where Dendrolimus sibiricus is present

Debarked

Harvested and imported only in the period between 1 October and 31

Pest-free area for Dendrolimus sibiricus

Heat-treated according to EPPO Standard PM 10/6

Round wood (except packaging wood) of Pseudotsuga menziesii originating in countries where Fusarium circinatum is present

Pest-free area for Fusarium circinatum

Heat-treated according to EPPO Standard PM 10/6

Harvesting wood residues, processing wood residues, wood chips and hogwood of Pseudotsuga originating in countries where Gnathotrichus sulcatus is present

Harvesting wood residues, processing wood residues, wood chips and

hogwood of Pseudotsuga originating in countries where Dendroctonus

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Pest-free area for Gnathotrichus sulcatus

AND

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Produced from debarked wood

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Pest-free area for Dendroctonus pseudotsugae

AND

Transported outside of Dendroctonus pseudotsugae flight period

Not transported through areas infested with Dendroctonus

pseudotsugae

Transported closed, to prevent infestation

Isolated bark of Pseudotsuga originating in countries where any of the following pests is present:

Choristoneura freemani

pseudotsugae is present

Choristoneura fumiferana

Fusarium circinatum is present

Isolated bark of Pseudotsuga originating in countries where Dendroctonus pseudotsugae or Gnathotrichus sulcatus is present Pest-free area for the relevant pests listed in the left column

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for Dendroctonus pseudotsugae and Gnathotrichus sulcatus

Transported outside of Dendroctonus pseudotsugae and Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation Pest-free area for Fusarium circinatum

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each

piece of the bark

Isolated bark of Pseudotsuga originating in countries where Monochamus obtusus (vectors of Bursaphelenchus xylophilus) is present:

Isolated bark of Pseudotsuga menziesii originating in countries where

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the bark

OR

Pest-free area for Monochamus obtusus

AND

Transported outside of Monochamus obtusus flight period

Not transported through areas infested with Monochamus obtusus

Transported closed, to prevent infestation

Requirements for Taxus

Plants for planting (except seeds) of <i>Taxus</i> originating in countries where Oligonychus perditus is present	Pest-free area for Oligonychus perditus or
	Pest-free place of production for Oligonychus perditus
Plants for planting (except seeds) of <i>Taxus brevifolia</i> originating in countries where <i>Phytophthora lateralis</i> is present	Pest-free area for <i>Phytophthora lateralis</i> or Pest-free place of production and appropriate buffer zone for <i>Phytophthora lateralis</i>
Plants for planting (except seeds) of <i>Taxus</i> originating in countries where <i>Phytophthora ramorum</i> is present	Pest-free area for <i>Phytophthora ramorum</i> or Place of production freedom and appropriate buffer zone for <i>Phytophthora ramorum</i> or Pest-free place of production for <i>Phytophthora ramorum</i> and exclusion measures for running water

Requirements for Thuja

Plants for planting (except seeds) of Thuja originating in countries where	Pest-free area for Oligonychus perditus
Oligonychus perditus is present	or
	Pest-free place of production for Oligonychus perditus
Plants for planting of Thuja originating in countries where Sirex ermak is present	Pest-free area for Sirex ermak
Plants for planting (except seeds) of Thuja originating in countries where	Pest-free area for Phytophthora lateralis
Phytophthora lateralis is present	or
	Pest-free place of production and appropriate buffer zone for
	Phytophthora lateralis

Round wood (except packaging wood) of Thuja originating in countries where Sirex ermak is present

Heat-treated according to EPPO Standard PM 10/6

or

Appropriate fumigation, details to be specified on the PC

or

Treated with ionizing radiation according to EPPO

Standard PM 10/8

OR

Pest-free area for Sirex ermak

AND

Transported outside of Sirex ermak flight period

or

Not transported through areas infested with Sirex ermak

or

Transported closed, to prevent infestation

Requirements for Tsuga

Plants for planting (except seeds) of *Tsuga* originating in countries where any of the following pests is present:

Pest-free area for the relevant pests listed in the left column

Acleris gloverana

Arceuthobium laricis

Arceuthobium tsugense

 $Choristone ura\ free mani$

Choristoneura fumiferana

Melampsora farlowii

Melampsora medusae

 $Orgyia\ pseudotsugata$

Polygraphus proximus

Plants for planting (except seeds) of Tsuga originating in countries where

Sirex ermak is present

Pest-free area for Sirex ermak

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March

(continued)

Pest-free area for Dendrolimus sibiricus and Dendrolimus superans

Heat-treated according to EPPO Standard PM 10/6

Round wood (except packaging wood) of Tsuga originating in countries where Sirex ermak is present

Round wood (except packaging wood) of Tsuga originating in countries

dues, processing wood residues, wood chips and hogwood

where Polygraphus proximus is present other than harvesting wood resi-

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Sirex ermak

AND

Transported outside of Sirex ermak flight period

Not transported through areas infested with Sirex ermak

Transported closed, to prevent infestation

Bark-free

Heat-treated according to EPPO Standard PM 10/6

Appropriate fumigation, details to be specified on the PC

Treated with ionizing radiation according to EPPO Standard PM 10/8

Pest-free area for Polygraphus proximus

Transported outside of Polygraphus proximus flight period

Not transported through areas infested with Polygraphus proximus

Transported closed to prevent infestation

Produced from debarked wood

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

Pest-free area for Polygraphus proximus

Transported outside of Polygraphus proximus flight period

Not transported through areas infested with Polygraphus proximus

Transported closed, to prevent infestation

Harvesting wood residues, processing wood residues, wood chips and hogwood of Tsuga originating in countries where Gnathotrichus sulcatus is present

Harvesting wood residues, processing wood residues, wood chips and

hogwood of Tsuga originating in countries where Polygraphus proximus

Heat-treated to achieve a minimum temperature of 56°C for a minimum duration of 30 continuous minutes throughout the entire profile of each piece of the wood

OR

Pest-free area for Gnathotrichus sulcatus

Transported outside of Gnathotrichus sulcatus flight period

Not transported through areas infested with Gnathotrichus sulcatus

Transported closed, to prevent infestation

Isolated bark of Tsuga originating in countries where any of the following pests is present:

Pest-free area for the relevant pests listed in the left column

Choristoneura freemani Choristoneura fumiferana

is present

Transported outside of Gnathotrichus sulcatus and Polygraphus proximus flight period or Not transported through areas infested with Gnathotrichus sulcatus and Polygraphus proximus or Transported closed, to prevent infestation	Isolated bark of Tsuga originating in countries where Gnathotrichus sulcatus or Polygraphus proximus is present	period or Not transported through areas infested with <i>Gnathotrichus sulcatus</i> and <i>Polygraphus proximus</i> or	C
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5. List of associated Standards

It is proposed that individual phytosanitary procedures would be maintained as separate EPPO Standards, but that they should be part of a package that will always accompany the forestry standard when approved.

The following Standards are referred to:

EPPO Standards PM 3: Phytosanitary procedures

General export inspection procedure for glasshouse and nursery enterprise Growing plants in growing medium prior to export
Testing growing medium and plants in growing medium
Guidelines on the phytosanitary measure 'Plants grown under complete physical isolation'
Heat treatment of wood to control insects and wood-borne nematodes
Disinfestation of wood with ionizing radiation
Requirements for the establishment of pest-free areas, 1996. FAO, Rome
Glossary of phytosanitary terms, 2015. FAO, Rome
Requirements for the establishment of pest-free places of production and pest-free production sites, 1999. FAO, Rome
Regulation of wood packaging material in international trade, 2013. FAO, Rome
https://www.eppo.int/media/uploaded_images/RESOURCES/eppo_publications/td_1071_study_wood_commodities.pdf