



# COLD TREATMENT CONTAINER LOADING PROTOCOLS

Q25  
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Disclaimer: This document serves only as a guideline. It is the responsibility of the user to consult the complete compliance regulation of the concerned country (protocol, import permit, directive etc.), for further clarification. Refer to the DALRRD website.

COUNTRY	FRUIT	RECOMMENDED SET POINT (°C)	PROBES	VENT SETTING	PROTOCOL	DAYS	COLD STORE TARGET TEMPERATURE
<b>AMENDMENTS TO PERMITS WILL OVERRIDE THE COLD TREATMENT YELLOW CARD. PLEASE ADVISE DALRRD and inform PPECB REGARDING AMENDMENTS</b>							
#	For land based or intransit cold treatment, refer to the import permit						
#	Different set point temperature regime codes can be selected from the Schedule1/HP22 as long as the required protocol is maintained						
#	For Israel shipments, the origin of the fruit and the consignee name must be indicated on the export notification						
#	For Sri Lanka shipments, the import permit number must be indicated on the export notification						
#	Fruit must be pre-cooled to the target temperature. (Assessors may request a printout of up to 12 hours, but it is <b>not mandatory</b> )						
#	A genset is required if the travel time of the reefer to the port or stack for powering up, exceeds 2 hours						
#	Less than 2 hours travel time, shipping line to make genset recommendation						
#	Ensure the correct temperature regime codes are used for ventilated (SLV, SDV, SC) and non-ventilated (SL, SD) commodities						
#	Recommended cold store delivery air not colder than -1.5°C, and pulp temperature not colder than -1.5°C						
#	Recommended <b>SL (2,3,4 or 5) regime code formulas</b> for citrus to be selected from the Schedule1/HP22						
#	<b>In the case of Permit countries with different protocol options, the required protocol option must be indicated on the export notification, if not the strictest protocol will be used as the default</b>						
<b>ALL FRUIT MUST BE PRE-COOLED FOR A MINIMUM OF 72 HOURS AND FOR THE LAST 24 HOURS, THE FRUIT MUST BE ON THE TARGET TEMPERATURE</b>							
USA	T107-a Apples, Pears, Cherries, Blueberry	-1.3(SD3/SDV3)		closed/15	1.1	14	-0.5
	T107-e Table Grapes	-1.5(SD1)	3 Onboard	closed	-0.55	22	-0.8
	T107-e Nectarines, Peaches, Plums, Apricots, Plumcots	-1.5(SDV1)		15	-0.55	22	-0.8
	T107-e Citrus	-1.5(SC1)		15	-0.55	22	-0.8
<b>ALL FRUIT MUST BE PRE-COOLED FOR 72 HOURS TO THE TARGET TEMPERATURE</b>							
JAPAN	Oranges, Grapefruit, Lemons	-1.5(SC1)		15	-0.6	12	-0.8
	Clementine	-1.5(SC1)	3 Onboard	15	-0.6	14	-0.8
	Table Grapes (Barlinka)	-0.5(SD2)		closed	0.8	16	-0.5
S / KOREA	Oranges, Grapefruit, Lemons	-1.5(SC1)	3 Onboard	15	-0.6 ± 0.5	24	-0.8
CHINA	Oranges, Grapefruit, Mandarins (soft citrus)	-1.5(SC1)	3 Onboard	15	-0.6	24	-0.8
	Apples, Pears	-1.0(SD4/SDV4)		closed/15	1.0	16	-0.5
ISRAEL	Table Grapes	-1.5(SD1)	3 Onboard	closed	-0.6	22	-0.8
	Persimmons	-1.0(SDV4)		15	-0.6	22	-0.8
THAILAND	Oranges, Grapefruit, Lemons, Mandarins (soft citrus)	-1.5(SC1)	3 Onboard	15	-0.55	22	-0.8
	Table Grapes	-1.5(SD1)		closed	-0.55	22	-0.8
PHILIPPINES	Oranges, Grapefruit, Lemons, Mandarins (soft citrus)	-1.5(SC1)	3 Onboard	15	-0.55	22	-0.8
<b>ALL FRUIT MUST BE PRE-COOLED TO THE TARGET TEMPERATURE</b>							
<b>CHINA Table Grapes: minimum 24 hrs print of which the last 6 hrs must be at target temperature or below</b>							
CHINA	Table Grapes	-1.0(SD4)	3 Onboard	closed	0.8	20	-0.5
	Lemons	1.5(SC6)		15	3.0	18	2.0
EUROPEAN UNION	Oranges	-1.5(SC1)	3 Onboard or 3 Portable-spear	15	0.0	16	-0.5
VIETNAM	Table Grapes	-1.0(SD4)	3 Onboard	closed	-0.2	16	-0.8
					1.0	19	
INDIA	Apples, Pears	-1.0(SD4/SDV4)	3 Onboard	closed/15	1.1	12	-0.5
	Pome fruit, Table Grapes, Stone fruit	-0.5 (SL1)	Landbase: minimum 3 probes in Cold Store	closed/15	0.0	10	Cold store temperatures to be in line with the required protocol in the case of land based cold treatment (SL)
	Oranges, Grapefruit, Lemons, Mandarins (soft citrus)	(SL2, SL3, SL4, SL5)		15	1.1	12	
INDONESIA	Table Grapes	-0.5(SD2)		closed	2.0	14	
					3.0	16	
	Cherries	-0.5(SDV2)	3 Onboard	15	2.0	14	0.5
					3.0	16	
	Apples, Pears, Peaches, Plum, Apricots	-0.5(SD2/SDV2)		closed/15	2.0	16	
					3.0	20	
	Oranges, Grapefruit, Pomelos, Lemons, Mandarins (soft citrus)	0.5(SC5), 1.0(SC3)		15	2.0	16	0.5
					3.0	18	
TAIWAN	Apples	-1.0(SD4/SDV4)		closed/15	0.0	12	
	Table Grapes	-1.0(SD4)	3 Portable-spear or 3 Onboard	closed	1.67	14	-0.5
	Oranges, Grapefruit, Lemons, Mandarins (soft citrus)	-0.5(SC2)		15	3.33	18	
SRI LANKA	Table Grapes	-1.0(SD4)		closed			
	Apples, Pears, Plums, Pomegranates	-1.0(SD4/SDV4)		closed/15	0.0	14	
					0.55	18	
					1.1	20	-0.5
	Oranges, Mandarins (soft citrus), Kiwi Fruit	-0.5(SC2)	2 Portables	15	2.2	22	
MAURITIUS	Pears, Peaches, Plums, Nectarines, Apricots, Figs, Kiwi, Sharon Fruit, Cherries, Blueberries, Blackberries, Strawberries, Gooseberries, Cranberries, Mulberries, Currants	-1.0(SD4/SDV4)		closed/15	0.0	10	-0.5
					0.55	11	
	Table Grapes	-1.0(SD4)		closed	1.11	12	
			3 Onboard				
	Apples	-1.0(SD4/SDV4)		closed/15	0.0	13	
					0.56	14	
					1.11	18	-0.5
	Pomegranates, Kumquarts, Watermelons, Melons, Passion Fruit, Avocado			15	1.67	20	
	Oranges, Grapefruit, Mandarins (soft citrus), Lime	-1.0(SC4)		15	2.2	22	
<b>Fruit destined for Mauritius from a Bactrocera Dorsalis (BD) infected areas must under-go a cold treatment process.</b>							
JORDAN	Table Grapes	-0.5(SD2)		closed	1.5	14	
	Plums, Persimmons	-0.5(SDV2)	2 Portables	15	1.5	14	0.0
	Apple, Pears	-0.5(SD2/SDV2)		closed/15	1.5	40	
	Apple, Pears	In-transit treatment, -0.5(SD2) with two portables or as per import Permit to be performed in a land based cold store in Jordan, Refer to the PPECB schedule 1 for "D"+temperature regime options					
	Oranges, Lemons, Mandarins (soft citrus)	0.5(SC5)	2 Portables	15	2.0	14	0.0
	Lemons, Oranges	In-transit treatment, 0.5(SC5) with two portables or as per import Permit to be performed in a land based cold store in Jordan, Refer to the PPECB schedule 1 for "C"+temperature regime options					
SUDAN	Oranges	-0.5(SC2)	3 Portable-spear or 3 Onboard	15	1.6	5	0.0
<b>Refer to the import permit of the below mentioned countries to determine whether the consignment should be dispatched as cold treatment or normal shipments.</b>							
BANGLADESH	Apples, Pears	-1.0(SD4/SDV4)	2 Portables	closed/15	0.0	15	-0.5
GHANA	Apples, Pears	-0.5(SD2/SDV2)	2 Portables	closed/15	1.11	14	0.0
					2.22	18	
ZAMBIA	Apples, Pears	-0.5(D05)/00(D00)	3 probes in Cold Store		0.0	12	RRMT -0.5
MADAGASCAR	Apples, Pears	-1.0(SD4/SDV4)		closed/15			5 land + Cold store temperatures to be in line with the required protocol
	Table Grapes	-1.0(SD4)	2 Portables	closed	2.0	15 en-route	
	Oranges, Lemons, Kiwi Fruit	-1.0(SC4)		15			
NIGERIA	Fresh Fruits	-0.5(SL1), -1.0(SD4) or -0.5(SD2)	Landbase: 3 probes in Cold Store or en-route: 2 Portables	closed/15	-0.5	2	Cold store temperatures to be in line with the required protocol in the case of land based cold treatment (SL)
					0.0	5	
					0.0	2	
					0.5	3	
					2.0	10	
					3.0	14	