ISO 23412:2020-05 (E)

Indirect, temperature-controlledre frigerated delivery services - Land transport of parcels with intermediate transfer

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**
3.2 Cold stores 2
3.14 Refrigerated parcels 3
3.18 Temperature ranges and maximum temperatures 4

4 Refrigerated delivery service definition and communications **6**
4.1 Refrigerated delivery service attributes 6
4.2 Name of the refrigerated delivery service 6
4.3 Business licence for refrigerated delivery service providers 6
4.4 Refrigerated delivery service provider's contact details and customer service 7
4.5 Service transport temperature of the refrigerated delivery service 7
4.5.1 General 7
4.5.2 Chilled parcels 7
4.5.3 Frozen parcels 7
4.6 Accepted terms and conditions for refrigerated parcels 7
4.6.1 General 7
4.6.2 Items not accepted for transport by the refrigerated delivery service provider 8
4.6.3 Areas for refrigerated parcel acceptance and areas for refrigerated parcel delivery to/collection by a recipient 8
4.6.4 Refrigerated delivery service operation business days and hours 8
4.6.5 Opening hours and days of the week of acceptance and delivery locations 8
4.6.6 Standard delivery timescales (times/days) 8
4.6.7 Non-delivery of refrigerated parcels including holding times, returns and recalls 8

5 Transport network **9**
5.1 General 9
5.2 Geographical routing system 9
5.3 Demand and available resources 9
5.4 Operation sites 10
5.4.1 General 10
5.4.2 Responsible person 10
5.4.3 Transport 10

6 Information exchanged between the refrigerated delivery service provider and the delivery service user **11**
6.1 Documented information 11
6.2 Information to be obtained from the delivery service user 11
6.3 Delivery service user confirmation 11
6.4 Information to be provided by the refrigerated delivery service provider 12

7 Refrigerated parcels **12**
7.1 Acceptance of refrigerated parcels 12
7.2 Labelling, marking and visible information 12
7.3 Transferring refrigerated parcels into a refrigerated enclosure or cold store 12
7.4 Transferring refrigerated parcels between refrigerated enclosures and/ or cold stores 13
7.5 Temporary storage of refrigerated parcels in operation sites 13
7.6 Geographical sorting of refrigerated parcels 13
7.7 Delivery to the recipient 13

8 Information exchanged between the refrigerated delivery service provider and the recipient 14
8.1 Information to be obtained from the recipient on delivery of the refrigerated parcel 14
8.2 Information to be obtained from the recipient on collection by the recipient of the refrigerated parcel from an operation site 14
8.3 Information to be provided by the refrigerated delivery service provider on delivery of the refrigerated parcel 15
8.4 Information to be provided by the refrigerated delivery service provider on collection by a recipient of the refrigerated parcel from an operation site 15

9 Conditions for operation sites, refrigerated enclosures, cold stores and cooling materials 15
9.1 Operation site 15
9.1.1 Security of operation site 15
9.1.2 Protection from external conditions 15
9.2 Refrigerated enclosures 16
9.2.1 General 16
9.2.2 Temperature monitoring of a refrigerated enclosure 16
9.3 Cold stores 16
9.3.1 General 16
9.3.2 Temperature monitoring of cold stores in operation sites 17
9.4 Cooling materials 17
9.5 Cooling material cold stores 17
9.5.1 General 17
9.5.2 Temperature monitoring of cooling material cold stores 18

10 Work instructions and operational manuals 18
10.1 General 18
10.2 Work instructions 18
10.2.1 General 18
10.2.2 Handling of refrigerated parcels 19
10.3 Work instructions for transferring refrigerated parcels 19
10.4 Operational manual for refrigerated enclosure 20
10.5 Operational manual for the pre-cooling and pre-freezing of refrigerated enclosures 20
10.6 Operational manual for cold stores in operation sites 21
10.7 Operational manual for cooling materials 21
10.8 Operational manual for cooling material cold stores 21

11 Staffing 22
11.1 Training programme 22
11.2 Additional training 22
11.3 Staff members responsible for driving 22

12 Monitoring and improving the refrigerated delivery service 23
12.1 Transport network 23
12.2 Delays and non-deliveries within standard delivery timescales 23
12.3 Temperature monitoring and temperature recording of the transport network 24
12.3.1 Temperature monitoring 24
12.3.2 Temperature recording 24
12.4 Temperature control within the transport network 25
12.5 Quality controls of refrigerated delivery service operations 25

Annex A (informative) **Additional guidance for use 26**

Annex B (informative) **Considerations for the transport of refrigerated parcels containing foodstuff 32**

Bibliography 34