

INSTALLATION GUIDE: PG45-13.56MHz



BEYOND THE BOOK

Installation Guide

Version 1.1 | 12 May 2011

[Installation Guide]

## TECHNICAL SUPPORT

### EMAIL ADDRESS

[info@nedaplibrix.com](mailto:info@nedaplibrix.com)

### VISITORS ADDRESS

Nedap Librix  
Parallelweg 2d  
Groenlo  
The Netherlands

### POSTAL ADDRESS

Nedap Librix  
P.O. box 102  
7140 AC Groenlo  
The Netherlands

### TEL & FAX

Tel: +31(0)544 47 15 09  
Fax: +31(0)544 46 58 14

©Nedap Librix  
Netherlands  
Parallelweg 2d, 7141 DC Groenlo

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## CHANGE HISTORY

Date	Version	Description
18-04-2011	1.0	First version
12-05-2011	1.1	Added text to FCC section

## CONTENTS

<b>CHAPTER 1: INTRODUCTION</b>		<b>04</b>
1.1 Notices		04
<b>CHAPTER 2: INSTALLATION SCHEME 2 ANTENNA SYSTEM</b>		<b>05</b>
<b>CHAPTER 3: INSTALLATION SCHEME 3 ANTENNA SYSTEM</b>		<b>06</b>
<b>CHAPTER 4: MOUNTING INSTRUCTIONS</b>		<b>06</b>
<b>CHAPTER 5. FCC AND IC DECLARATION</b>		<b>09</b>
<b>CHAPTER 6. TECHNICAL DETAILS</b>		<b>10</b>
<b>CHAPTER 7. DISCLAIMER</b>		<b>11</b>

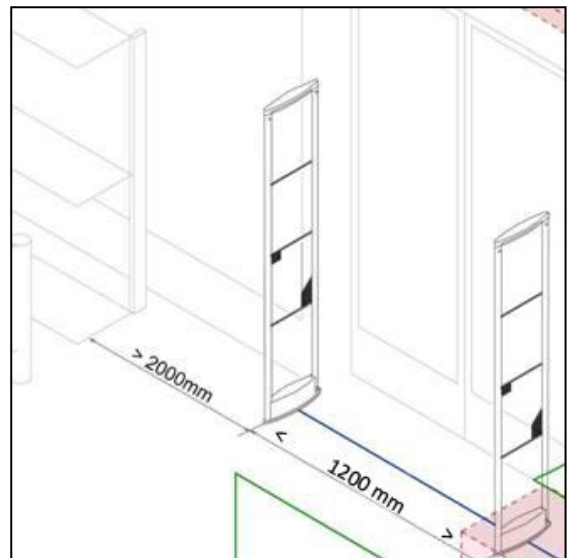
## CHAPTER 1: INTRODUCTION

This Quick Installation Guide describes the installation of the PG45-PCC-13.56.

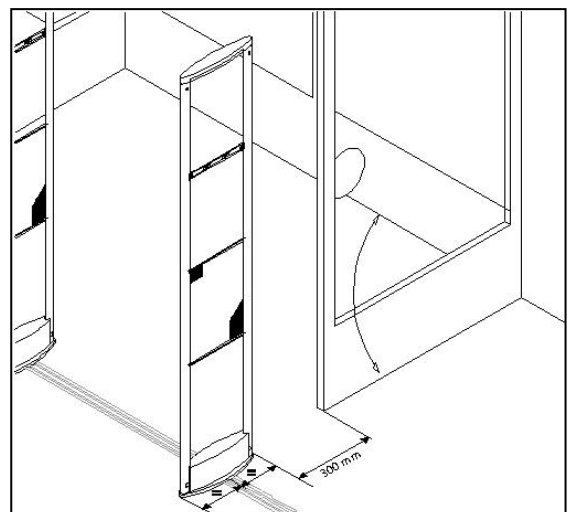
### 1.1. NOTICES

- *The used antenna images may differ from the ones you will be installing. However, the installation procedure remains the same.*
- *All measurements in this guide are based on past experiences. However, local environment properties may cause the need to change them. The quality of the used labels also influences the detection capabilities.*

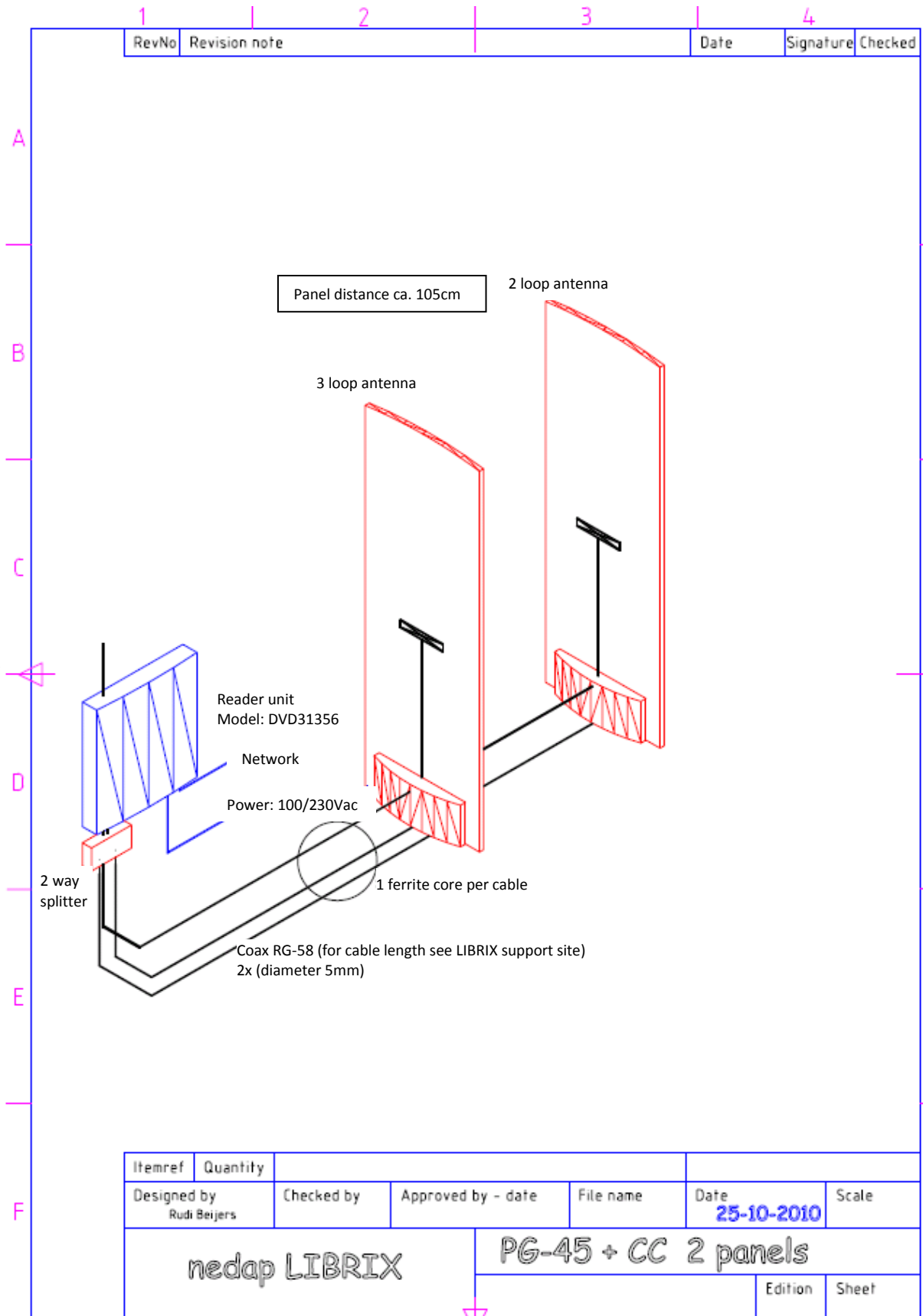
1. The distance between two antennas must be approximately 1050 mm.
2. In a range of 2 meters within the EAS-antennas there may not be any labeled articles. If there are labels within this distance then a shielding must be placed.



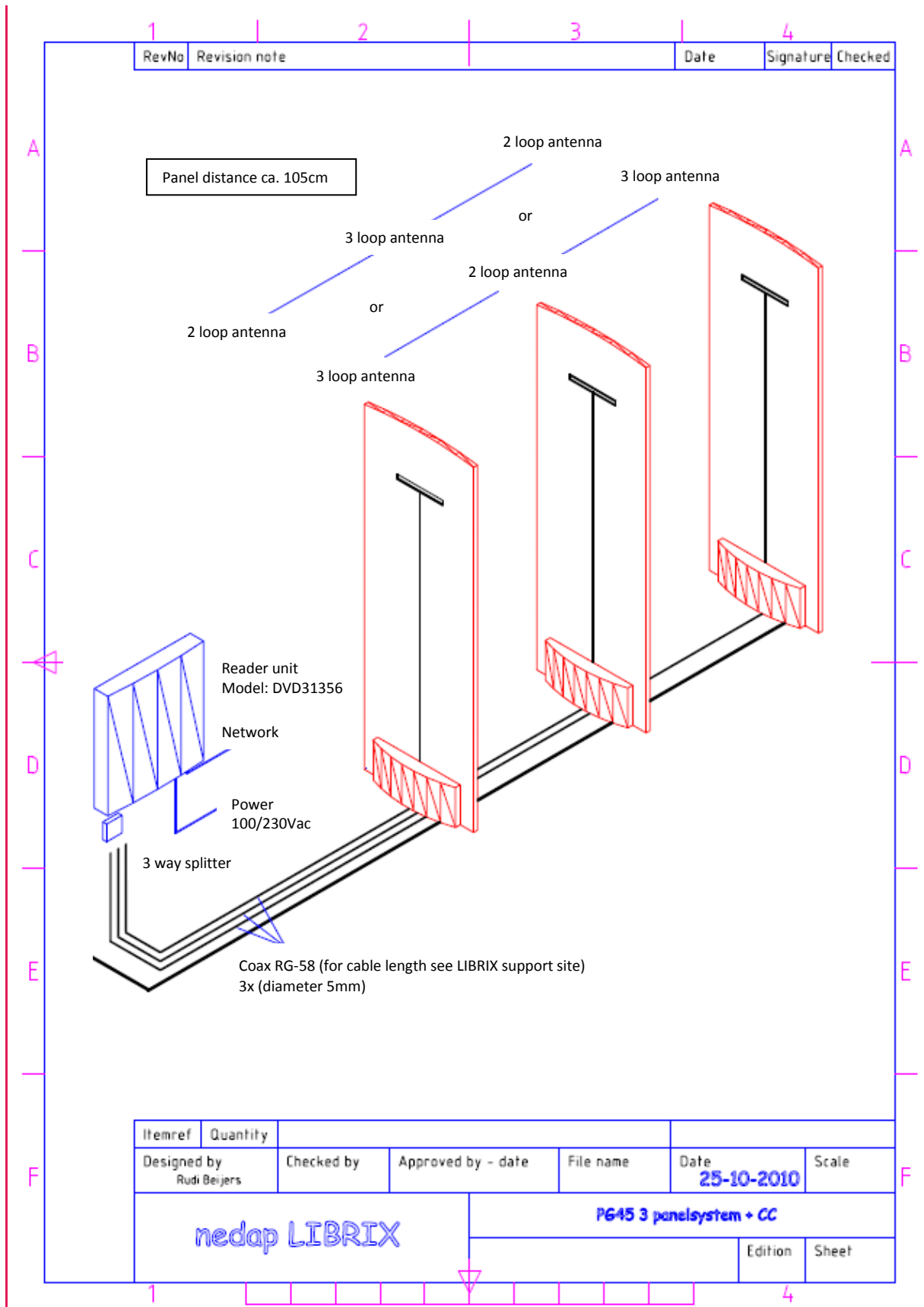
3. The distance between the antenna and door when opened is minimal 300 mm. Consider this before installing the tubes in the floor.



**CHAPTER 2: INSTALLATION SCHEME 2 ANTENNA SYSTEM**



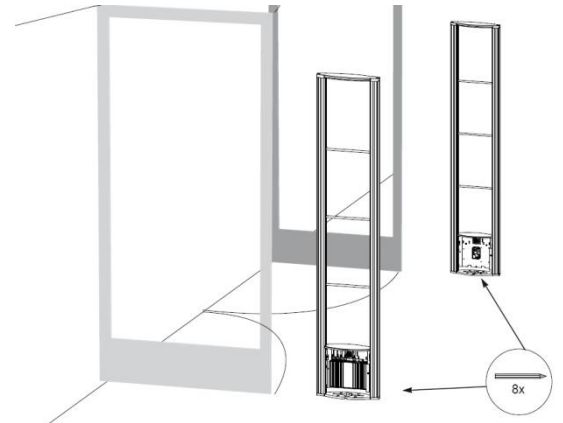
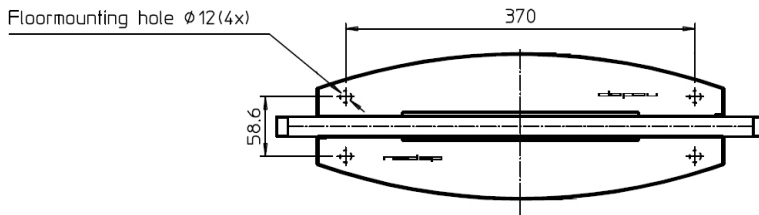
**CHAPTER 3: INSTALLATION SCHEME 3 ANTENNA SYSTEM**



**CHAPTER 4: MOUNTING INSTRUCTIONS**

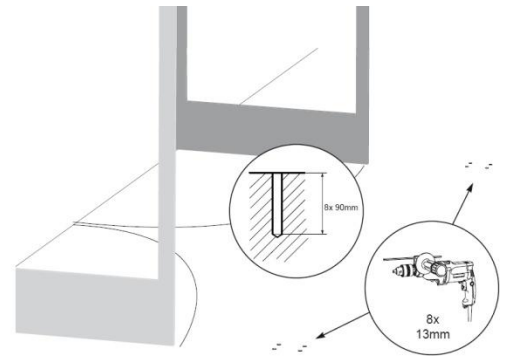
**STEP 1:**

Mark the holes used for mounting the antennas. Keep the following dimensions in mind:



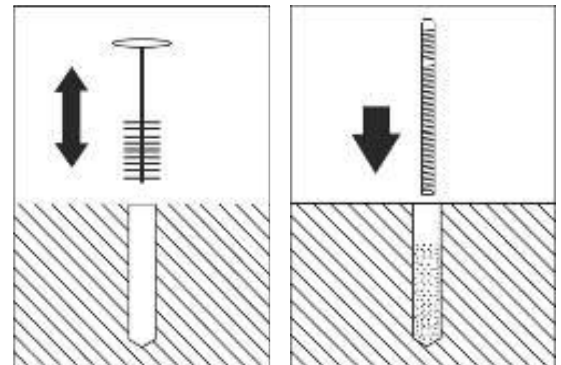
**STEP 2:**

Drill the marked holes using a hammer drill supplied with a 13 mm drill. The holes need to be approximately 90 mm deep.



**STEP 3:**

Clean the holes and place the anchors (which the antennas will be bolted to) according to anchor specification.





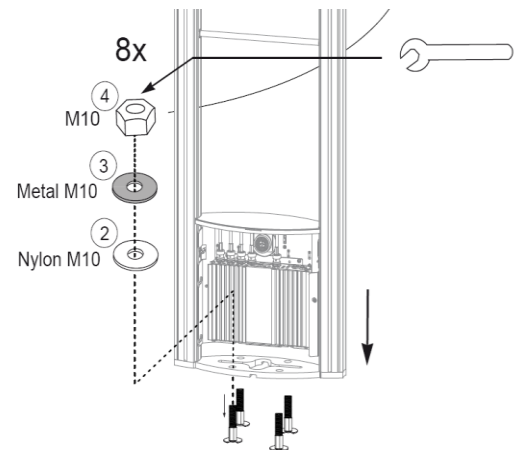
**STEP 4:**

Use (the told) conduits for wiring the antennas.



**STEP 5:**

Install the antenna by using the anchors and supplied materials.



**STEP 6:**

Connect the antenna wires to the electronics as shown.



## CHAPTER 5. FCC AND IC DECLARATION

FCC for USA according to Part 15a with FCC ID: CGDDVD31356

IC for Canada according to RS-210 with IC: 1444A-DVD31356

Part 15.19(3) and RSS\_Gen Labelling

This device complies with part 15 of the FCC Rules and to RSS210 of Industry Canada.

Operating is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil se conforme aux normes RSS 210 exemptés de license du Industry Canada.

L'opération est soumis aux deux conditions suivantes :

- (1) cet appareil ne doit causer aucune interférence, et
- (2) cet appareil doit accepter n'importe quelle interférence, y inclus interférence qui peut causer une opération non pas voulu de cet appareil.

Warning (part15.21)

Changes or modifications not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

## CHAPTER 6. TECHNICAL DETAILS

### PHYSICAL SPECIFICATIONS

Article numbers: PG 45; 2 loop / 3 loop:	9940448 / 9940456
Dimensions (mm): PG 45:	1665 x 480 x 100 (l x w x h)
Material: PG 45:	Metal / Plexiglas
Color: PG 45:	Transparent
Weight: PG 45:	ca. 29 kg
Function:	Detects labels with EAS = on / AFI 07 HEX
Optional expansions:	- Light alarm, integral, - Integral customer counter
Identification %:	Dependent on label quality / environmental influences

### ELECTRICAL SPECIFICATIONS READER

Article number:	9926798
Supply voltage:	100_230 V, 50-60Hz
Operating voltage:	24 V
Power consumption:	45 Watt
Length power cable:	1.8 m.

### CONNECTION SPECIFICATIONS

RF connection:	50 Ohm BNC coax
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### ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	+10 / +45 °C
Storage temperature:	-10 / +55 °C
Max. distance between two antennas: PG 45:	1.05 m

### RFID SPECIFICATIONS

Technology:	RFID
Frequency: Standard:	13.56 MHz
Antenna power (electrical):	Max. 8 Watt
RF antenna power:	37μWatt
Identifies:	ISO 15693 / ISO 18000-3.1
EAS-function:	Yes, based on EAS-bits and/or AFI

### WARRANTY / CERTIFICATES

Certificate:	CE / EMC / FCC
Warranty:	1 year

## CHAPTER 7. DISCLAIMER

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Nedap Librix  
P.O. Box 102  
NL-7140 AC Groenlo  
The Netherlands