TURKISH STANDARD INSTITUTION

Issue Number: B. 14.2. TSE.0.16.40.01-251.03-309581 03/09/2010

Subject: PrivateDemand

ELEKTRAL Elektromekanik San. Ve Tic. A.Ş.

Atatürk Organize Sanayi Bölgesi

M. K. Atatürk Blv. 23.

Çiğli/İzmir

Relevance: Your demand dated 01.09.2010

The demanded tests have been conducted on the Thruscan SX-i model Walk-Through Type Metal Detector sample enclosed with your demand, and the related test report is enclosed.

For your kind attention.

Ali BEYCAN

Ankara Laboratories Group Leader

Enclosed are 1) The report dated 02.09.2010 and numbered 09/10-93501.

2) The invoice dated 02.09.2010 and numbered 06.50.06-08/10-402.

3) The sample notice form.

HEADSHIP OF TEST LABORATORIES CENTRE

ELECTRICAL LABORATORY (ANKARA)

Address: Necatibey Cad. No. 112 06100 Bakanlıklar -/ANKARA Tel: 0312 4166552 Fax: 0312 4166335 E-mail: Elektrik.Lab.Müd@tse.org.tr Web: www.tse.org.tr

TEST REPORT

Customer (Name, address, City etc.)	**:** ELEKTRAL ELEKTROMEKANİK SAN. VETİC. A.Ş – ATATÜRK ORGANİZE SANAYİ BÖLGESİ M.K. ATATÜRK BLV. 23. ÇİĞLİ/İZMİR
Order Date/No	**:** 02.09.2010 / 43515
Sample Description (Type, Mark, Model etc.)	**:**WALK-THROUGH TYPE METAL DETECTOR, ELECTRAL Mark, THRUSCAN sX-i model, 1item
Sample Receipt Date	**:** 01.09.2010
	The sample was provided by the customer.
Date of Test	**:**02.09.2010 - 02.09.2010
Applied Standart/Method	**:** The related standarts are given on the following pages.
Number of pages of the report	**:** 38
Remarks	**:** Private Test

The testing and/or measurement results are given on the following pages which are part of this report.

This report was prepared referring to the private demand of the related firm, cannot be used as a

Conformity for Standarts Document and cannot be used for announcement and advertisement.

Seal	*Date*	*Person in charge of tests*	*Reviewer*	*Head of Laboratory*
	03/08/2010	Hakan Uçar Technician	Turhan BUYURAN Chief Technician	Ayşe Öztürk Head of Laboratory

Test Sample Definition

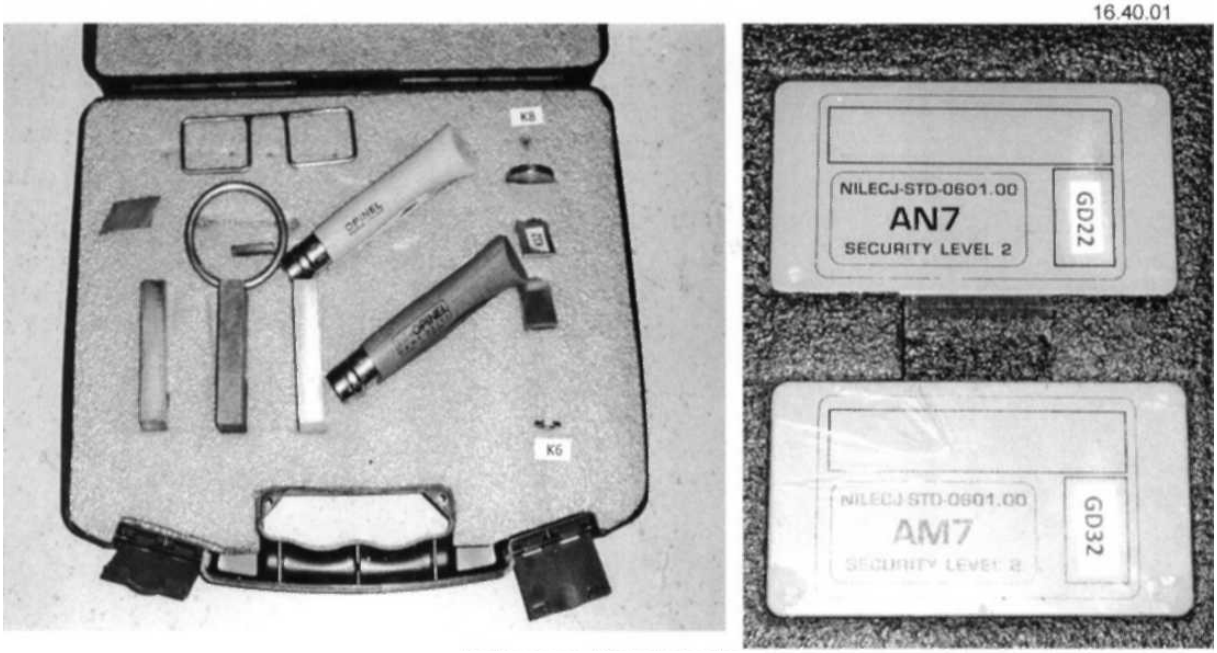
Name of the sample : Walk-Through Metal Detector

Mark : ELEKTRAL

Model : THRUSCAN sX-i

Serial No. : 10082601

Photographs of the test sample



Photographs of the calibration kit

ECAC DOC No:30 AND ITS PROVISIONS		Explanation	Result
SECTION 13 **TECHNICAL SPECIFICATIONS OF SECURITY EQUIPMENTS** **ICAO ANNEX 17** **13.1 Metal Detection Equipment** These requirements and metal detection equipment guidelines are applicable to any equipment using an electromagnetic field designed to detect, on a person, weapons and other metal items that may be used to commit an act of unlawful interference against civil aviation For the screening of persons, metal detectors are used: • while persons walk through the portal structure (Walk-Through Metal Detector – WTMD) • when persons stop at a checkpoint to be screened by an operator using a hand-held device (Hand-Held Metal Detector – HHMD) Walk-through metal detectors used in passenger screening at airports should fulfil the following requirements:			
(a) Security **(i)** equipment should be capable of detecting small items of different metals, with a higher sensitivity for ferrous metals in all foreseeable conditions.		The sensitivity was adjusted to 00. 2-teeth box cutter was detected in upper, middle and lower sections.	✓
(ii)equipment should be capable of detecting metal objects independentently of their orientation and location inside the frame.			✓
(iii)the sensitivity of the equipment should be as uniform as possible inside the whole frame and should remain stable and be checked periodically.			✓

(b) Operating requirements The functioning of the equipment should not be affected by its environment.		The equipment should not be getting affected by fixed metal objects, and should be positioned to keep a 1m. distance from moving metal objects.	✓
(c) Alarm indication Metal detection should be indicated automatically, leaving nothing to the operator's discretion (go/no go indicator system).			✓
(d) Controls **(i)**equipment should be capable of being adjusted to meet all specified detection requirements, as well as the volume of the audible alarm.			✓
(ii)controls for adjustment of detection levels should be designed to prevent unauthorised access. The settings should be clearly indicated.		Protected via both password and mechanical lock.	✓
(e) Calibration Calibration procedures should not be made available to unauthorised persons.			
ECAC DOC No:30 AND ITS PROVISIONS			
13.1.1 General Principles **1)** WTMD should be able to detect and to indicate by means of an alarm at least specified metallic items, both individually and in combination.			✓
2)The detection by WTMD should beindependent of the orientation and position of the metallic item.		Detected in all of the XYZ directions.	✓

3) WTMD should be firmly fixed to a solid base.			✓
4) WTMD should have a visual indicator to show that the equipment is in operation.		Provided via 4x20 LCD screens and LEDs.	✓
5)The means for adjusting the detection settings of WTMD should be protected andaccesible only to authorised persons.		Protected via both password and mechanical lock.	✓
6) WTMD should give both a visual alarm and an audible alarm when it detects metallic items as referred to in point 13.1.2. Both types of alarm should be noticeable at a range of 2 metres.			✓
7) The visual alarm should indicate the strength of the signal detected by WTMD.		Indicated via VU metre.	✓
8)The performance of WTMD should not be affected by sources of interference.		Ran next to telephone and UPS; did not get affected.	✓
13.1.3 Additional requirements for WTMD **(i)**generate an audible and/or visual signal on a percentage of persons passing through the WTMD who did not cause an alarm as referred to in point 13.1.1.1. It should be possible to set the percentage; and		Adjusted to 50%. Gave alarm in 8 passings of every 15 ones.	✓
(ii)count the number of screened persons, excluding any person passing through the WTMD in the opposite direction; and			✓

(iii) count the number of alarms; and			✓
(iv) calculate the numberof alarms as a percentage of the number of screened persons.			✓
13.1.5 Functional and other requirements for WTMD **13.1.5.1 Functional requirements** **(a) Detection capability** • The WTMD should be capable of reliably and consistently detecting ferrous and nonferrous metal.		Tested with ECAC / NIJ / TSA test kits and found to meet all requirements.	✓
• The appropriate authority should specify the range of items to be detected.			✓
• The location, orientation and speed of any metal object passing through the WTMD should not influence the detection ability.			✓
• The electromagnetic field inside the WTMD should be as uniform as possible.		Measured to be 0,1 Gauss on all surfaces.	✓
(b) Discrimination The WTMD should be capable of discriminating between different metals and their alloys.		With sensitivity set to 02, Spectacles and Bracelet in the test kit did not set off the alarm, while 2-teeth box cutter did. (The ability to discriminate.)	✓
ECAC DOC No:30 AND ITS PROVISIONS			
(c) Alarm indication; The WTMD should have both audible and visual alarm indication. Alarm should be indicated before or when the person screened walks out of the device. Alarm duration should be adjustable.			✓

• **Audible Alarm:** Audible alarm should be adjustable in tone and audio volume so that the operator can hear it in a busy operational environment.			✓
• **Visual Alarm:** The visual alarm should be clearly visible to the operator. The visual alarm should provide information on the amount of detected material.			✓
• **Additional Alarm (optional):** It should be possible to generate an alarm for a specified percentage of persons who are not carrying metal items. This additional alarm may be indicated in a different tone.			✓
• **Threat location (optional):** The WTMD should be capble of indication the location of the metal which generated the alarm.			✓
• **Remote alarm indication (optional):** The WTMD should be capable of indicating the alarm at a remote location.		With computer connection, the viewing of real-time alarms via computer becomes available.	✓
13.1.5.2 Operational requirements • The WTMD should be easy to operate with clear alarm and failure indication.			✓
• The WTMD should perform self-testing when switched on and shall not require any further adjustment by the operator.			✓
• An approved operational test piece should be supplied by the manufacturer. Frequency / methods of testing should be determined by the appropriate authority.			✓
(a) Sensitivity settings • The senitivity of the WTMD should be adaptable to the threat level.		Adjustable between 0-246	✓
• The adjustment of the WTMD's performance (selectable settings) should only be possible by authorised staff.		Protected via both password and mechanical lock.	✓

• If performance can be adjusted or mantained by remote control or in a computer network, effective measures for preventing unauthorised access.			✓
(b) Operator Controls; Only those controls required to operate the WTMD (Power On / Off) should be accessible to the operator.			✓
(c) Self-checking routine • The WTMD shall have continuous self-checking of key parameters that will cause an alarm that will require acknowledgement by the operator when a malfunction is detected.			✓
• Any automatic re-calibration should not interfere with system use.			✓
• If the test or re-calibration fails, an appropriate display should provide the operator with failure indication.		Gives an error code. The code is explained in the manual.	✓
• The WTMD should have continuous self-checking of key parameters.			✓
ECAC DOC No:30 AND ITS PROVISIONS			
(d) Insensitivity to interference • Equipment used at an airport security checkpoint, including mobile phones, wireless devices etc., should not cause disturbance to the WTMD's operation.		Conforms to the TSE test report numbered 05-08/16050	✓
• The WTMD should not affect the performance of either the airport or security equipment.		Conforms to the TSE test report numbered 05-08/16050	✓
• The WTMD should meet relevant EMC/EMI regulations.		Conforms to the TSE test report numbered 05-08/16050	✓

(e) Statistica data of operation The WTMD should be capable of accumulating statistical data, e.g.: • time of operation			✓
• passenger counts			✓
• alarm counts (seperated into real and additional alarms).			✓
(f) Optimum siting The manufacturer should provide information on the optimum siting of the WTMD.		Will be provided for the user.	✓
13.1.5.3 Mechanical and electrical requirements **(a) General** • The WTMD should be self-contained with a smooth surface, sturdy and not easily tipped.			✓
• The floor area should be clear of obstacles.			✓
• The WTMD should be capable of being fixed to the floor or other structure.			✓
(b) Physical dimensions Internal dimensions: The internal dimension should be appropriate for the purpose of screening persons, e.g.: • Width: min. 70 cm		74 cm	✓
• Height: min. 200 cm		201 cm	✓
• Depth: max. 65 cm.		50 cm	✓

External dimensions: The external dimension should be as small as possible. Various options in outside design should be available for integrating the WTMD into the airport infrastructure.		8 types are available according to the statement of the firm.	✓
(c) Susceptibility to vibration The WTMD should not be susceptible to false alarms caused by mechanical vibration.			✓
(d) Environmental requirements • The WTMD should be water resistant and shall be provided with protection for the panels so that the floor could be washed with water without damaging the panels themselves.		Meets the IP44 conditions according to the TSE test report numbered 08-10/92337	✓
• The WTMD should be provided with protection against heat, dust and humidity.		Works in temperature levels between -20°C and +70°C and in %95 relative humidity according to the report of the firm NKL ELEKTRONİK SAN. dated 18.11.2009 and numbered 91120-01.	✓
(e) Electrical requirements The WTMD should be compatible with the local power supply and operate correctly at a voltage/frequency fluctation of +/-10%.			✓
ECAC DOC No:30 AND ITS PROVISIONS			
13.1.5.4 Health and safety requirements **(a) General** The WTMD should comply with relevant health and safety legislation.		Appropriate according to the EGE University Fac. of Med. report dated 08.11.2007 and numbered B.30.2.EGE.0.01.00.06.04-1568.	✓

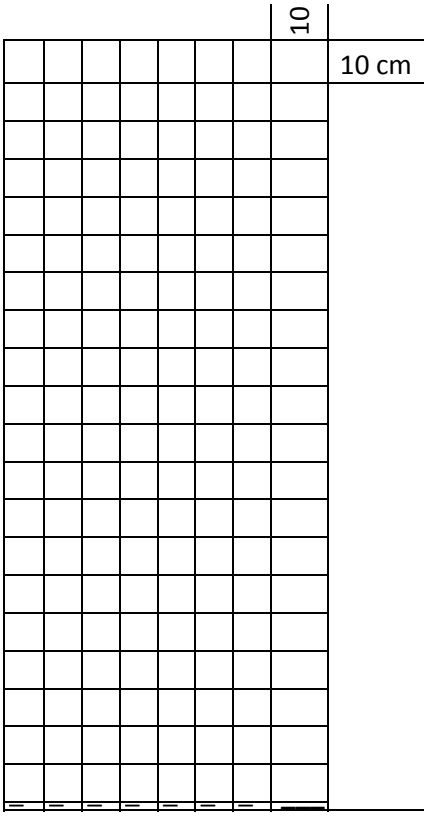
(b) Mechanical safety • The WTMD should not have any tripping hazards, such as ramps or external wires.			✓
• The WTMD should be free of sharp corners and protrusions which could cause injuries or damage to clothing.			✓
(c) Electrical safety The WTMD should be free of potential electric shock hazards during operation.			✓
(d) Non-interference with technical medical aids • The WTMD should not have a detrimental effect on technical medical aids such as hearing aids, pacemakers, defibrillators, etc.		Appropriate according to the EGE University Fac. of Med. report dated 08.11.2007 and numbered B.30.2.EGE.0.01.00.06.04-1568.	✓
• Evidence that this has been establised by a competent authority should be provided by the manufacturer.		Appropriate according to the EGE University Fac. of Med. report dated 08.11.2007 and numbered B.30.2.EGE.0.01.00.06.04-1568.	✓
(e) Non-interference with electronic equipment The WTMD should not interfere with electrical or electronic devices and magnetic storage media.		Appropriate according to test report of TSE numbered 05-08/16050	✓
13.1.5.5 Maintenance and service • The WTMD should be designed for ease of maintenance.			✓
• It should also have battery back-up with automatic intervention in the event of power blackout and battery operation signalling.		UPS automatically intervened when the electricity to the device was cut off, and it was observed that the device kept on running.	✓

• Instructions for installation, operation, maintenance, trouble-shooting, list of essential spare parts and equipment guarantees and warranties should be provided by the manufacturer.		Provided with the device.	✓

An Opinel brand stainless jackknife—knife length 10 cm—with the invoice number 521639 was used for Standard 2 in ECAC tests.

(a) Laboratory test

The field inside the WTMD is separated in sections as follows:



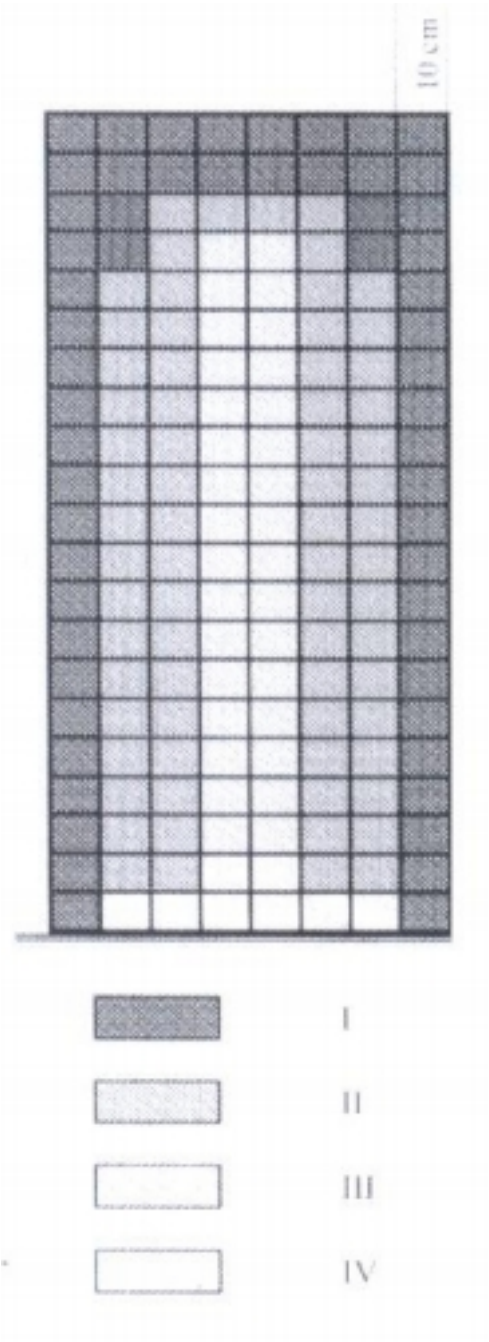
The following test objects are carried through every section with a determined speed.

Test Object	Metal/Alloy mass dimension	Location	Orientation	Speed (walk)	Speed (throw)	Detection capability (PD)
A	2-teeth box cutter	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	% 100
B	NIJ test parts	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	% 100
C	TSA test parts	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	% 100
D	ECAC test part	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	% 100

The detection capability is measured and classified as follows:

I	PD = 100%
II	PD = 75%
III	PD = 50%
IV	PD = 0

The following picture provides an image about the homogeneity of the magnetic field:



(b) User test

Test object	Metal/alloy mass dimension	Location	Orientation	Speed (walk)	Speed (throw)	False alarm (F_A)
E	2-teeth box cutter	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	0%
F	NIJ test parts	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	0%
G	TSA test parts	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	0%
H	ECAC test part	1.2.3.4.5.6.7.8.9	x-y-z	Various	Various	0%

Walk-Through Metal Detector

VERIFICATION OF THE CALIBRATION

METAL DETECTOR	ELEKTRAL ELEKTROMEKANİK SAN. VE TİC. A.Ş.
	ThruScan SX-t
	10082601
Property Tag Number (if applicable)	10082601
Security Level Name	Various
Facility Name	TSE Electric Laboratory – Ankara-TR
Location	Bakanlıklar - Ankara
Date	2010 | 09 | 02

☐ **STANDARD 1**	**PASS** □	**FAIL** □
	The verification has been completed successfully. Each section gave a positive result.	The verification has not been completed. One or more of the sections gave a negative result.
☒ **STANDARD 2**	**PASS** ☒	**FAIL** □
	The verification has been completed successfully. Each section gave a positive result.	The verification has not been completed. One or more of the sections gave a negative result.
☐ **STANDARD3**	**PASS** □	**FAIL** □
	The verification has been completed successfully. Each section gave a positive result.	The verification has not been completed. One or more of the sections gave a negative result.

VERIFICATION OF THE CALIBRATION

1) Foreword

This procedure shows the operations to be performed to verify the calibration of Walk-Through Metal Detectors, according to the actual Security Standards.
This procedure must be performed after the positive result of all the technical measurements done at the installation, which certify that the Walk-Through Metal Detector is operative in the working area. (Site Acceptance Test).
The calibration setting must be the one proposed by the manufacturer as the best to meet the requirements of the Security Standard.

2) Kit Composition

Table 1 – Part List of the 3-Standard Kit

Ref	Item	Q.ty
1	K6 Reference Test Sample	1
2	K8 Reference Test Sample	1
3	K10SS Reference Test Sample	1
4	K10 Reference Test Sample	1
5	K12SS Reference Test Sample	1
6	K12 Reference Test Sample	1
7	GD22 Reference Test Sample	1
8	GD32 Reference Test Sample	1
9	Carrying Case	1
10	Instructions for use and Verification Module (this sheet)	3
11	Holder for the ankle position	1
12	Test Piece certificates	1

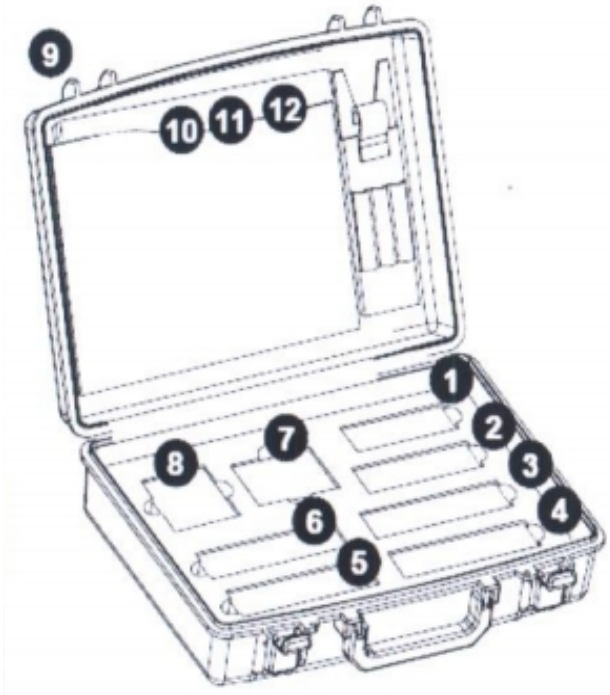
Table 2 – Part List of the 2-Standard Kit

Ref	Item	Q.ty
4	K10 Reference Test Sample	1
5	K12SS Reference Test Sample	1
6	K12 Reference Test Sample	1
7	GD22 Reference Test Sample	1
8	GD32 Reference Test Sample	1
9	Carrying Case	1
10	Instructions for use and Verification Module (this sheet)	1
11	Holder for the ankle position	1
12	Test Piece certificates	1

VERIFICATION OF THE CALIBRATION

Tablo 3. İlgili Güvenlik Standardı İçin Kullanılacak Test Parçaları

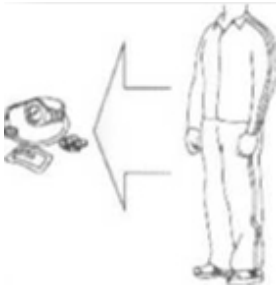
Referans Test Parçası	Standart 1	Standart 2	Standart 3
K6			•
K8			•
K10SS			•
K10		•	
K12SS		•	
K12	•		
GD22	•	•	•
GD32		•	•

Drawing	Ref	Description
	1	K6 Test Piece
	2	K8 Test Piece
	3	K10SS Test Piece
	4	K10 Test Piece
	5	K12Test Piece
	6	K12SS Test Piece
	7	GD22 Test Piece
	8	GD32 Test Piece
	9	Carrying Case
	10	Instructions for use and Verification Module (3 pieces)
	11	Holder for the ankle position
	12	Test Piece certificates

VERIFICATION OF THE CALIBRATION

3. The "Clean Tester"

In order to verify the detection capabilities of the metal detector on the Reference Test Samples, without any influence by other metallic personal objects, the following tests shall be performed by an operator without wearing metallic parts, even the ones usually enclosed on clothes and accessories. This operator will be the "Clean Tester".



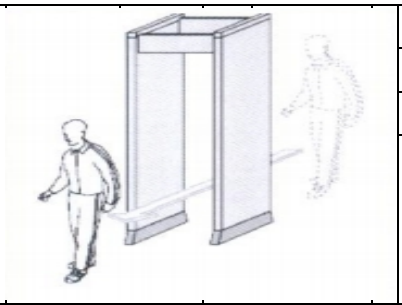
Therefore, the Clean Tester will wear a tracksuit, gym shoes and he/she must remove any personal metallic objects (glasses, watch, rings, necklaces, bracelets...) before starting the tests.

4. Test Procedure

4.1 Clean Tester

This test is performed by the Clean Tester.

Carry out four transits, two in one direction and two in the opposing direction, walking at a normal speed. Ensure that the Metal Detector will show a signal lower than the 20% (typical) and never higher than the 40% of the alarm threshold (maximum acceptable).

STEP 1		
4.1 Verification by means of the "Clean Tester"		
Is the signal measured during all passages always lower than the 40% of the alarm threshold? 	YES ✓	NO
	YES ✓	NO
	YES ✓	NO
	YES ✓	NO
Overall result: The signal measured during all passages is always lower than the 40% of the alarm threshold.	YES ✓	NO

The human body did not trigger the alarm.

VERIFICATION OF THE CALIBRATION

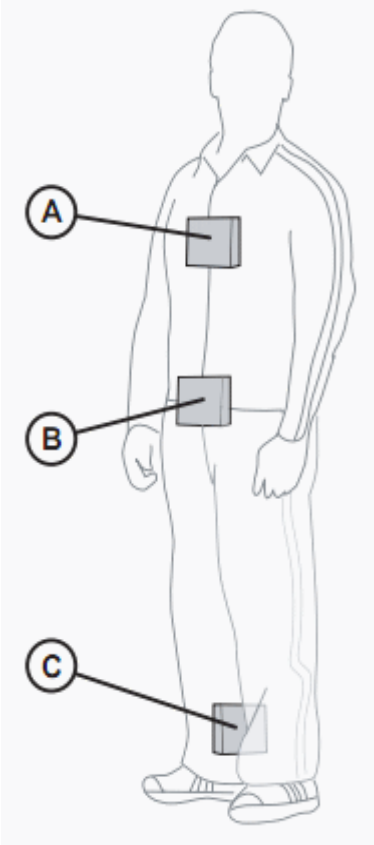
4.2 Walk-Through Detection Verification by means of the Reference Test Samples

The following procedure is performed by the Clean Tester.

Each Reference Test Sample is identified with its own name and with the transit orientations numbered from 1 to 6.

Wear each Reference Test Sample and perform, for each location (see picture on the right) and for each orientation (see table below), four transits, two in one direction and two in the opposite one, verifying that for every transit an alarm is triggered.

In case of no detection, increase the sensitivity by modifying the appropriate parameters globally and/or for the corresponding zone of the transit, if possible.



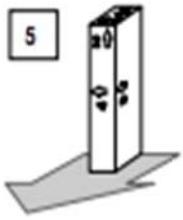
Position	Description
A	Test piece at the centre of the chest
B	Test piece at the center of the waist
C	Test piece at right ankle, lower side of test piece at ankle bone.

VERIFICATION OF THE CALIBRATION

STEP 2-A

4.2 Walk-Through Detection Verification

Carry out four (4) transits through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside, and the associated arrow in the transit direction.

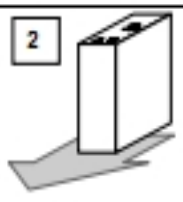
Orientation	Position	Standard 1 K12 Test Sample		Standard 2 K10 Test Sample		Standard 3 K6 Test Sample	
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 2-B

4.2 Walk-Through Detection Verification

Carry out four (4) transits through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside, and the associated arrow in the transit direction.

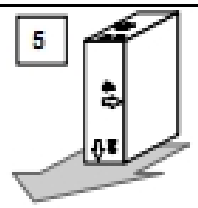
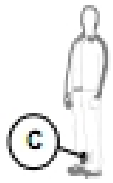
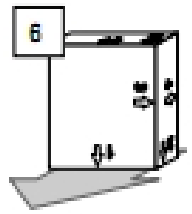
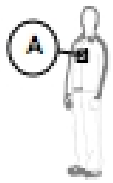
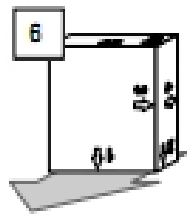
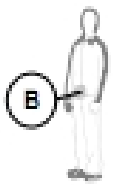
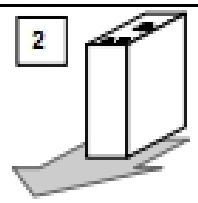
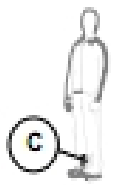
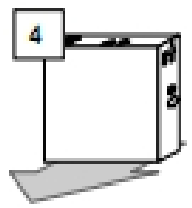
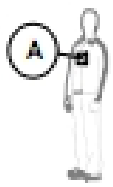
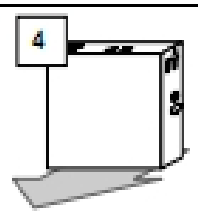
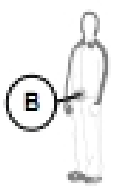
Orientation	Position	Standard 1 GD22 Test Sample	Standard 2 K12SS Test Sample	Standard 3 K8 Test Sample
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐	YES ☒ NO ☐	YES ☐ NO ☐
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		
		YES ☐ NO ☐		

ERIFICATION OF THE CALIBRATION

STEP 2-C

4.2 Walk-Through Detection Verification

Carry out four (4) transits through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated number upside,
and the associated arrow in the transit direction.

Orientation	Position	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 K10SS Test Sample	
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		
		YES ☐	NO ☐	YES ☒	NO ☐		

VERIFICATION OF THE CALIBRATION

STEP 2 - Overall result						
4.2 Walk-Through Detection Verification.						
The Metal Detector generated an alarm for each and every transit, orientation, position and Reference Samples specified.	☐ Standard 1		☒ Standard 2		☐ Standard 3	
	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

4.3 Pass-Through Detection Verification by means of the Reference Test Samples

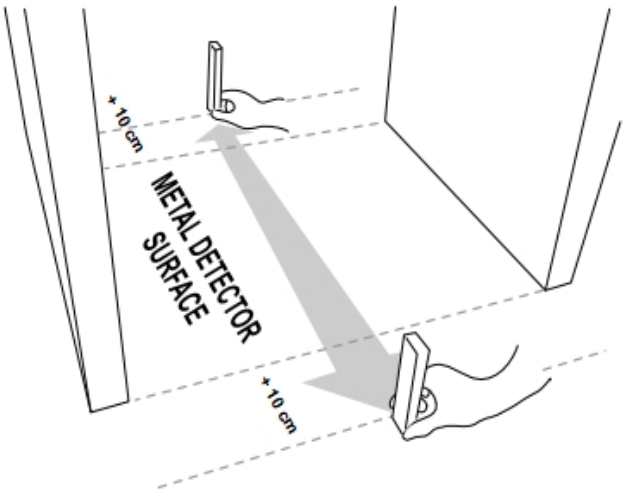
For the two smallest Reference Test Samples, and for each one of the 6 indicated orientations, perform two transits forward and two transits backward:

- at the floor level
- at 40cm
- at 80cm
- at 1,2m
- and at 1,6m

in the center of the gate.

For each and every transit the Metal Detector shall trigger an alarm.

In case of no detection, increase the sensitivity by modifying the appropriate parameters globally and/or for the corresponding zone of the transit, if possible.

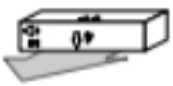
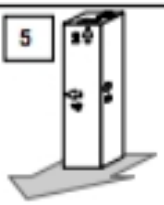


VERIFICATION OF THE CALIBRATION

STEP 3-A

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside, and the associated arrow in the transit direction.

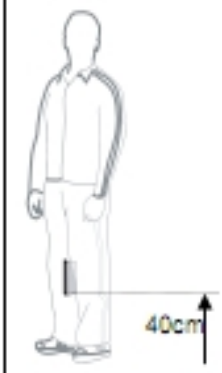
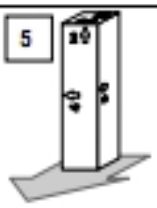
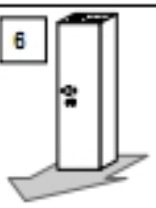
Position	Orientation	Standard 1 GD22 Test Sample		Standard 2 K10 Test Sample		Standard 3 K8 Test Sample	
 In the middle of the gate, at floor level.	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-A

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

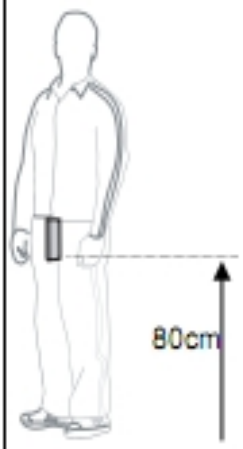
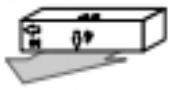
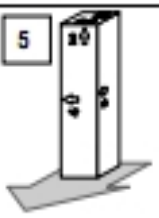
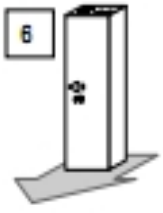
Position	Orientation	Standard 1 GD22 Test Sample		Standard 2 K10 Test Sample		Standard 3 K8 Test Sample	
 In the middle of the gate, at 0,4 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-A

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

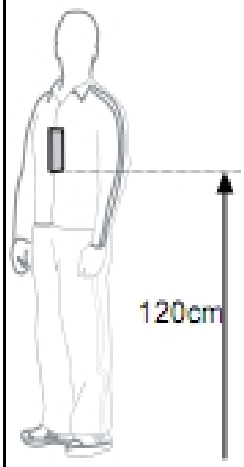
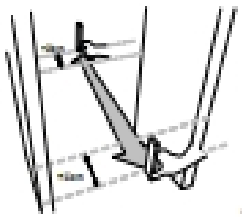
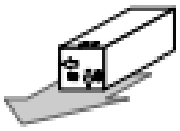
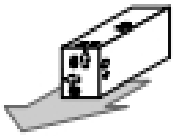
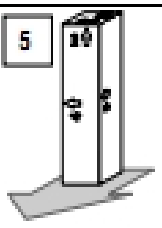
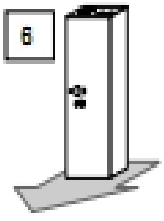
Position	Orientation	Standard 1 GD22 Test Sample		Standard 2 K10 Test Sample		Standard 3 K8 Test Sample	
 In the middle of the gate, at 0,8 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-A

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated number upside,
and the associated arrow in the transit direction.

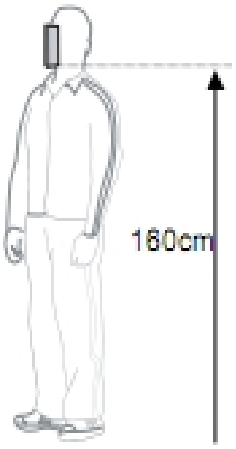
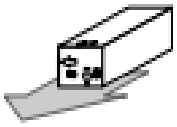
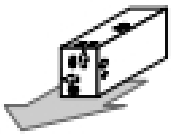
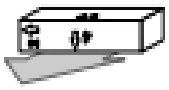
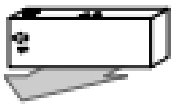
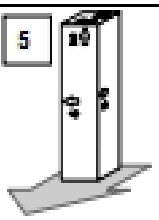
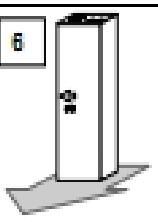
Position	Orientation	Standard 1 GD22 Test Sample		Standard 2 K10 Test Sample		Standard 3 K8 Test Sample	
 In the middle of the gate, at 1,2 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☒
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-A

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

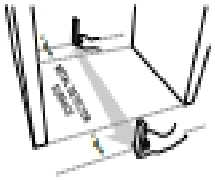
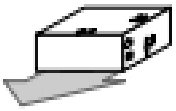
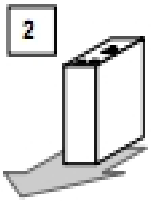
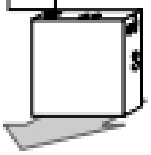
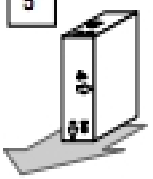
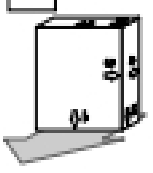
Position	Orientation	Standard 1 GD22 Test Sample		Standard 2 K10 Test Sample		Standard 3 K8 Test Sample	
 In the middle of the gate, at 1,6 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-B

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

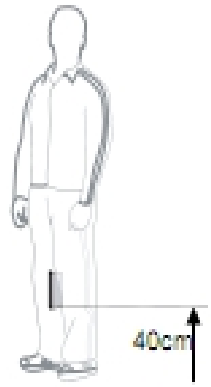
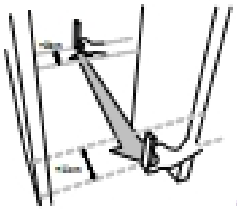
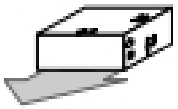
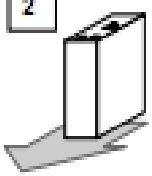
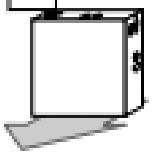
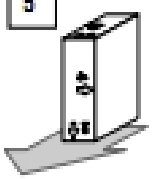
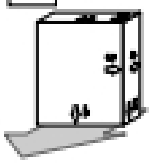
Position	Orientation	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 GD32 Test Sample	
 In the middle of the gate, at floor level.	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-B

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

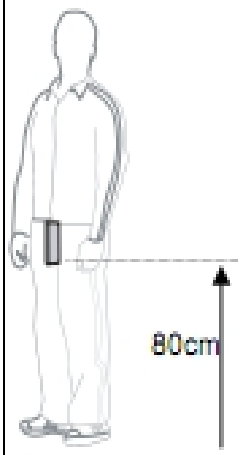
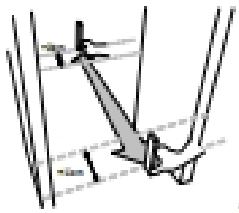
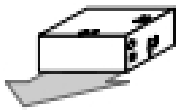
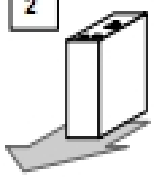
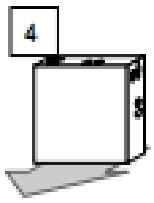
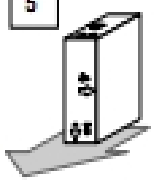
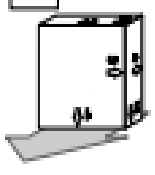
Position	Orientation	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 GD32 Test Sample	
 In the middle of the gate, at 0,4 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-B

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated number upside,
and the associated arrow in the transit direction.

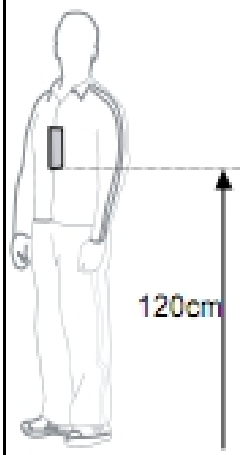
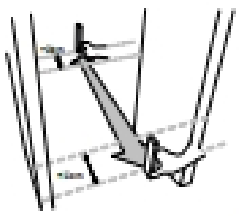
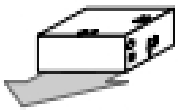
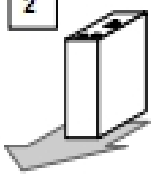
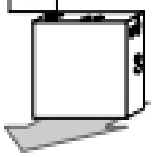
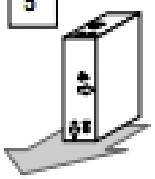
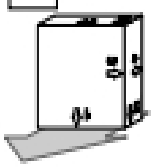
Position	Orientation	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 GD32 Test Sample	
 In the middle of the gate, at 0,8 m from ground. 	1 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
	2 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
	3 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
	4 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
	5 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
	6 	YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []
		YES []	NO []	YES [X]	NO []	YES []	NO []

VERIFICATION OF THE CALIBRATION

STEP 3-B

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated number upside,
and the associated arrow in the transit direction.

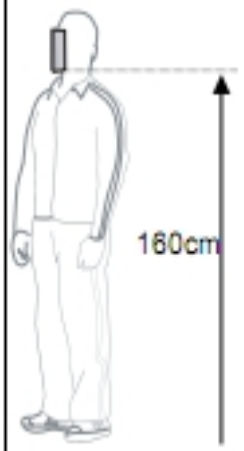
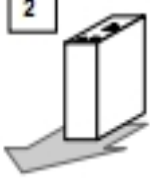
Position	Orientation	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 GD32 Test Sample	
 In the middle of the gate, at 1,2 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 3-B

4.3 Pass-Through Detection Verification by means of the Reference Test Samples.

Carry out four (4) transits of each Test Sample through the Metal Detector, two in one direction and two in the opposite direction, verifying that for each transit an alarm will be generated.
Respect the orientation indicated in the figure during the test piece transit.
Position the sample with the indicated **number** upside,
and the associated arrow in the transit direction.

Position	Orientation	Standard 1 GD32 Test Sample		Standard 2 GD32 Test Sample		Standard 3 GD32 Test Sample	
 In the middle of the gate, at 1,6 m from ground. 	1 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	2 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	3 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	4 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	5 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
	6 	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐
		YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

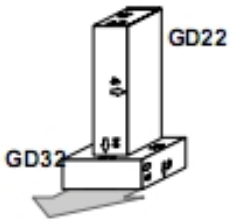
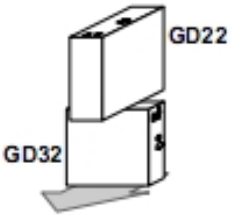
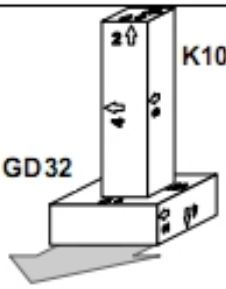
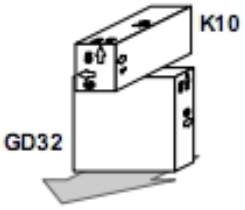
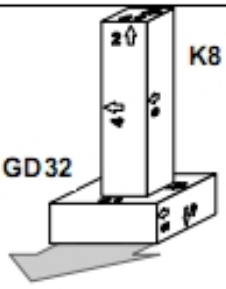
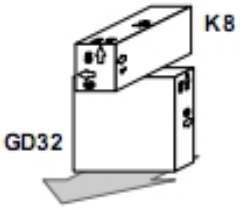
STEP 3 - Overall result						
4.3 Pass-Through Detection Verification by means of the Reference Test Sample.						
The Metal Detector generated an alarm for each and every transit, orientation, position and Reference Samples specified.	☐ Standard 1		☒ Standard 2		☐ Standard 3	
	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

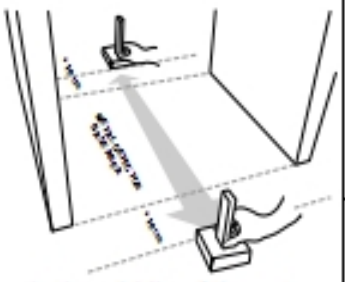
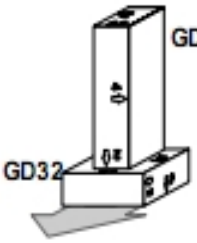
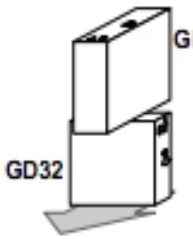
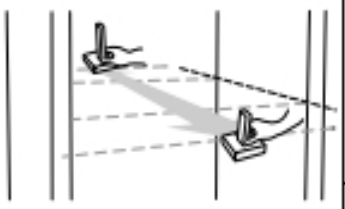
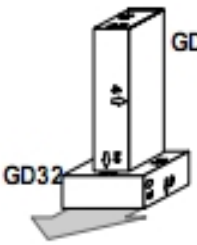
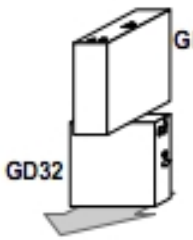
4.4 Verification of Combination Effects

The absence of this detrimental effect can be verified by passing through the smallest objects on the two combination coupling. Transit the assembled items at floor level and at 0,8 meters from the floor.

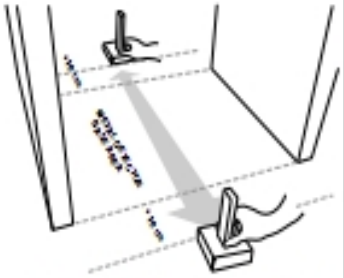
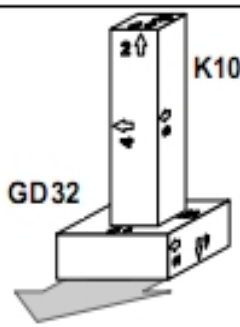
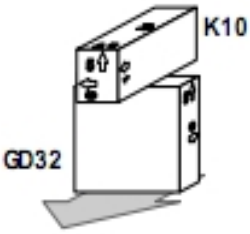
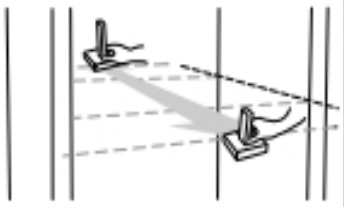
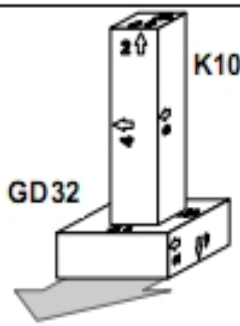
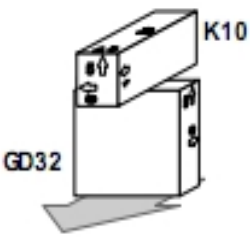
Combination of test samples

Standard	Combinations	
Standard 1		
Standard 2		
Standard 3		

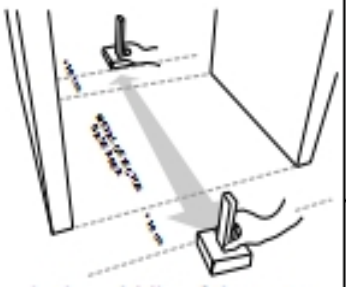
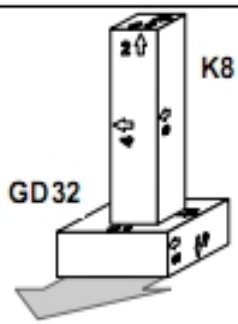
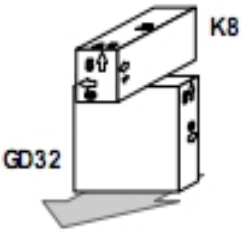
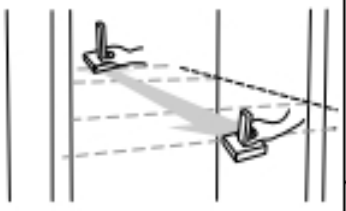
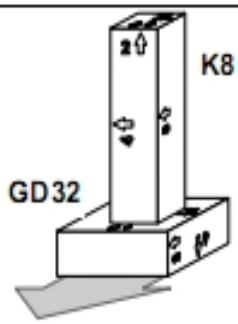
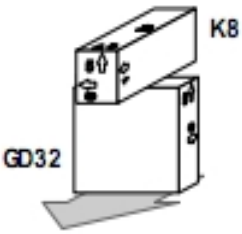
VERIFICATION OF THE CALIBRATION

STEP 4				
4.4 Verification of Combination Effects.				
Position	**Orientation**		**Standard 1**	
 In the middle of the gate, at floor level.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample GD22 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture.	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample GD22 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture.	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
 In the middle of the gate, at 0,8 m from ground.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample GD22 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture.	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample GD22 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture.	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 4				
4.4 Verification of Combination Effects.				
Position	Orientation		Standard 2	
 In the middle of the gate, at floor level.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample K10 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture	YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample K10 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture	YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
 In the middle of the gate, at 0,8 m from ground.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample K10 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture	YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample K10 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture	YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]
			YES [X]	NO [ ]

VERIFICATION OF THE CALIBRATION

STEP 4				
4.4 Verification of Combination Effects.				
Position	Orientation		Standard 3	
 In the middle of the gate, at floor level.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample K8 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample K8 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
 In the middle of the gate, at 0,8 m from ground.		Position the sample GD32 with the number **1** upside, and the associated arrow in the transit direction and the sample K8 on top of GD32, with the number **5** upside, and the associated arrow in the transit direction, as shown in the picture	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
		Position the sample GD32 with the number **4** upside, and the associated arrow in the transit direction and the sample K8 on top of GD32, with the number **2** upside, and the associated arrow in the transit direction, as shown in the picture	YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐
			YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

STEP 4 - Overall result						
4.4 Verification of Combination Effects.						
The Metal Detector generated an alarm for each and every transit, orientation, position and Reference Samples specified.	☐ Standard 1		☒ Standard 2		☐ Standard 3	
	YES ☐	NO ☐	YES ☒	NO ☐	YES ☐	NO ☐

VERIFICATION OF THE CALIBRATION

4.5 Working parameter changes

Note possible parameter changes performed during the tests.

Parametre name	Starting value (sensitivity)	Final value (sensitivity)
K10 metal detection	30	07
2-teeth box cutter	08	00
GD 32 Metal test	22	07
Opinel test knife	50	33
Nıj test piece	13	02

Test pieces were hidden in locations such as pockets and inside the shoes of persons, and it was verified that the device gave alarm to these pieces. Similar performances were observed for magnetic and anti-magnetic metallic objects independently of their passage speed, location and orientation.

5. CONCLUSIONS

The installation can be validated when the procedure ends with

- Successful “Clean Tester” step
- 100% of detection, for each indicated location and orientation, of the Reference Test Samples, both by themselves and coupled.

CONSCLUSIONS AND CONSIDERATIONS

The ELEKTRAL brand, THRUSCAN sX-i model WTMD sample of ELEKTRAL ELEKTROMEKANİK SAN VE TİC A.Ş., with the serial number of 10082601, was found to meet the required criteria, functions and sensitivity after the tests and controls conducted on 02.09.2010 in comply with ECAC (European Civil Aviation Covference) Standart 2.

In all these aforementioned steps, ECAC Standart 2 Test Piece, OPINEL brand No:10 Jackknife, NIJ, NILECJ 0601 and TSA test kits provided by the related firm were used.

This report is valid only for the tested sample.

This report hereby was prepared on 02.09.2010 in 38(Thirty-eight) pages and in 4(four) copies.