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TECHNICAL REPORT **RAPPORTO TECNICO** no. MEC 10117.00 Rev. 02 Dated 2011-01-11

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E' ammessa soltanto la riproduzione integrale del presente rapporto di prova. Qualsiasi utilizzo a scopo pubblicitario deve essere autorizzato per iscritto. I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova e non sono estendibili ad altri prodotti della normale produzione

Client: IND.I.A S.p.A
Cliente: Via Vicenza, 6/14
36034 Malo (VI)
Customer code: 73445
Contact person: Mr. Dario GONZATO

Manufacturing place: IND.I.A S.p.A
Luogo di produzione: Via Vicenza, 6/14
36034 Malo (VI)
Customer code: 73445
Contact person: Mr. Dario GONZATO

Test subject: Product: Balaustrades
Prodotto sottoposto a prova: Trade mark: ARTEFERRO
Models: PARAPETTI SISTEMA INOX; MONTANTI EXTRA STRONG;
GLASSU EXTRA STRONG; GLASS U.

Test specification: *Specifiche di prova:* PPP 56003:2010

Purpose of examination: Test according to the test specification
Scopo della prova: *Collaudo effettuato in accordo alle specifiche di prova*

Test result: *Risultato della prova:* The test results show that the presented product is in compliance with the specified requirements.
I risultati dei test dimostrano la conformità del prodotto con i requisiti specifici applicabili.

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1 Description of the test subject

Descrizione del campione sottoposto a prova

Balaustrades
Balaustre

1.1 Function *Funzione*

Manufacturer's specification for intended use:
Specifiche del costruttore per l'uso previsto:

Balaustrades
Balaustre

1.2 Consideration of the foreseeable misuse

Considerazioni sull'uso improprio prevedibile

- Not applicable
- Covered through the applied standard
- Covered by the following comment
- Covered by attached risk analysis

- Non applicabile*
- Coperte dalla normativa applicabile*
- Riportate nei seguenti commenti*
- Coperte dall'analisi dei rischi allegato*

The foreseeable misuse has been properly predicted by the manufacturer; The instruction manual of the product contains all the information related to "what should not be done".

L'uso improprio è stato valutato correttamente e in maniera esaustiva dal costruttore; sul manuale delle istruzioni del prodotto sono riportate tutte le informazioni necessarie per definire "Che cosa non deve essere fatto".

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1.3 Technical Data

Dati tecnici

Code	Material	Longitudinal force applied [Kg/ml]	Test campaign from point „a“ to „h“
PARAPETTI SISTEMA INOX			
E020	AISI 304	150	Positive
E0042	AISI 304	150	Positive
E0069	AISI 303	150	Positive
E0104	AISI 303	150	Positive
E113	AISI 304	150	Positive
E0127	AISI 303	150	Positive
E00450	AISI 304	150	Positive
E01112	AISI 316	150	Positive
ED06	AISI 303	150	Positive
ED06 SX	AISI 303	150	Positive
ETM04DX	AISI 304	150	Positive
ETM04SX	AISI 304	150	Positive
KIT 1 1.5 kN	AISI 304	150	Positive
KIT 2 1.5 kN	AISI 304	150	Positive
KIT 3 1.5 kN	AISI 304	150	Positive
KIT 4 1.5 kN	AISI 304	150	Positive
KIT 5 1.5 kN	AISI 304	150	Positive
KIT 6 1.5 kN	AISI 304	150	Positive
KIT 7 1.5 kN	AISI 304	150	Positive
KIT 8 1.5 kN	AISI 304	150	Positive
GLASS U EXTRA STRONG			
E1800100 Profilo 3 kN	Al 6060 T6	300	Positive
Profili in gomma per vetro 26.5/27	Rubber	300	Positive
Profili in gomma per vetro 30.5/31	Rubber	300	Positive
E1800200 Staffa Piana	Fe360	300	Positive
E1800300 Staffa a sbalzo	Fe360	300	Positive
E1800400 Staffa angolare	Fe360	300	Positive
E1800500 Staffa affogata	Fe360	300	Positive
E020	AISI 304	300	Positive
E01112	AISI 316	300	Positive

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MONTANTI EXTRA STRONG			
KIT 1 - 3 kN extra strong	AISI 304	300	Positive
KIT 2 - 3 kN extra strong	AISI 304	300	Positive
KIT 3 - 3 kN extra strong	AISI 304	300	Positive
KIT 4 - 3 kN extra strong	AISI 304	300	Positive
E00423KNS	AISI 304	300	Positive
E00423KNF	AISI 304	300	Positive
E004503KNS	AISI 304	300	Positive
E004503KNF	AISI 304	300	Positive
GLASS U			
E1600100	AI 6060 T6	200	Positive
E1700200	AI 6060 T6	200	Positive
E1999800	EPDM	200	Positive
E1999810	EPDM	200	Positive
E1999830	EPDM	200	Positive
E1999840	EPDM	200	Positive
E1999850	EPDM	200	Positive
E1999860	EPDM	200	Positive

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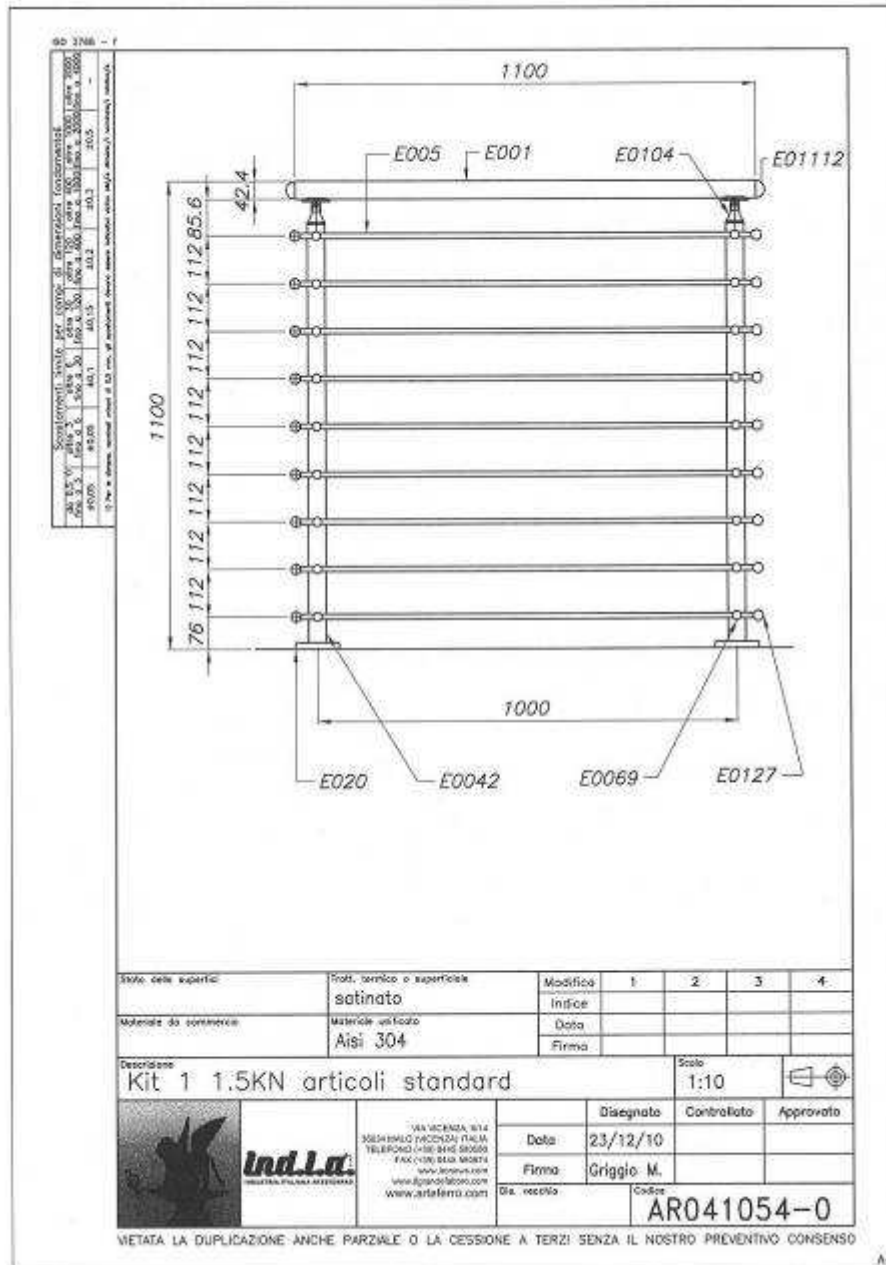


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Drawings_PARAPETTI SISTEMA INOX



Code Kit 1 – 1.5 kN

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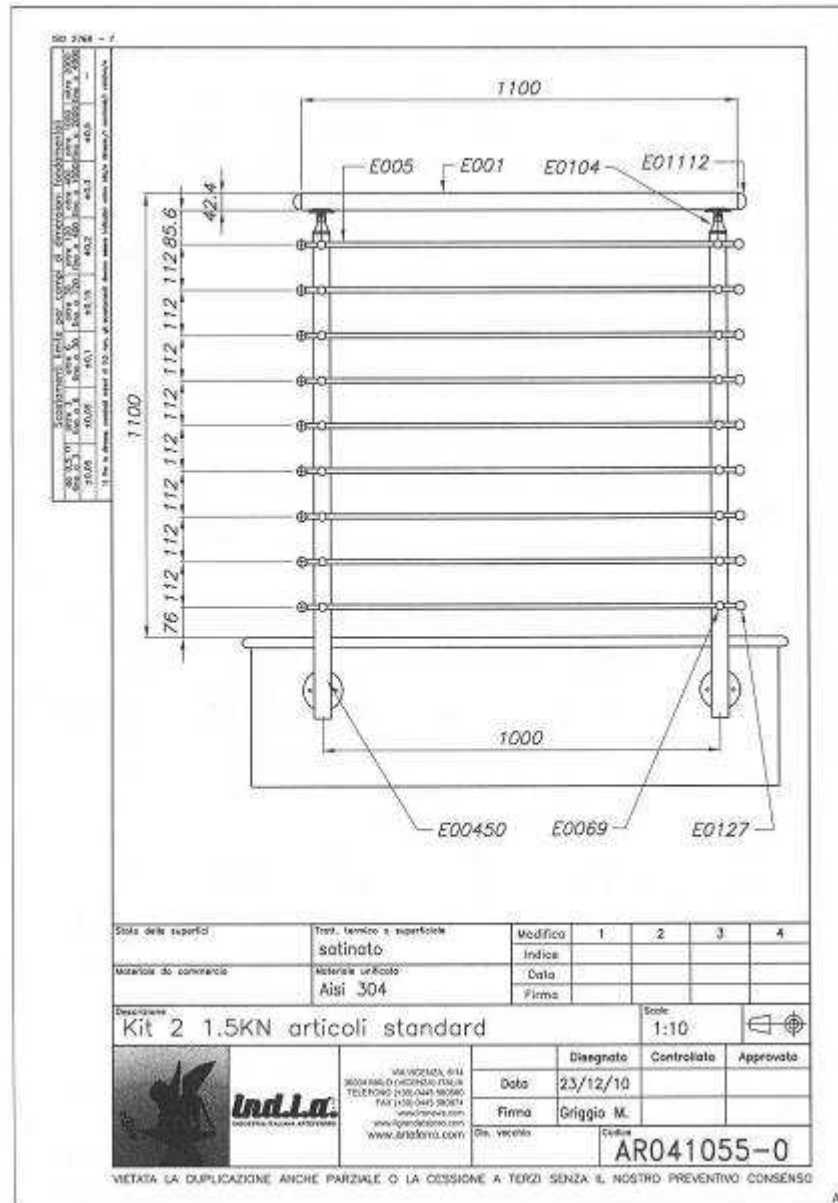
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Code Kit 2 – 1.5kN

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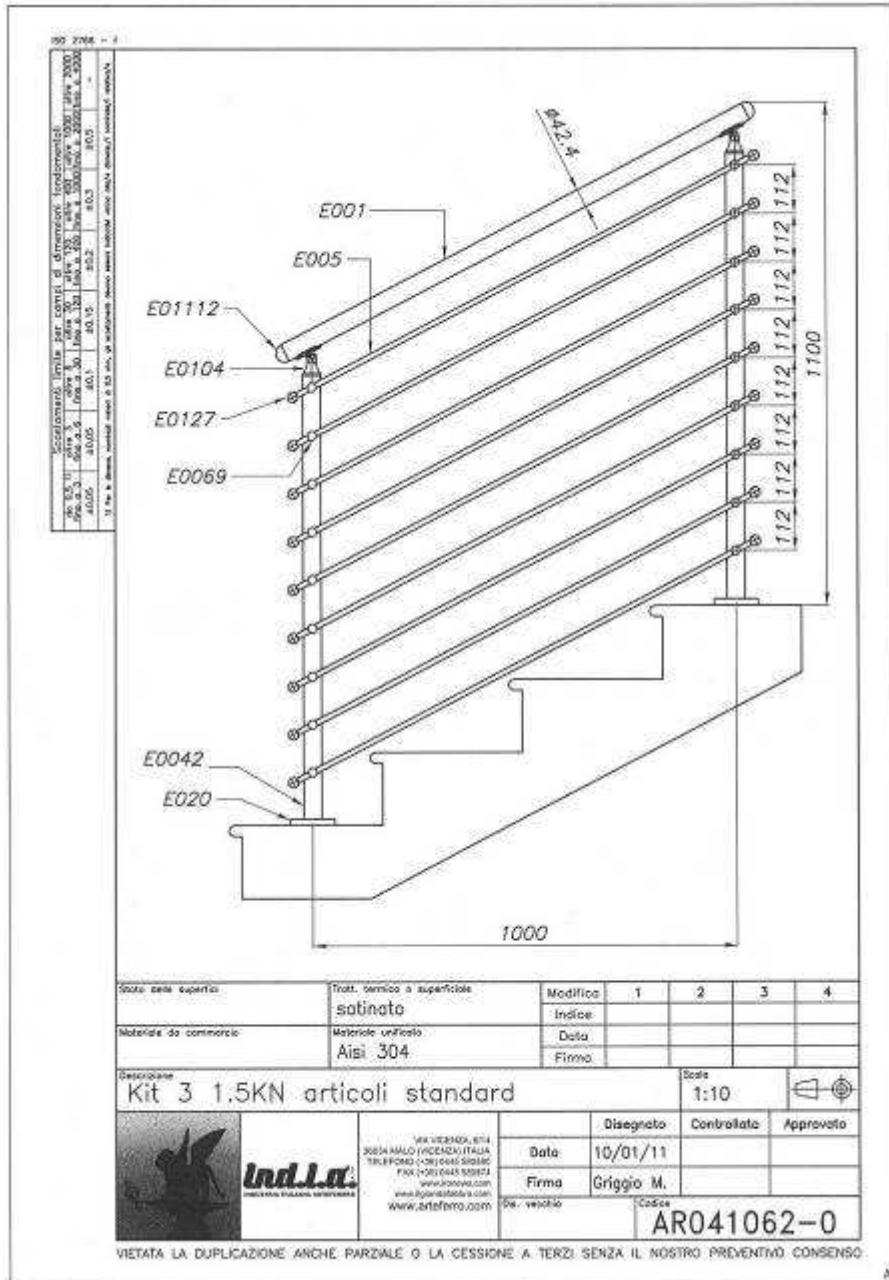
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Code Kit 3 – 1.5kN

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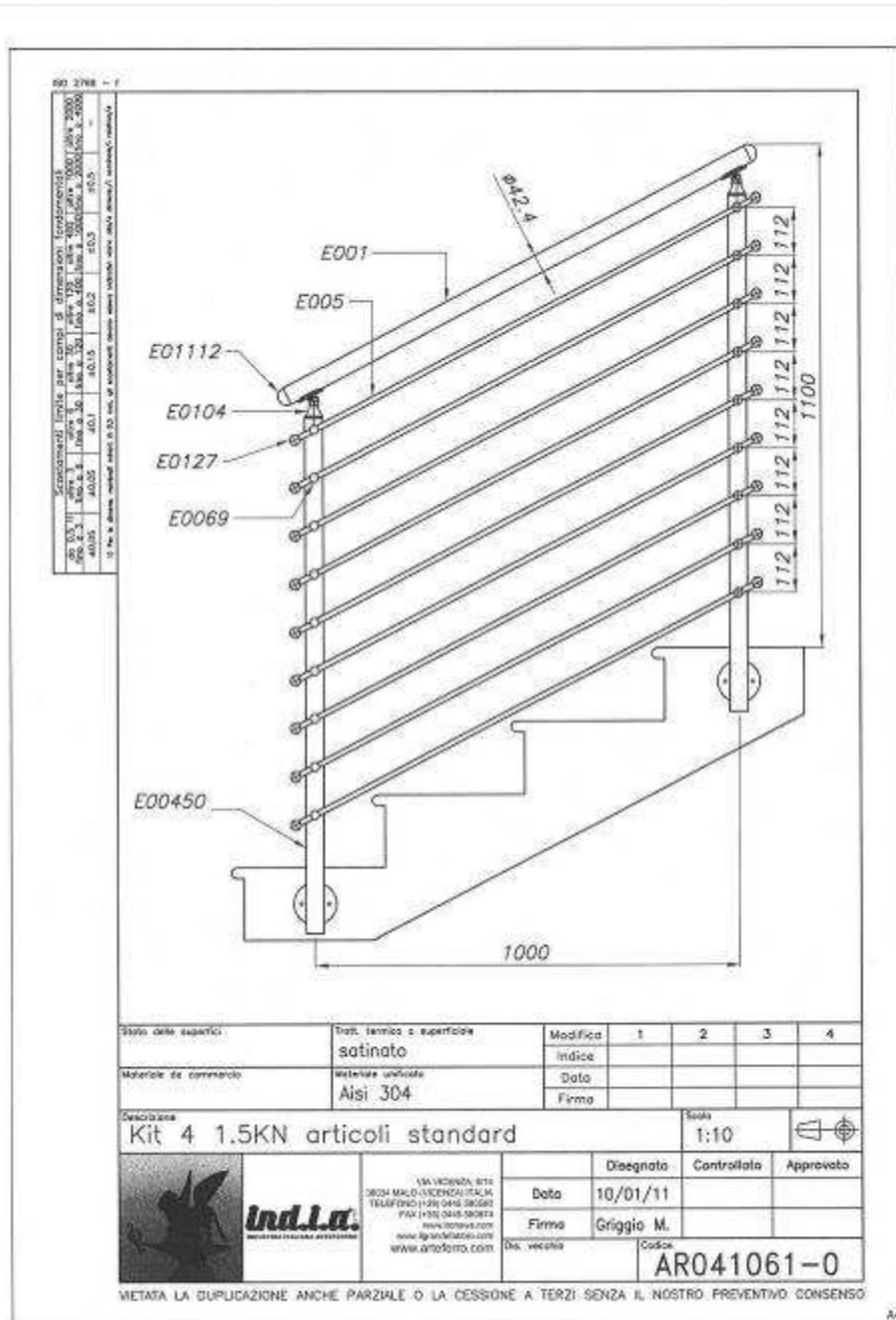
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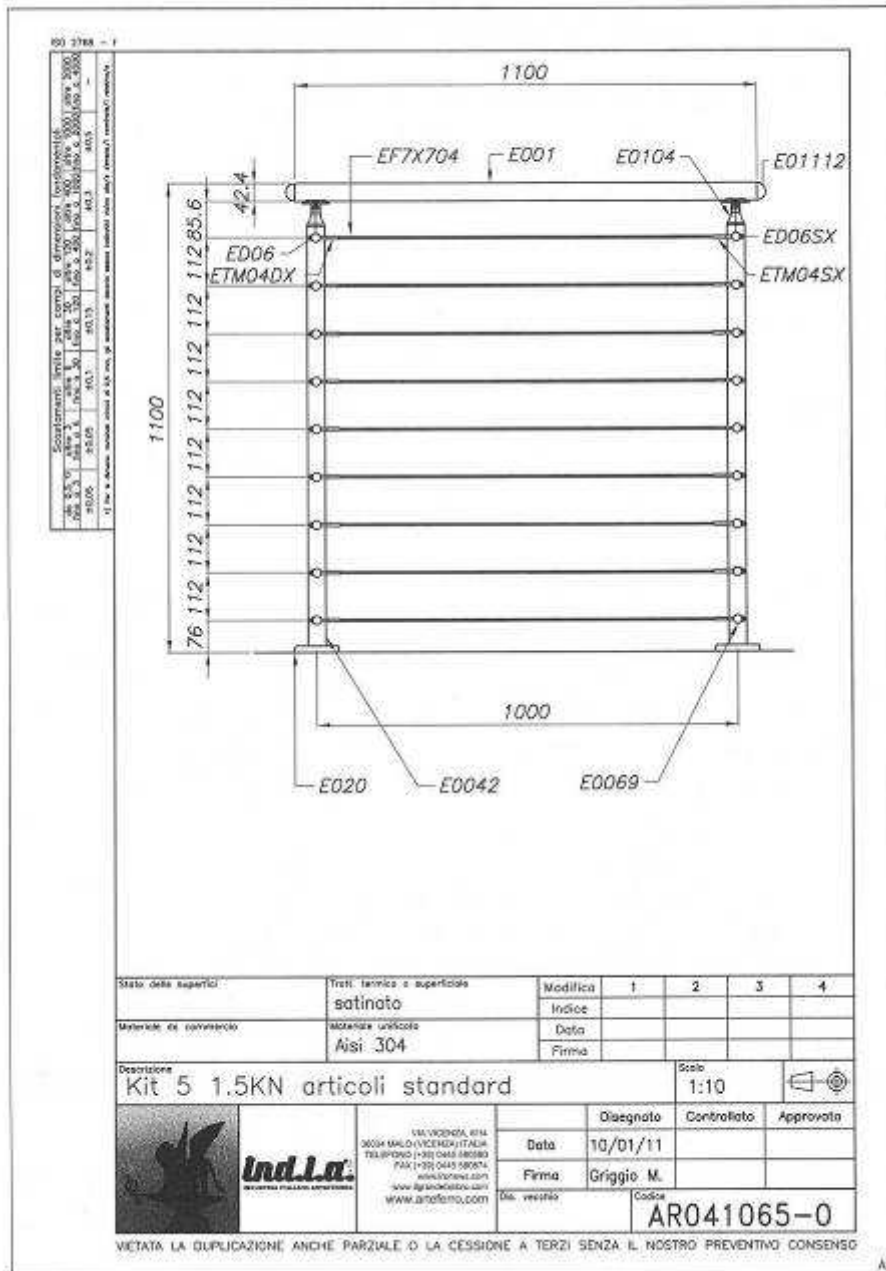
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Code Kit 5 – 1.5KN

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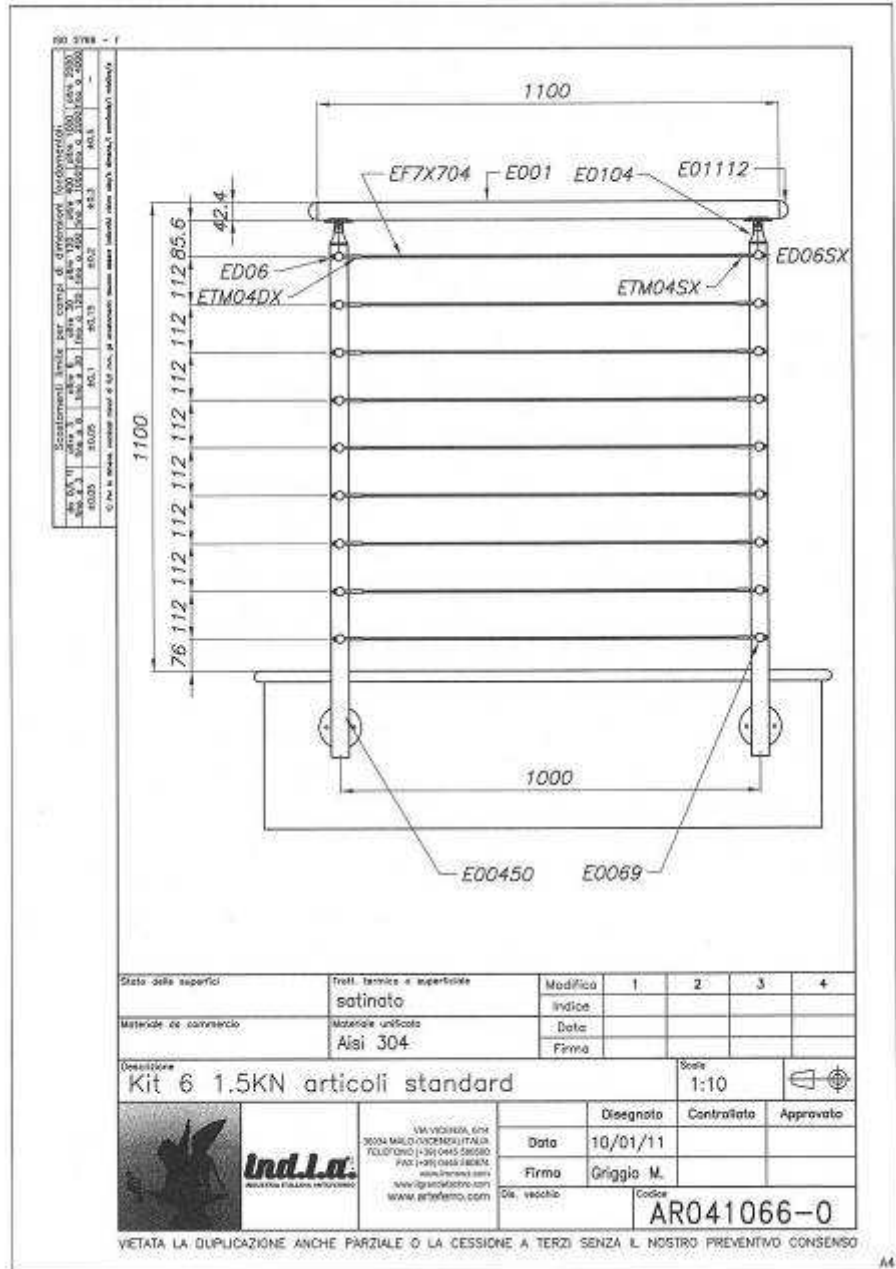
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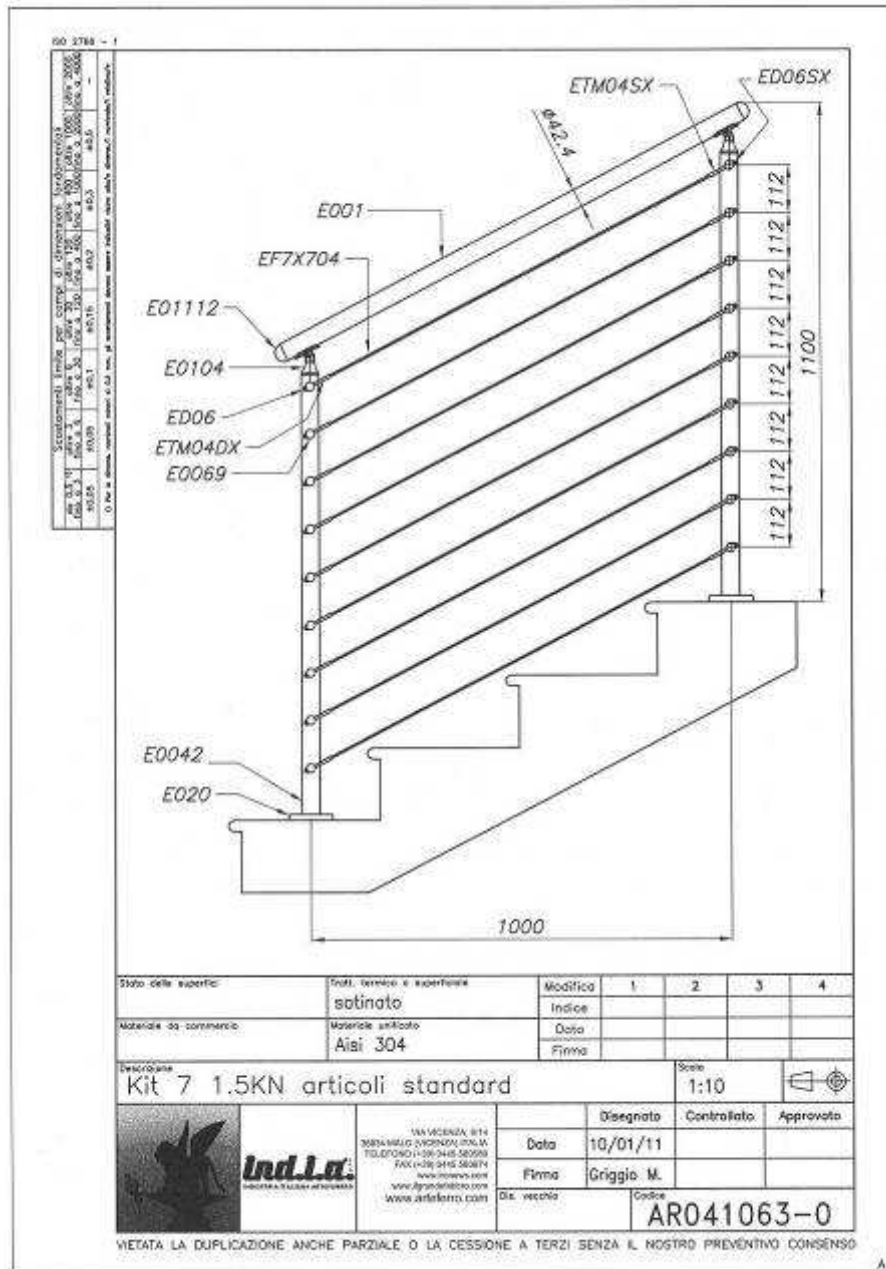
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Code Kit 7 1.5 kN

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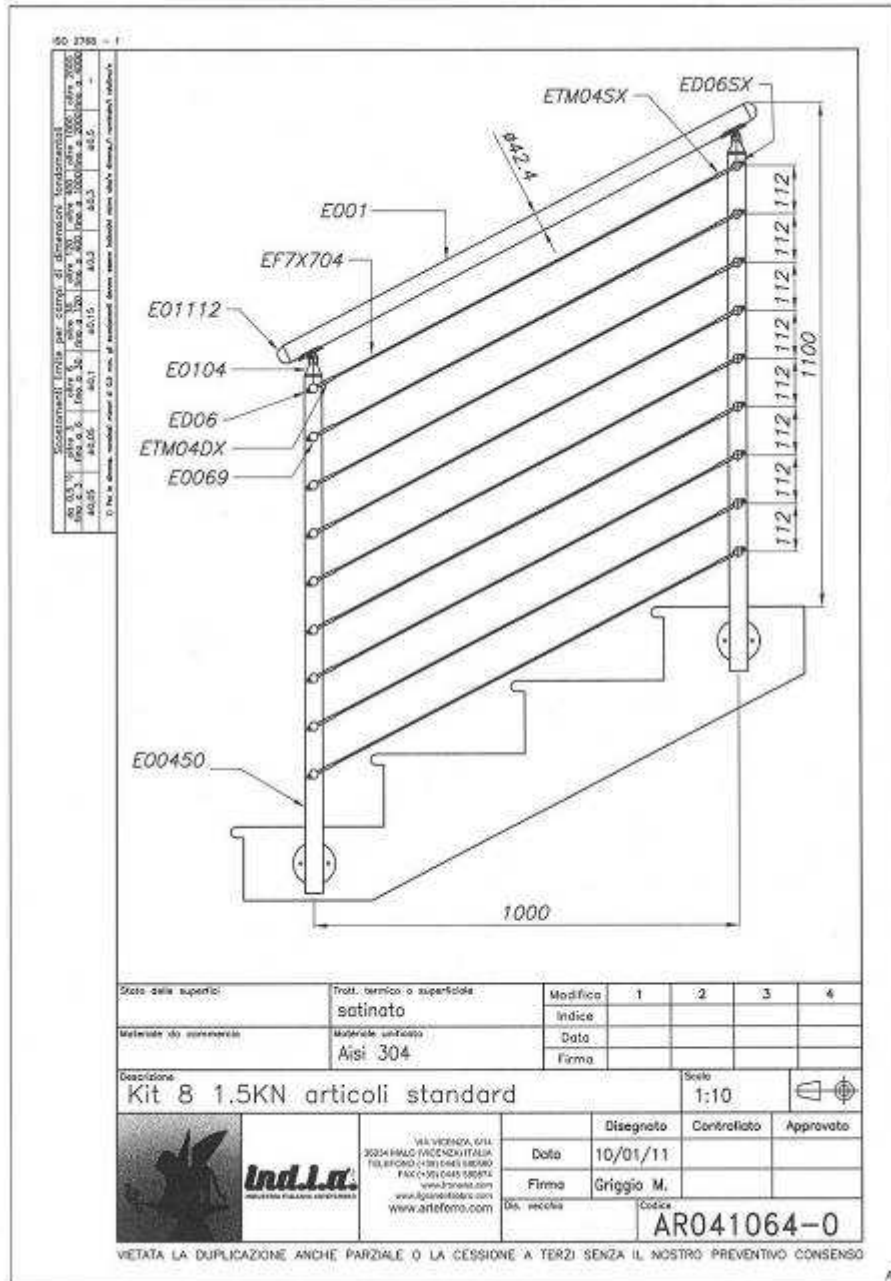
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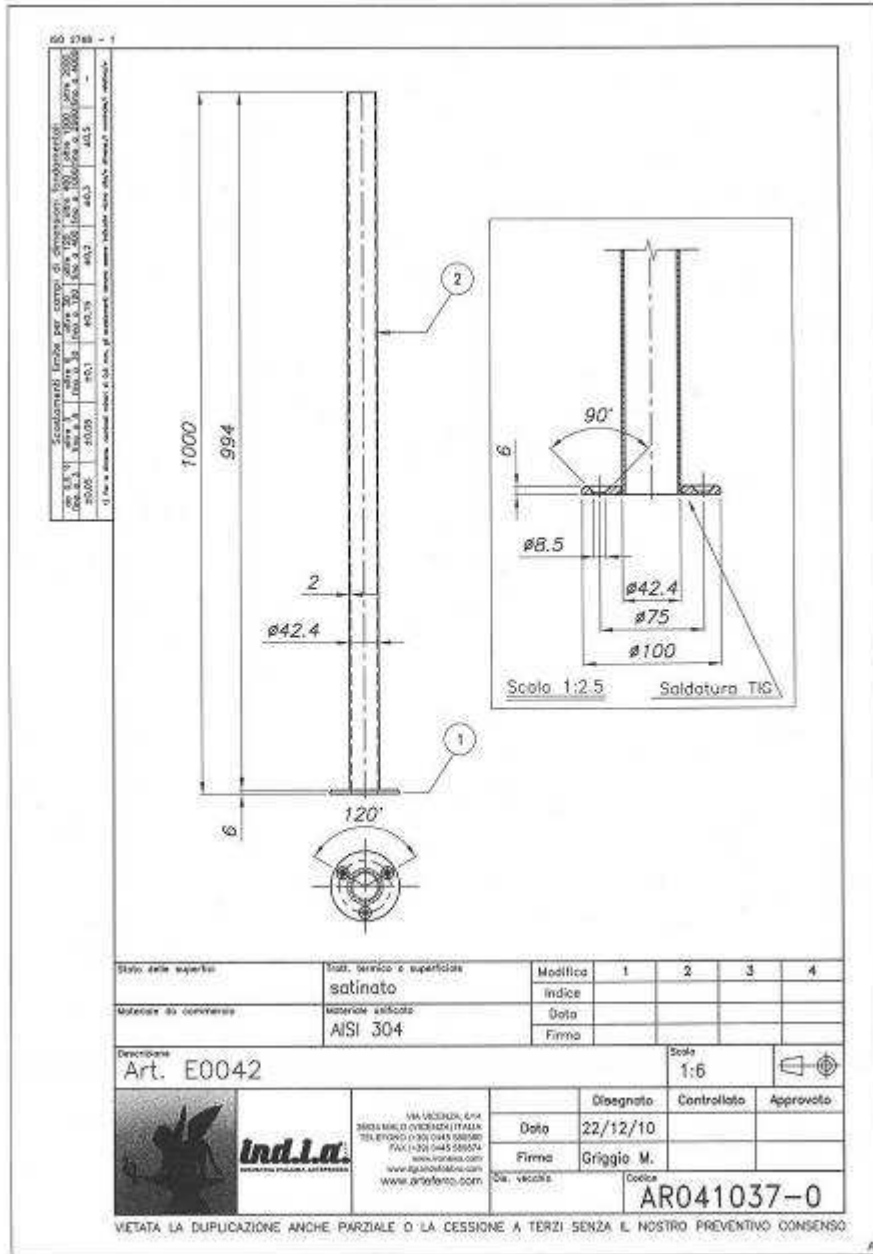
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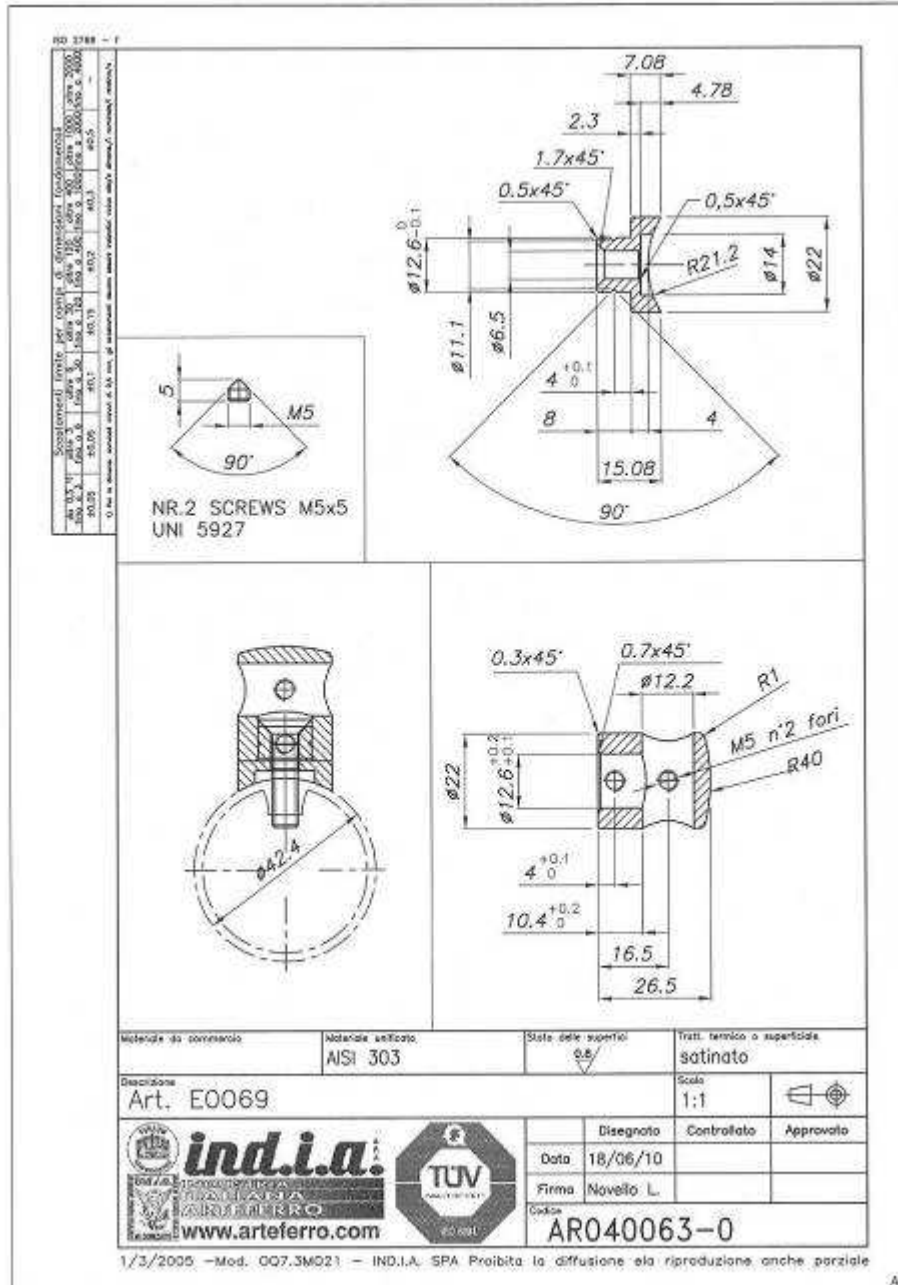
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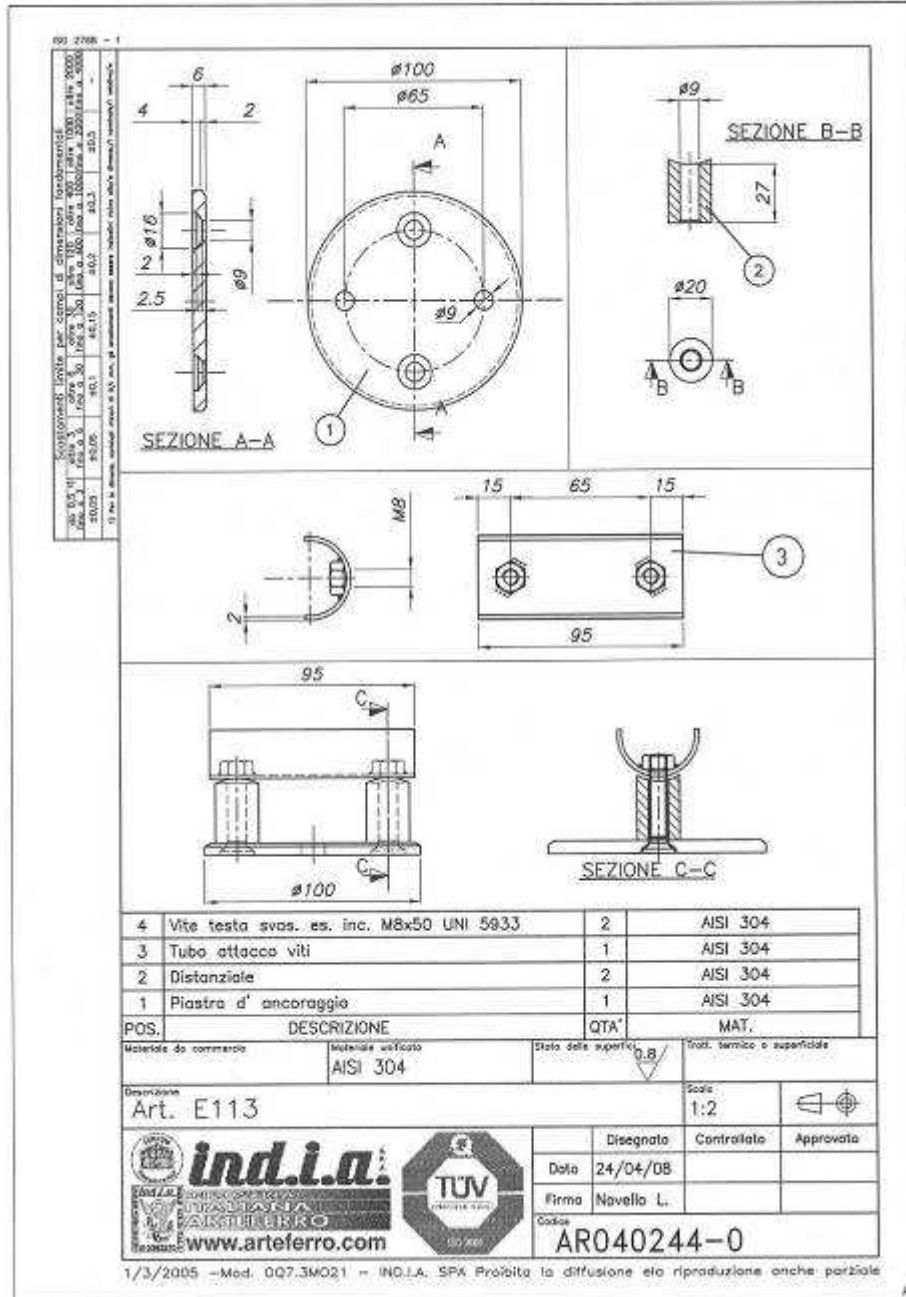
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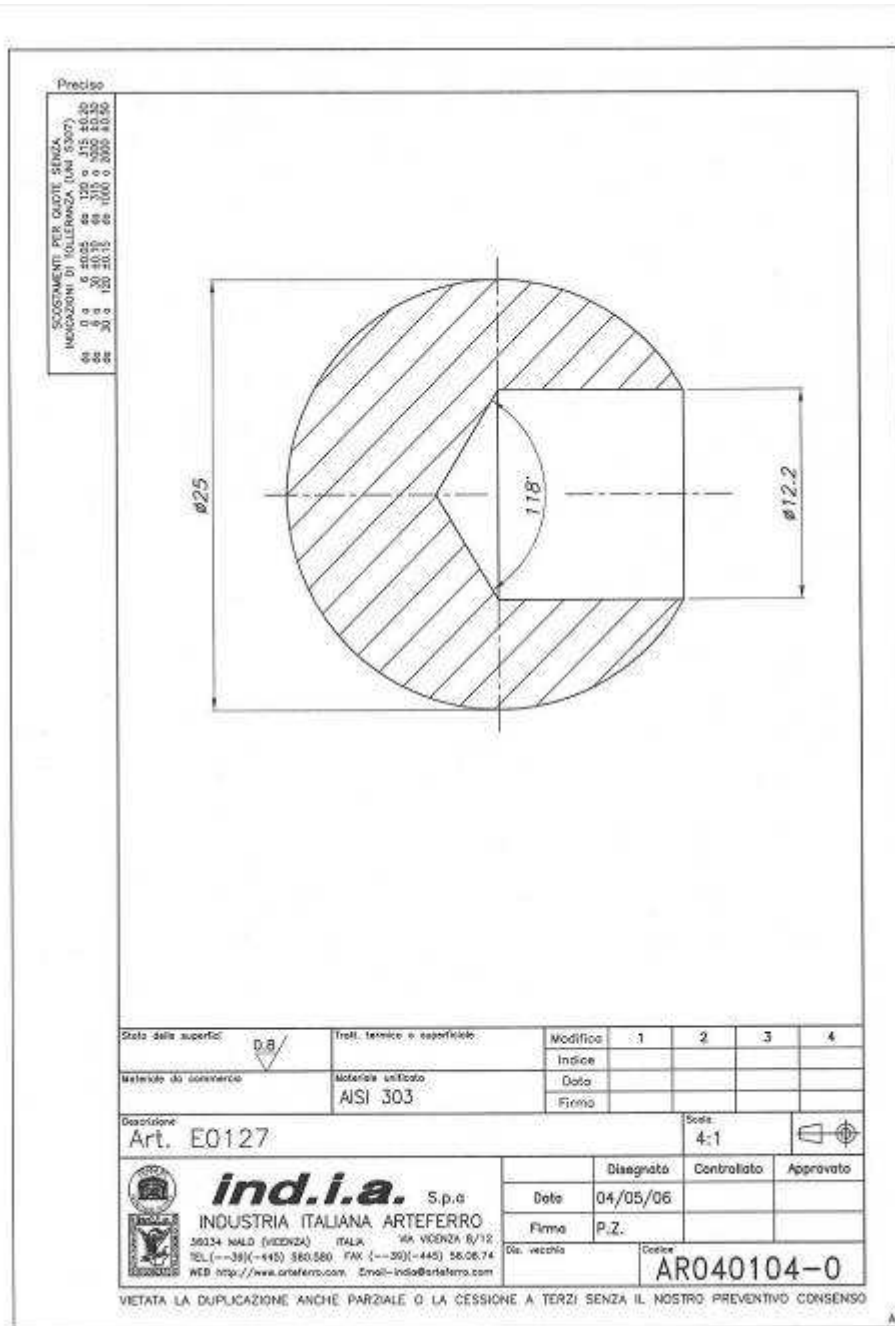
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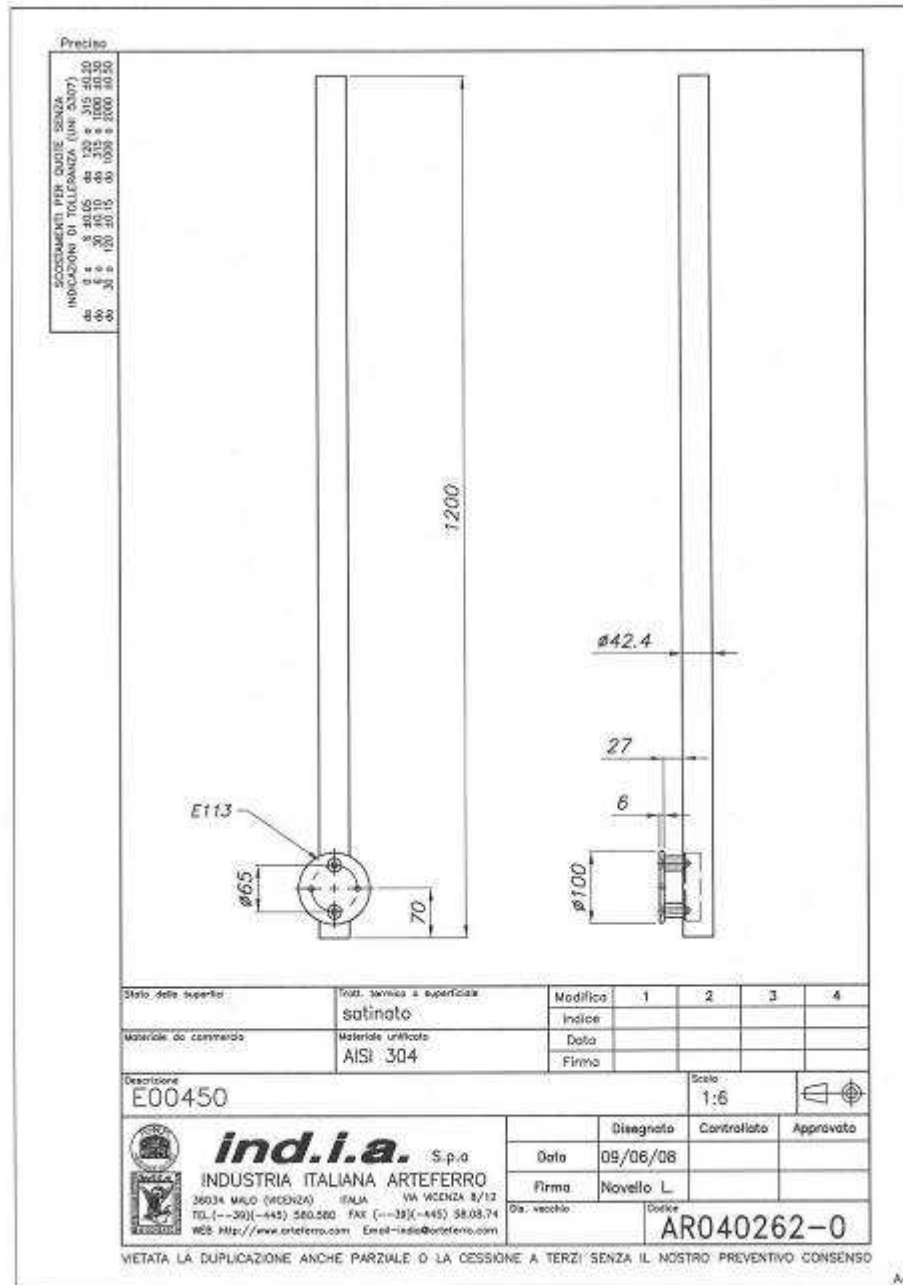
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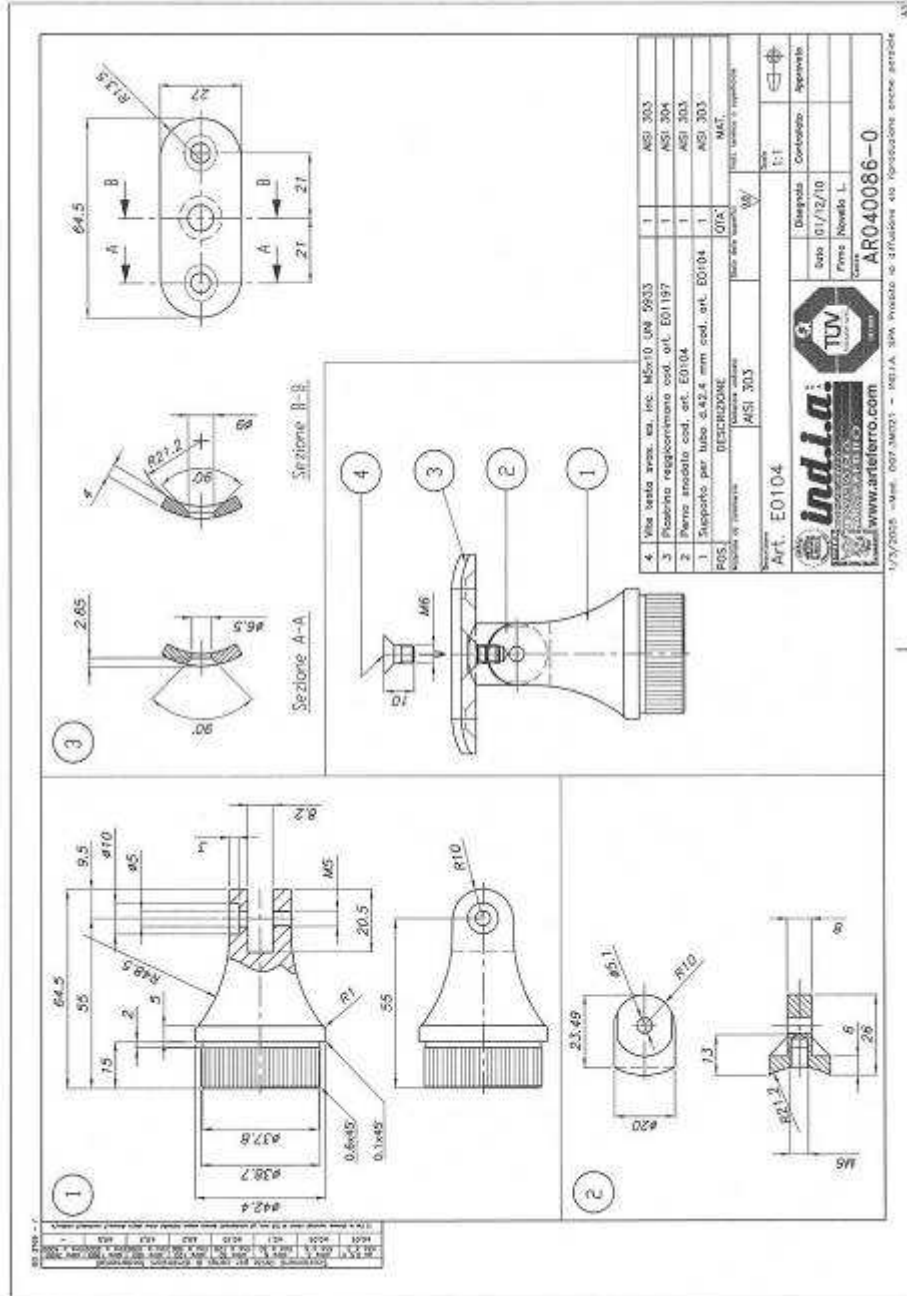
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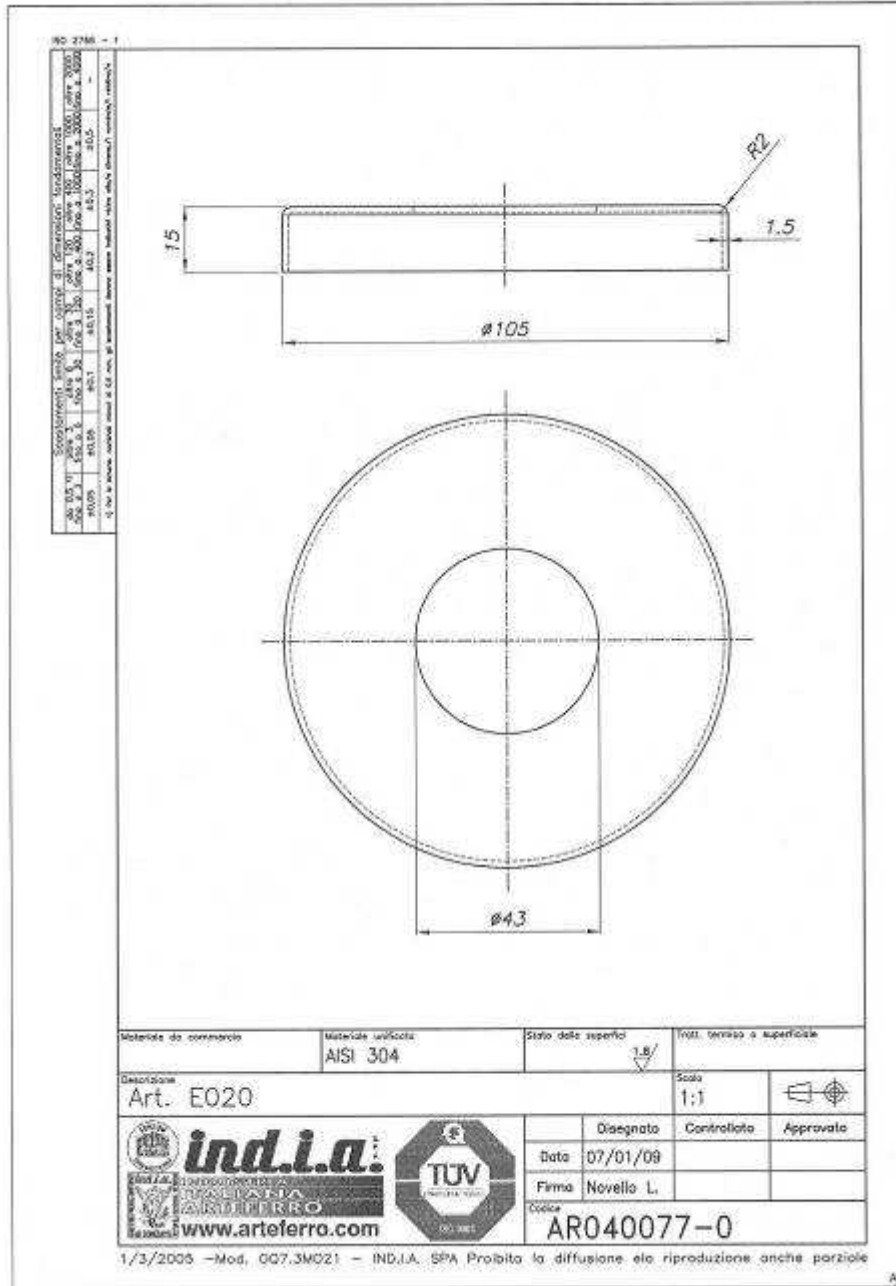
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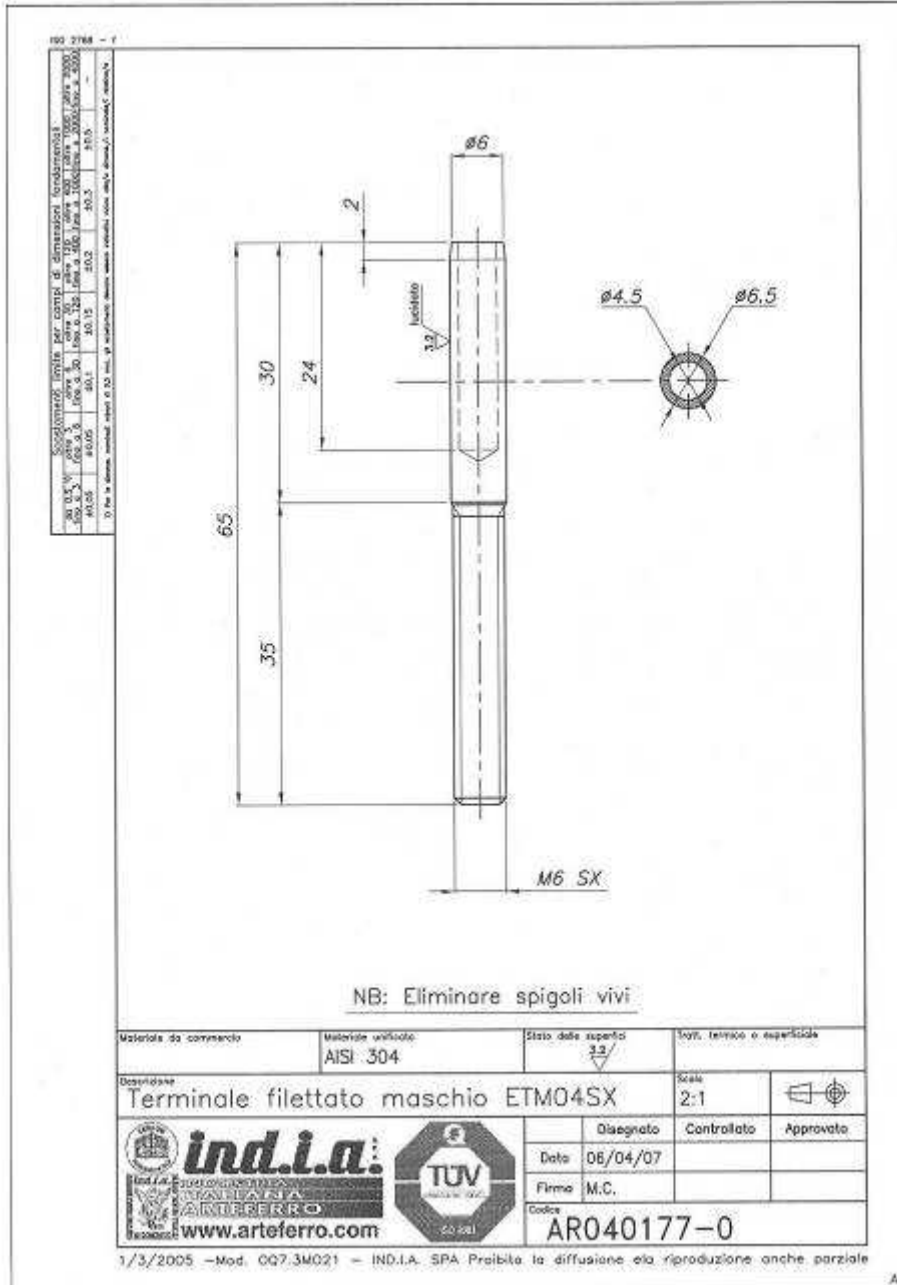
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Code ETM04SX

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Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
 Technical report no.: MEC 10117.00
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 Page 20 of 56

Project manager:
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Choose certainty.
Add value.

Preciso

SOSTITUIRE PER NUOVE SENZA
 INDICAZIONE DI TOLLERANZA (UNI 2027)
 00 ± 0.05 00 1.10 ± 0.10 00 30 ± 0.30
 00 ± 0.05 00 1.10 ± 0.10 00 30 ± 0.30
 00 ± 0.05 00 1.10 ± 0.10 00 30 ± 0.30
 00 ± 0.05 00 1.10 ± 0.10 00 30 ± 0.30

Stato della superficie	Treat. termico e superficiale	Modifica	1	2	3	4
		Indice				
Materiale di consegna	Materiale qualificato	Data				
	Aisi 303	Firma				
Descrizione art. ED06		Scala	2:1			
Ind.i.a. S.p.a INDUSTRIA ITALIANA ARTEFERRO 38034 MALO (VICENZA) ITALIA VA MEDAZA 8/12 TEL (+39)(0)445 560.560 FAX (+39)(0)445 56.06.74 WEB http://www.arteferro.com Email india@arteferro.com		Disegnato	Controlato	Approvato		
		Data	22/09/08			
		Firma	Novello L.			
		Dis. vecchio	Codice			
		AR040047-0				

VIETATA LA DUPLICAZIONE ANCHE PARZIALE O LA CESSIONE A TERZI SENZA IL NOSTRO PREVENTIVO CONSENSO

Code ED06

Code 11/00

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Document name: MEC 10117.00
 Technical report no. : MEC 10117.00
 Revision: 02
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Project manager:
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Preciso

CONFORMITÀ PER QUOTE SENZA INDICAZIONI DI TollerANZA (UNI 5307)

0	± 0.05	± 0.10	± 0.15	± 0.20
05	± 0.05	± 0.10	± 0.15	± 0.20
10	± 0.05	± 0.10	± 0.15	± 0.20
15	± 0.05	± 0.10	± 0.15	± 0.20
20	± 0.05	± 0.10	± 0.15	± 0.20
25	± 0.05	± 0.10	± 0.15	± 0.20
30	± 0.05	± 0.10	± 0.15	± 0.20
40	± 0.05	± 0.10	± 0.15	± 0.20
50	± 0.05	± 0.10	± 0.15	± 0.20
63	± 0.05	± 0.10	± 0.15	± 0.20
80	± 0.05	± 0.10	± 0.15	± 0.20
100	± 0.05	± 0.10	± 0.15	± 0.20
125	± 0.05	± 0.10	± 0.15	± 0.20
160	± 0.05	± 0.10	± 0.15	± 0.20
200	± 0.05	± 0.10	± 0.15	± 0.20
250	± 0.05	± 0.10	± 0.15	± 0.20
315	± 0.05	± 0.10	± 0.15	± 0.20
400	± 0.05	± 0.10	± 0.15	± 0.20
500	± 0.05	± 0.10	± 0.15	± 0.20
630	± 0.05	± 0.10	± 0.15	± 0.20
800	± 0.05	± 0.10	± 0.15	± 0.20
1000	± 0.05	± 0.10	± 0.15	± 0.20

Stato della superficie	Trott. termico e superficiale	Modifica	1	2	3	4
Materiale da commercio	Materiale utilizzato	Indice				
	Aisi 303	Data				
		Firma				
Descrizione		Scale				
art. ED06SX		2:1				
Ind.l.a. S.p.a. INDUSTRIA ITALIANA ARTEFERRO 39034 MALO (VICENZA) ITALIA VIA WISENZA 8/12 TEL (+39) 0445 585.580 FAX (+39) 0445 38.98.74 WEB http://www.arteferro.com Email info@arteferro.com		Disegnato	Controllato	Approvato		
		Data	22/09/08			
		Firma	Novello L.			
		Dis. vecchio		Code	AR040313-0	

VIETATA LA DUPLICAZIONE ANCHE PARZIALE O LA CESSIONE A TERZI SENZA IL NOSTRO PREVENTIVO CONSENSO

Code ED06SX

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
 Technical report no. : MEC 10117.00
 Revision: 02
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Project manager:
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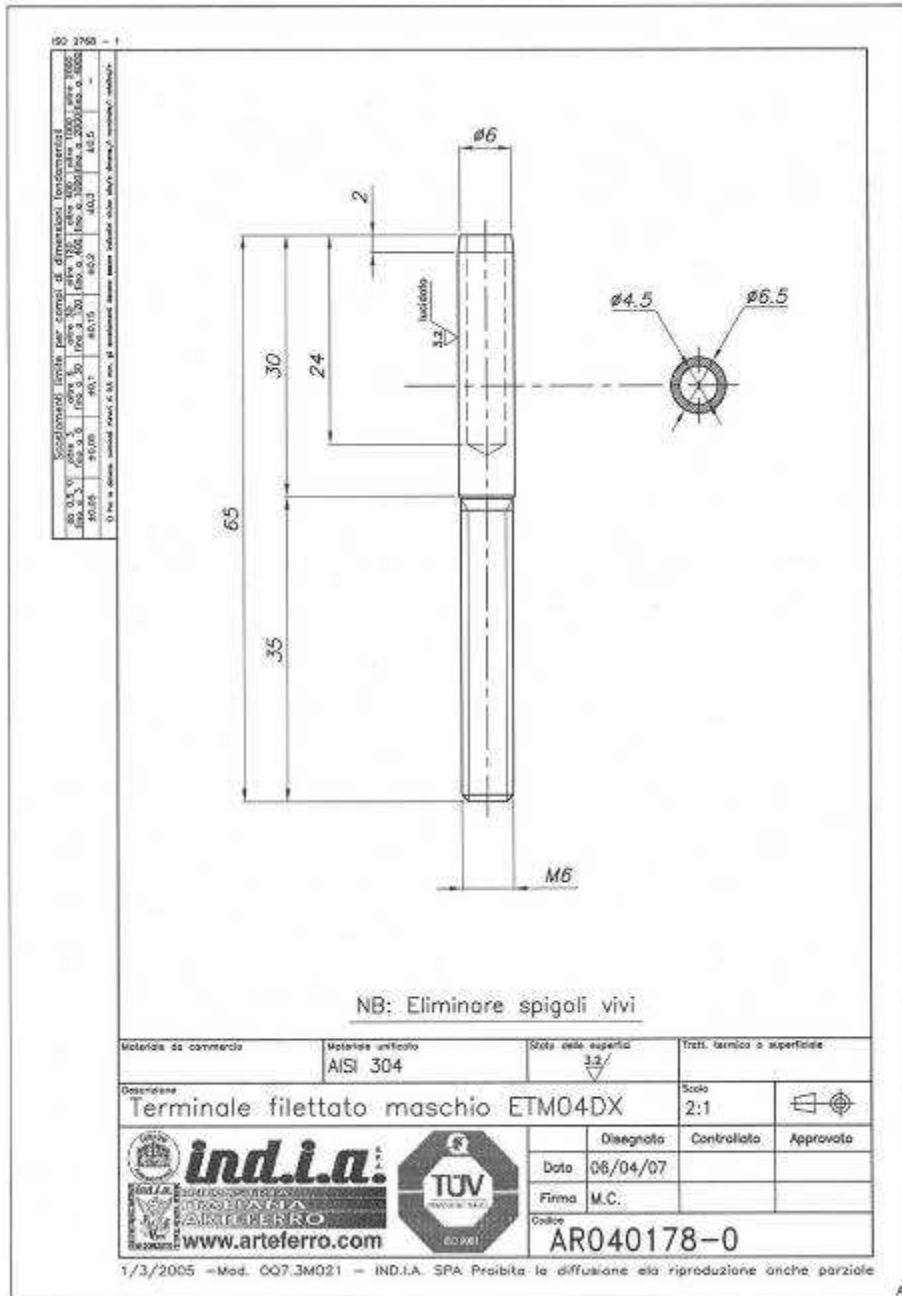
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Code ETM04DX

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
 Technical report no.: MEC 10117.00
 Revision: 02
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Project manager:
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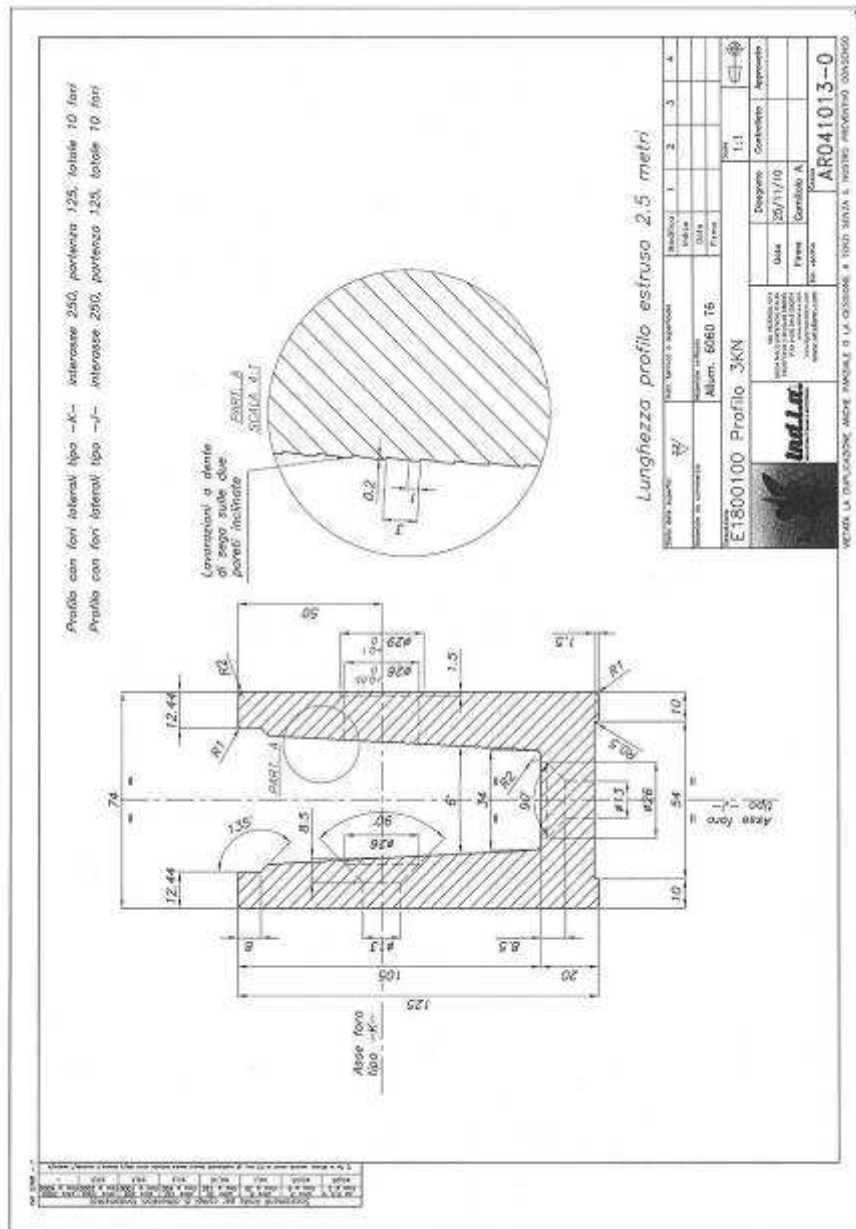


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Drawings_GLASS U EXTRA STRONG



Code E1800100 Profilo 3kN

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no.: MEC 10117.00
Revision: 02
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Project manager:
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Divisione PS-TEC

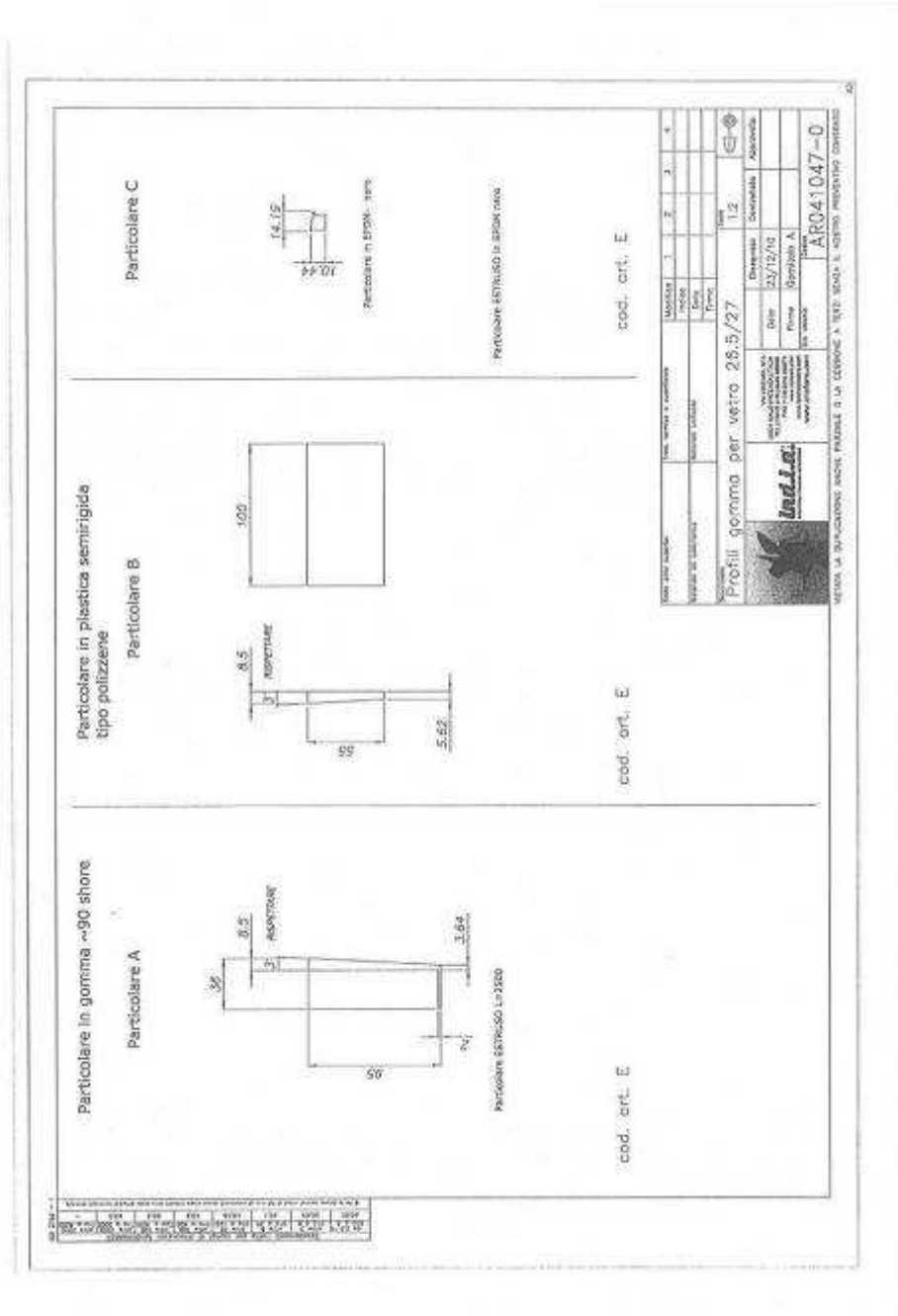
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Code Profili gomma per vetro 26.5/27

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
Revision: 02
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Project manager:
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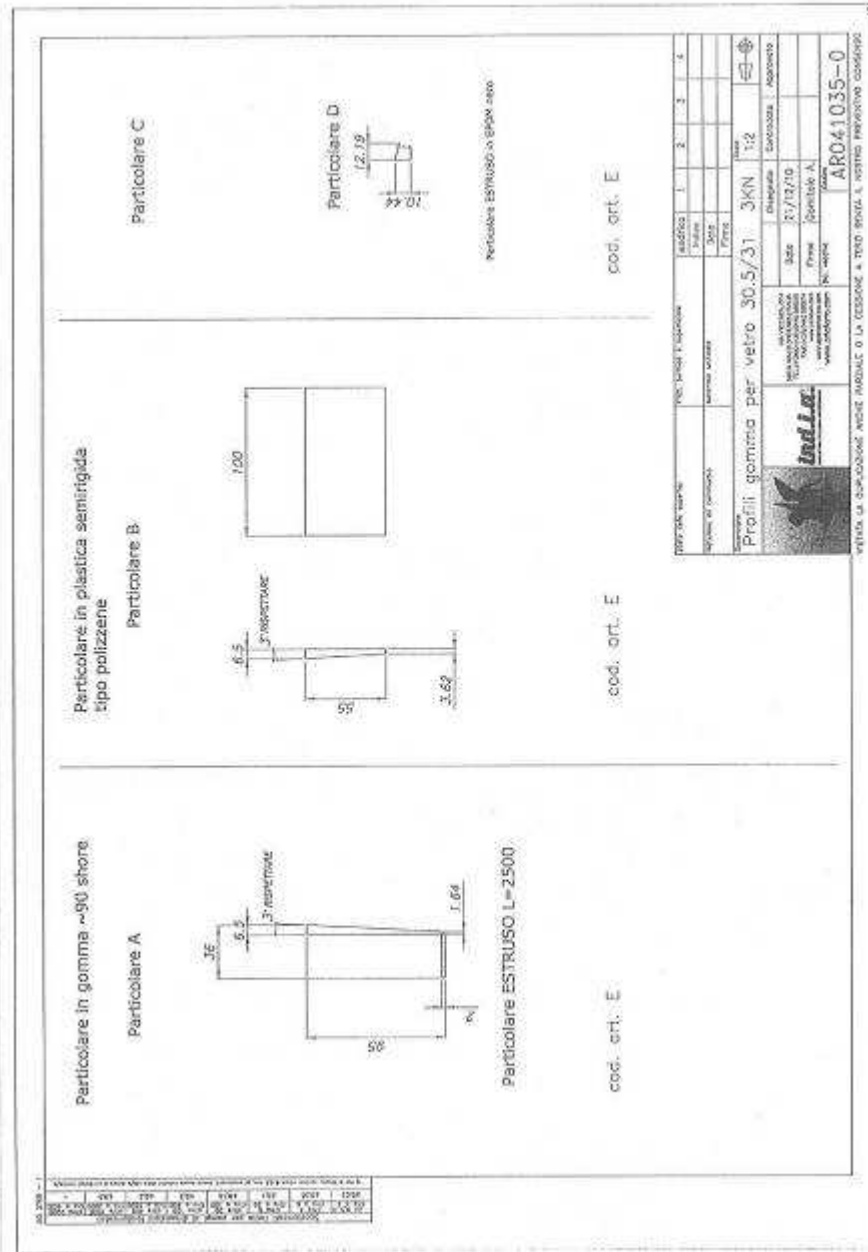
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Code Profili gomma per vetro 30.5/31

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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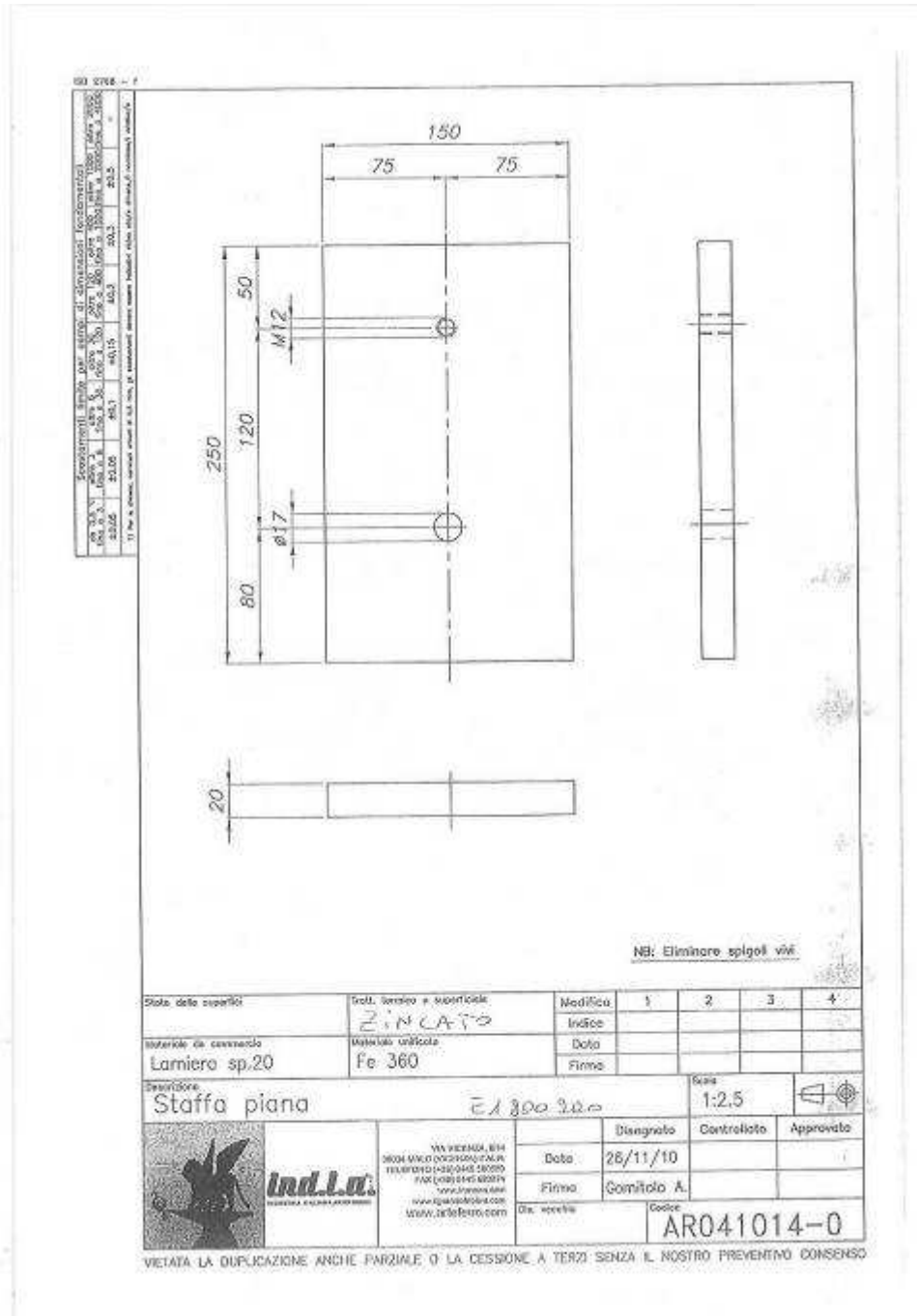
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Code E1800200 Staffa piana

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no.: MEC 10117.00
Revision: 02
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Project manager:
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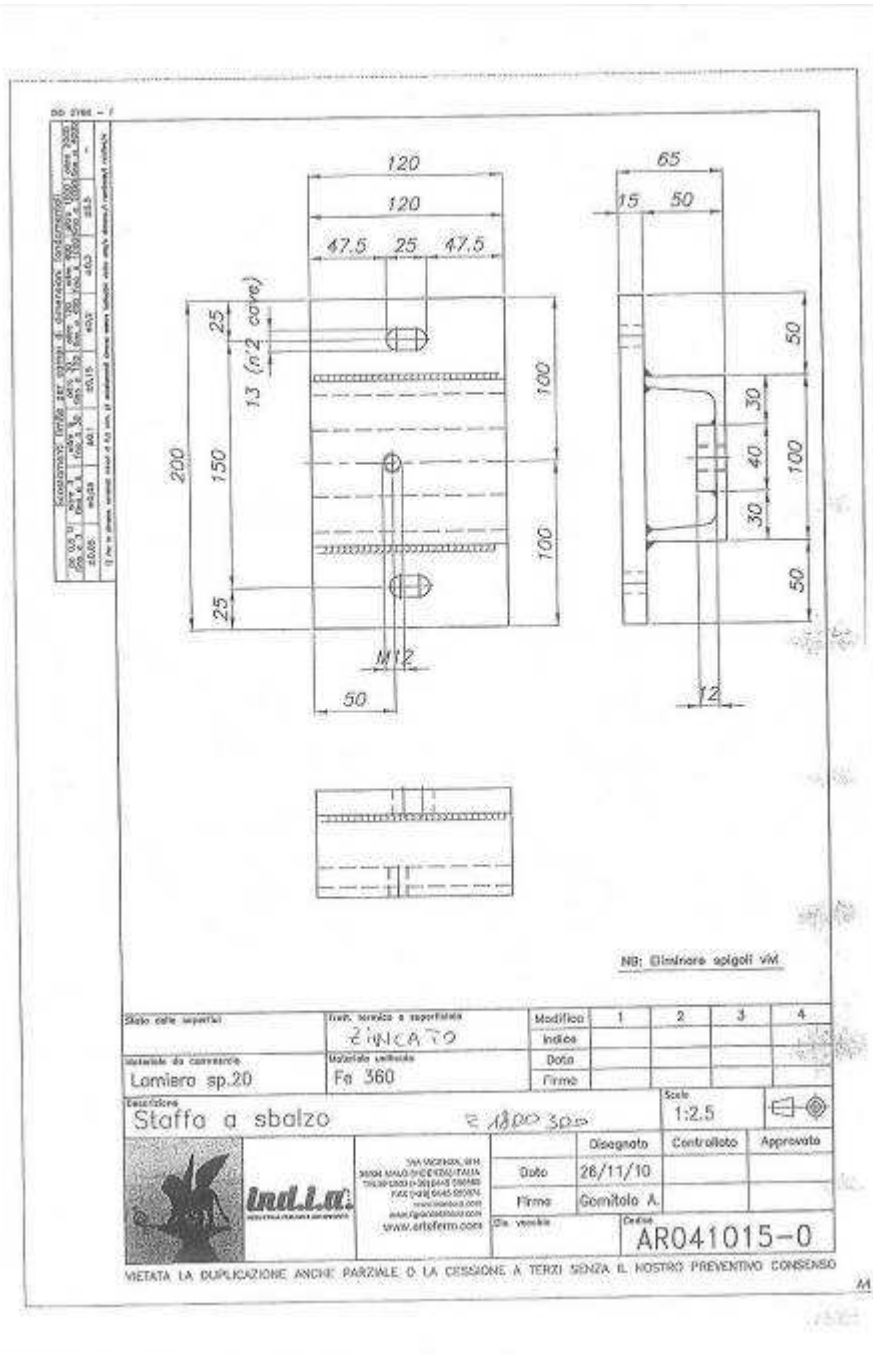
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Code E1800300 Staffa a sbalzo

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no.: MEC 10117.00
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Project manager:
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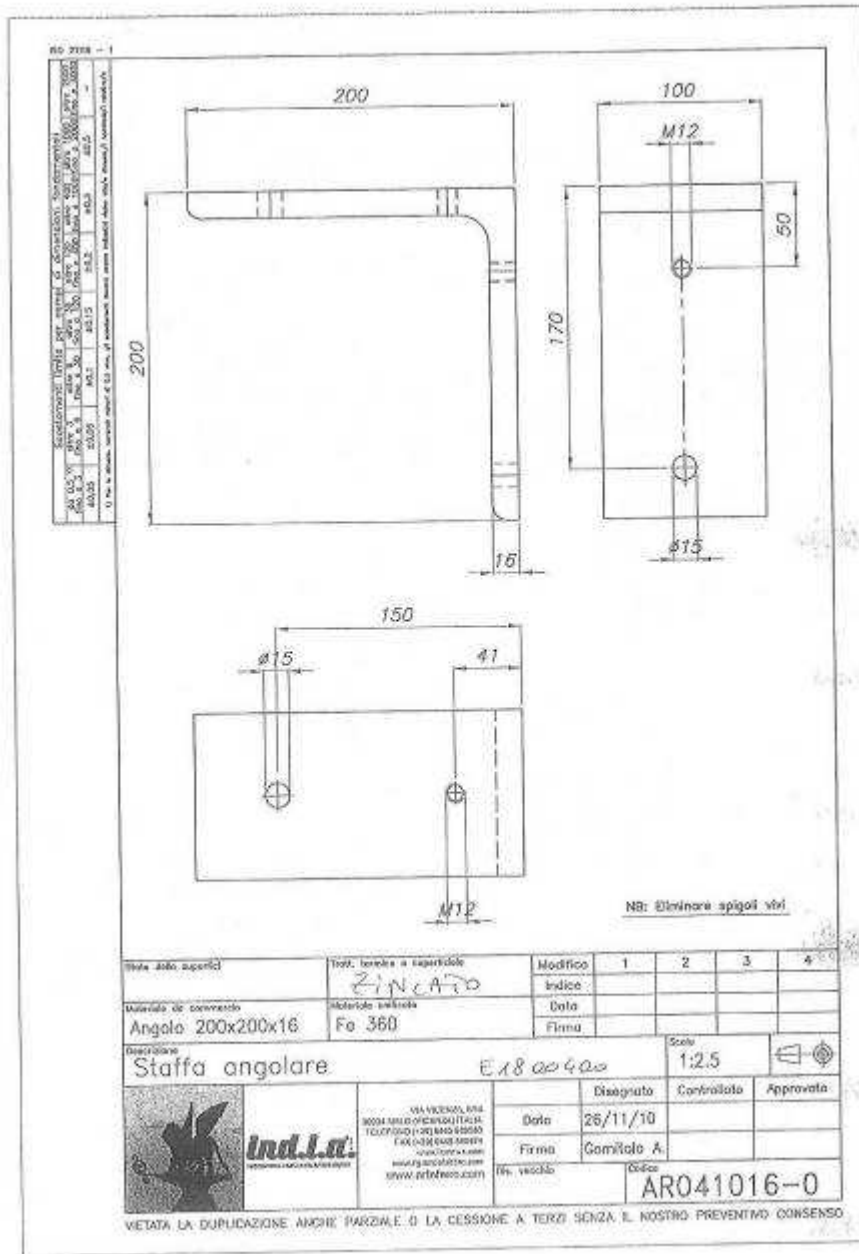
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Code E1800400 Staffa angolare

Code 11/00

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Document name: MEC 10117.00
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Project manager:
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Divisione PS-TEC

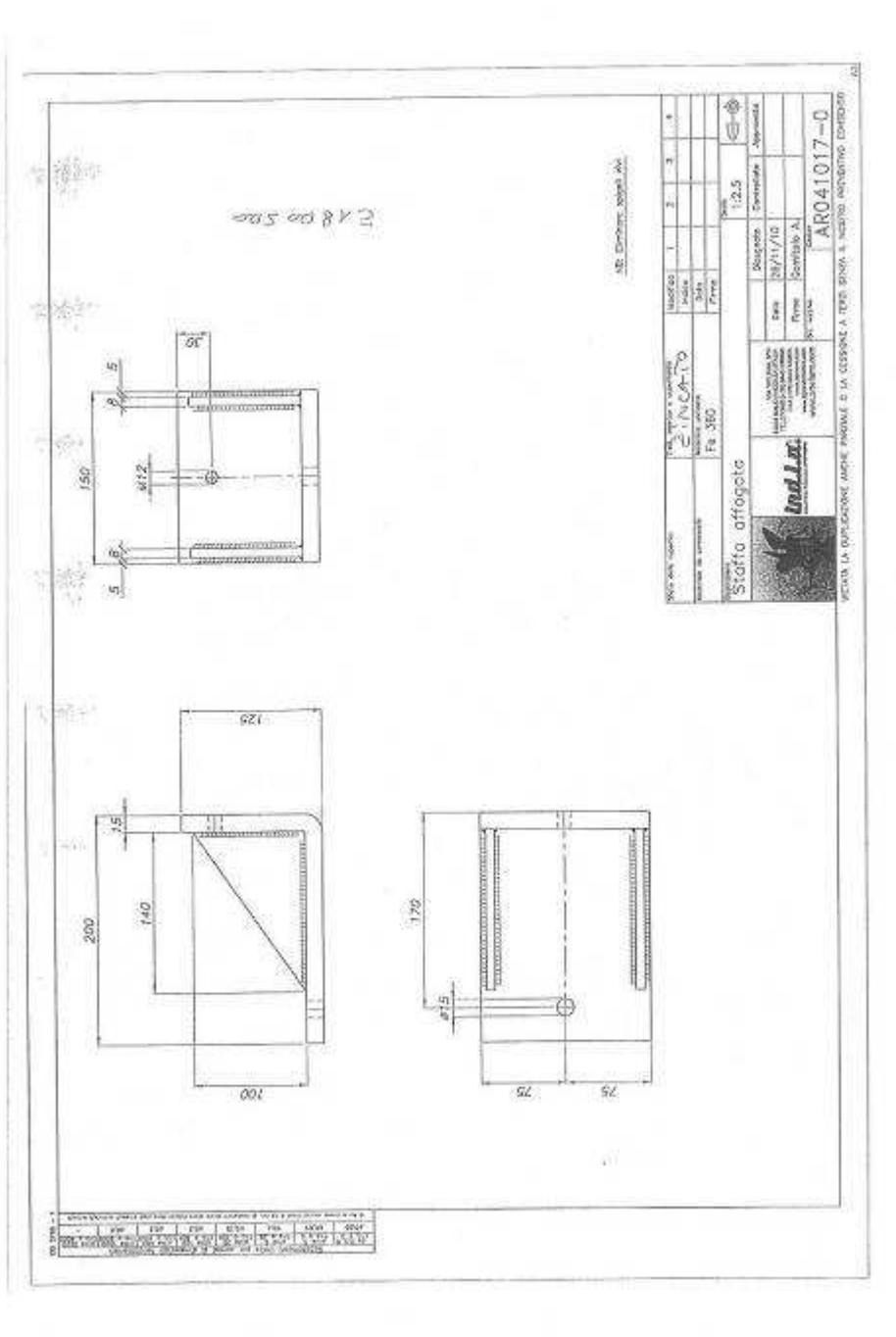
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Code E1800500 Staffa affogata

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
Revision: 02
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Project manager:
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Divisione PS-TEC

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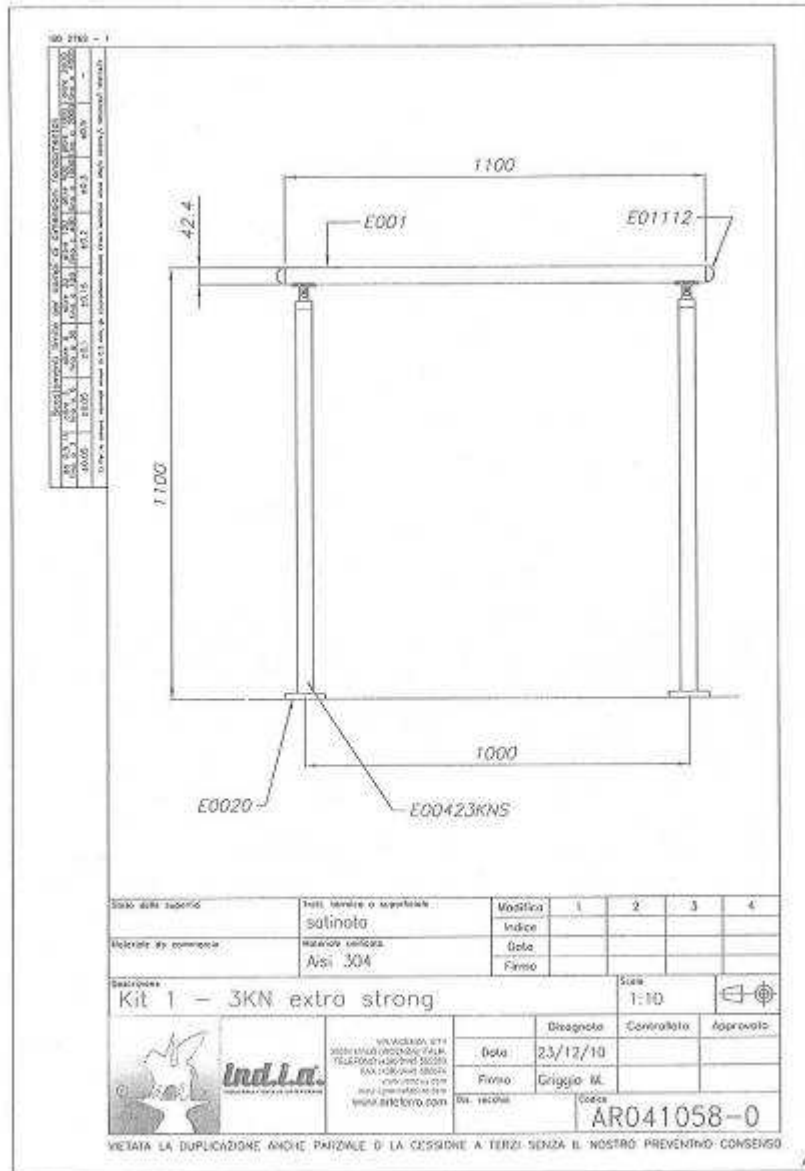


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Drawings_MONTANTI EXTRA STRONG



Code Kit 1 – 3kn extra strong

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no.: MEC 10117.00
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Project manager:
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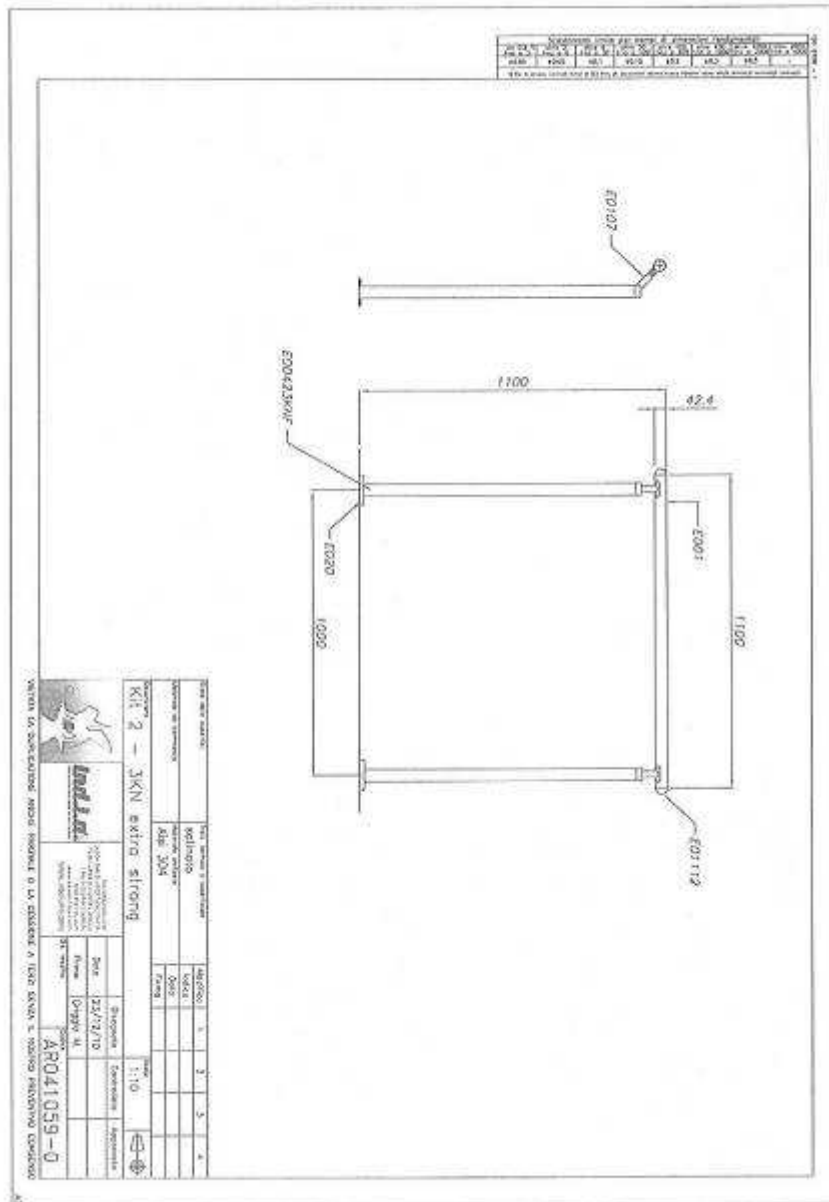
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Code Kit 2 - 3kN extra strong

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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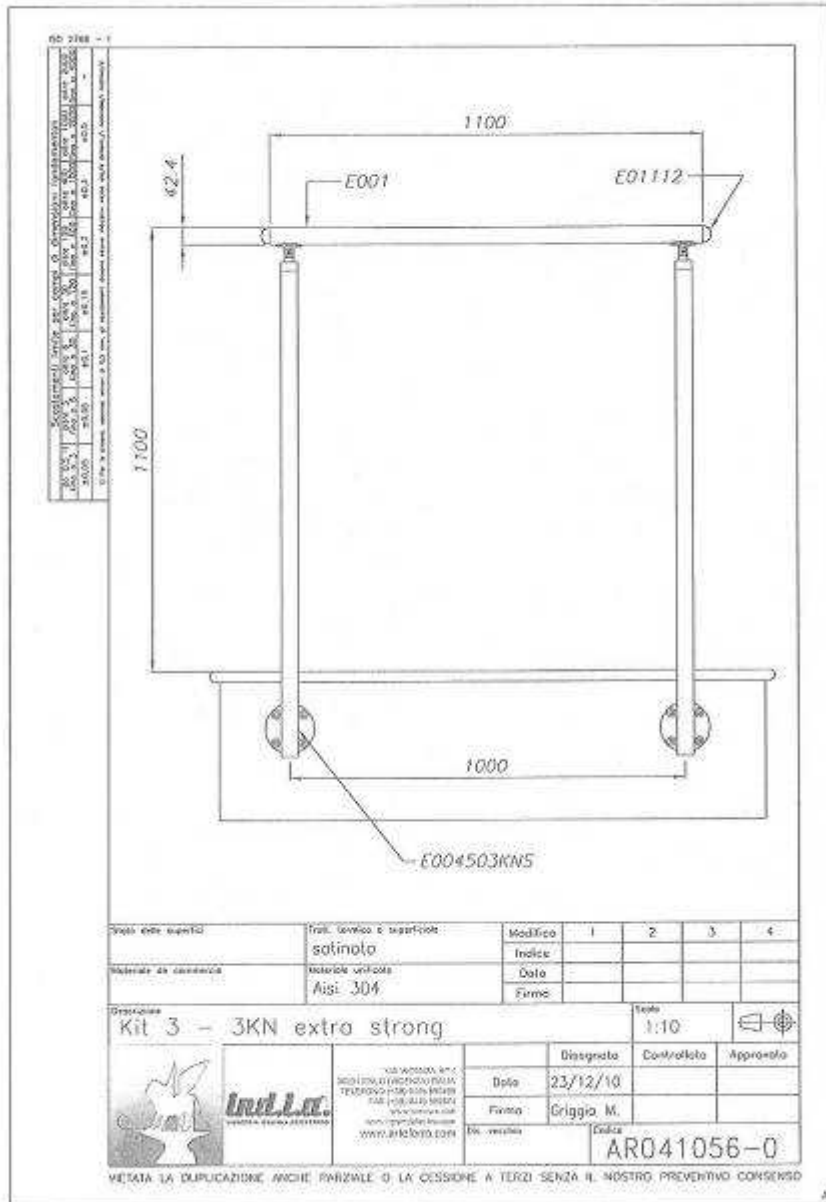
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Code Kit 3 – 3kN extra strong

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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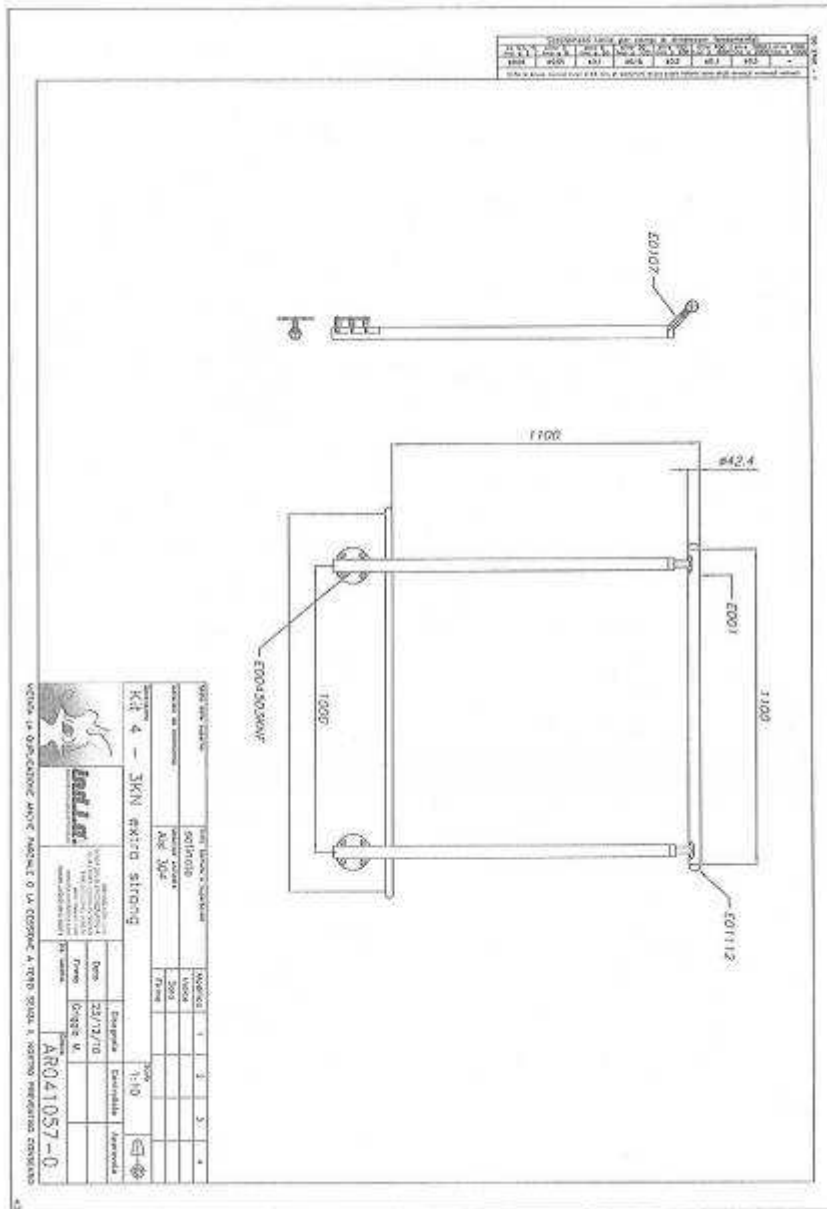
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Code Kit 4 – 3kN extra strong

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
Revision: 02
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Project manager:
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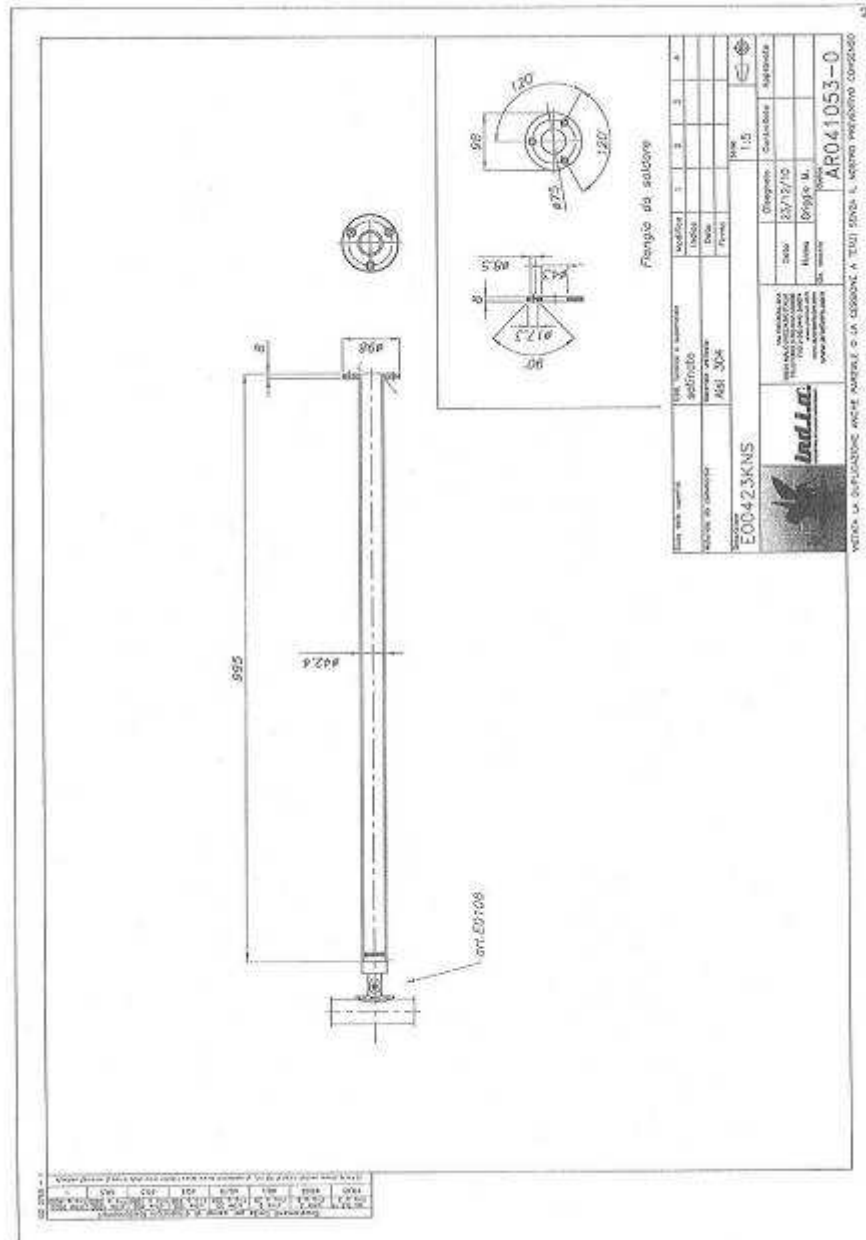
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Code E00423KNS

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
Revision: 02
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Project manager:
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Issue date: 2011-01-11

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Divisione PS-TEC

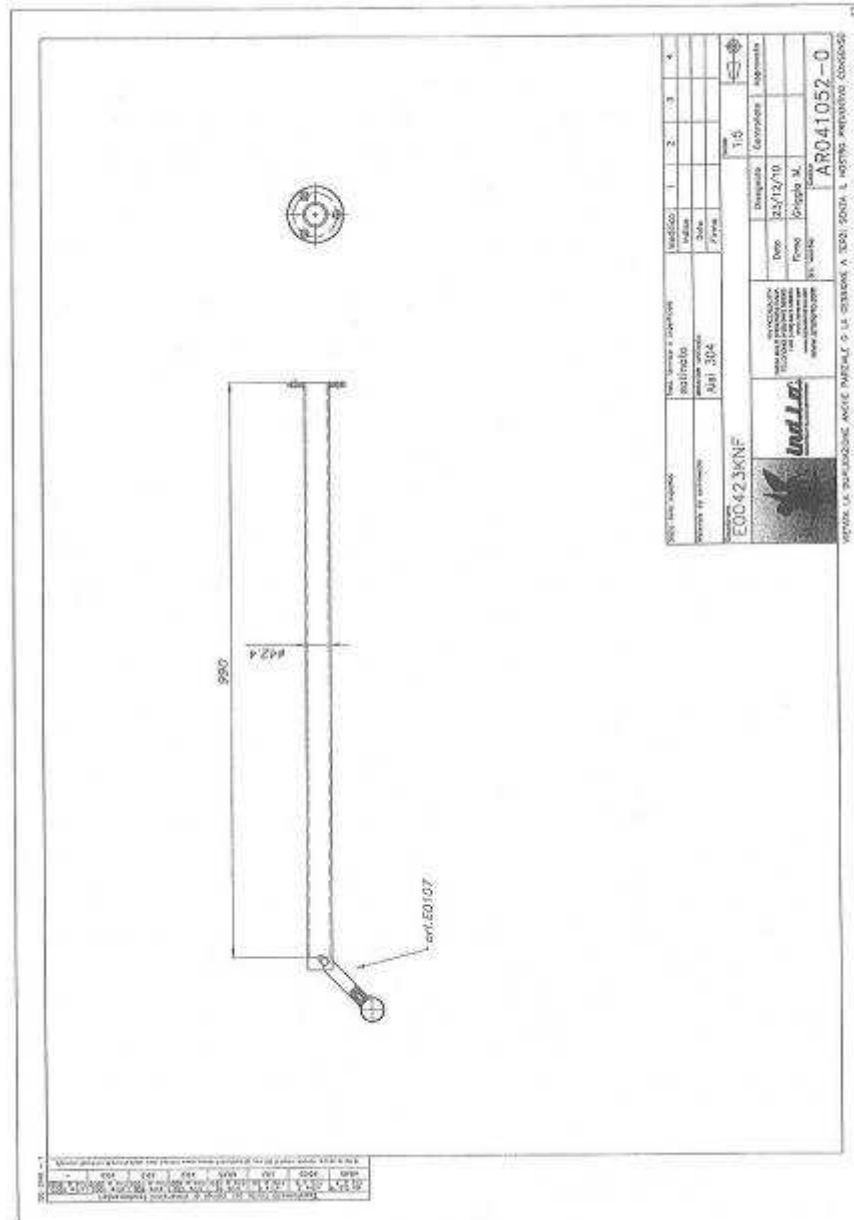
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Code E00423KNF

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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Issue date: 2011-01-11

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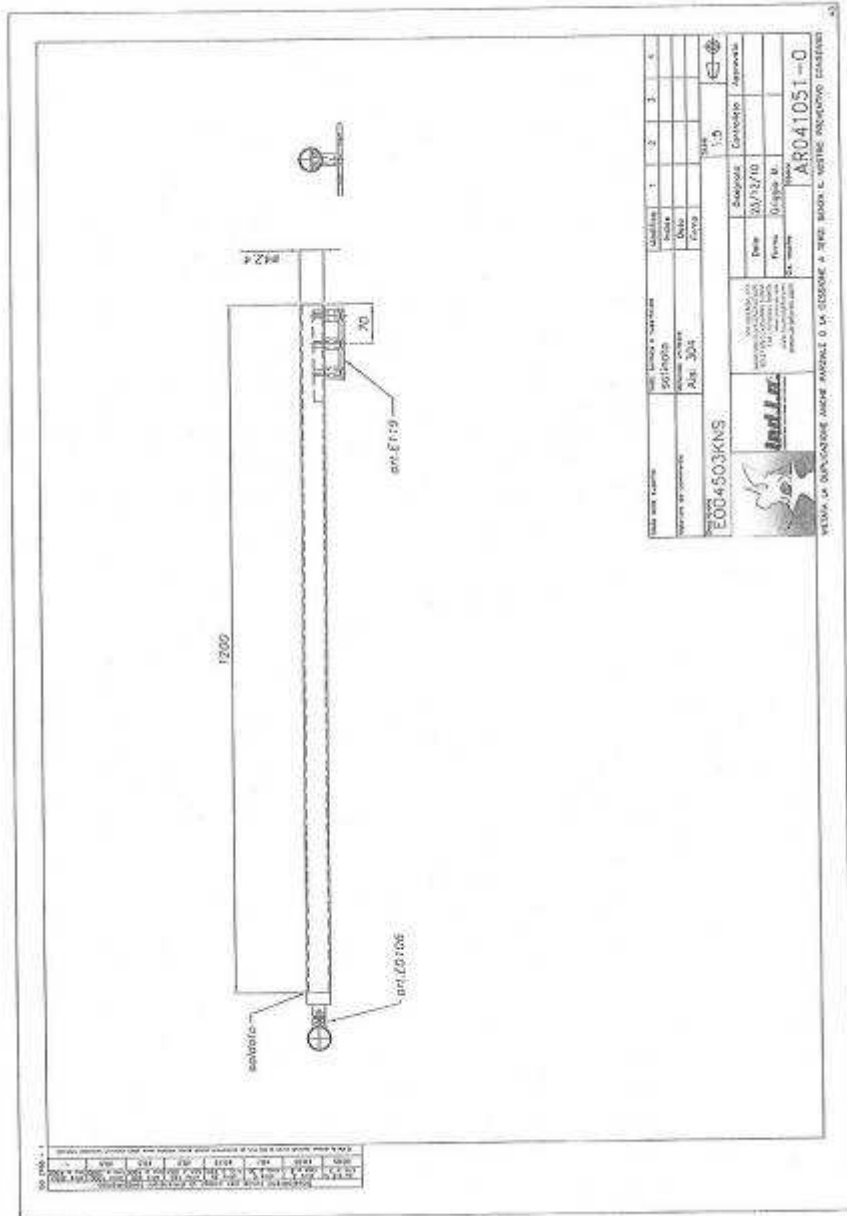
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Code E004503KNS

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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Issue date: 2011-01-11

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Divisione PS-TEC

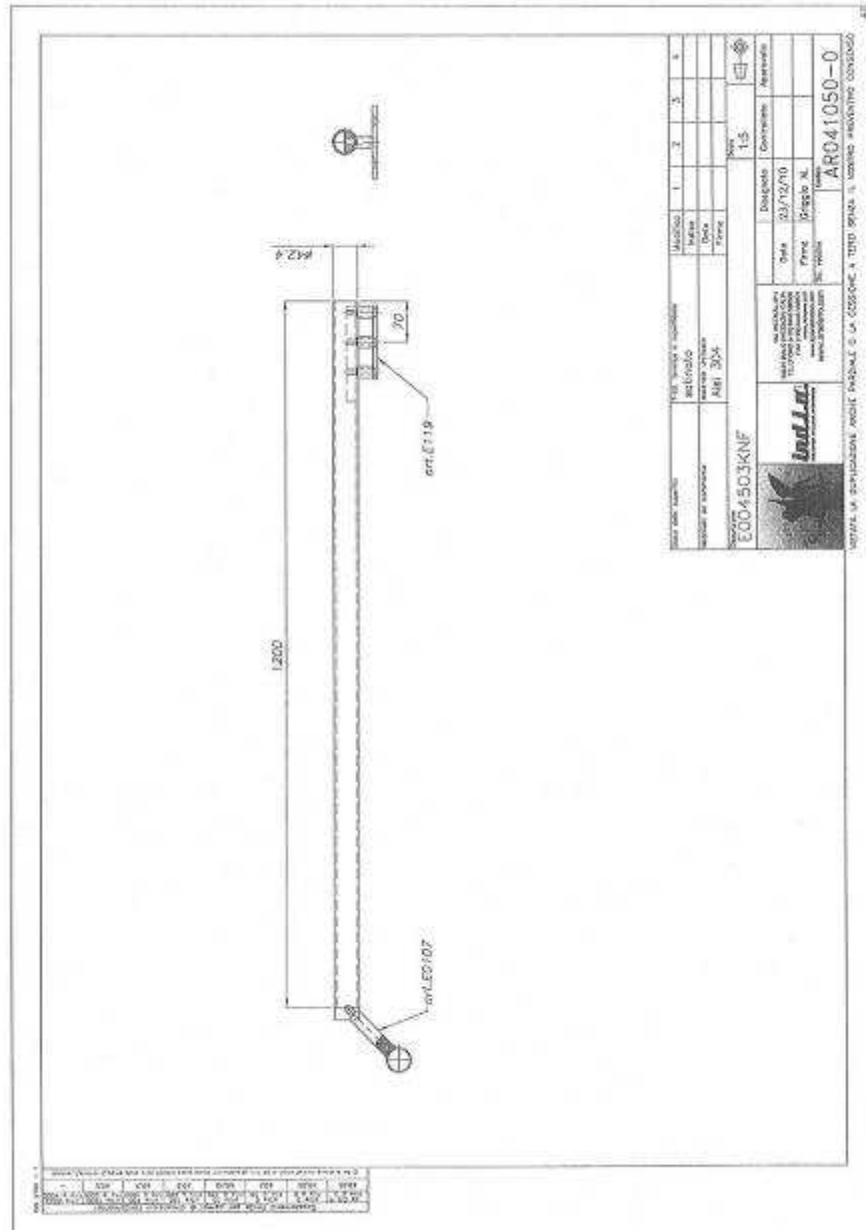
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Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no. : MEC 10117.00
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Project manager:
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Issue date: 2011-01-11

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Divisione PS-TEC

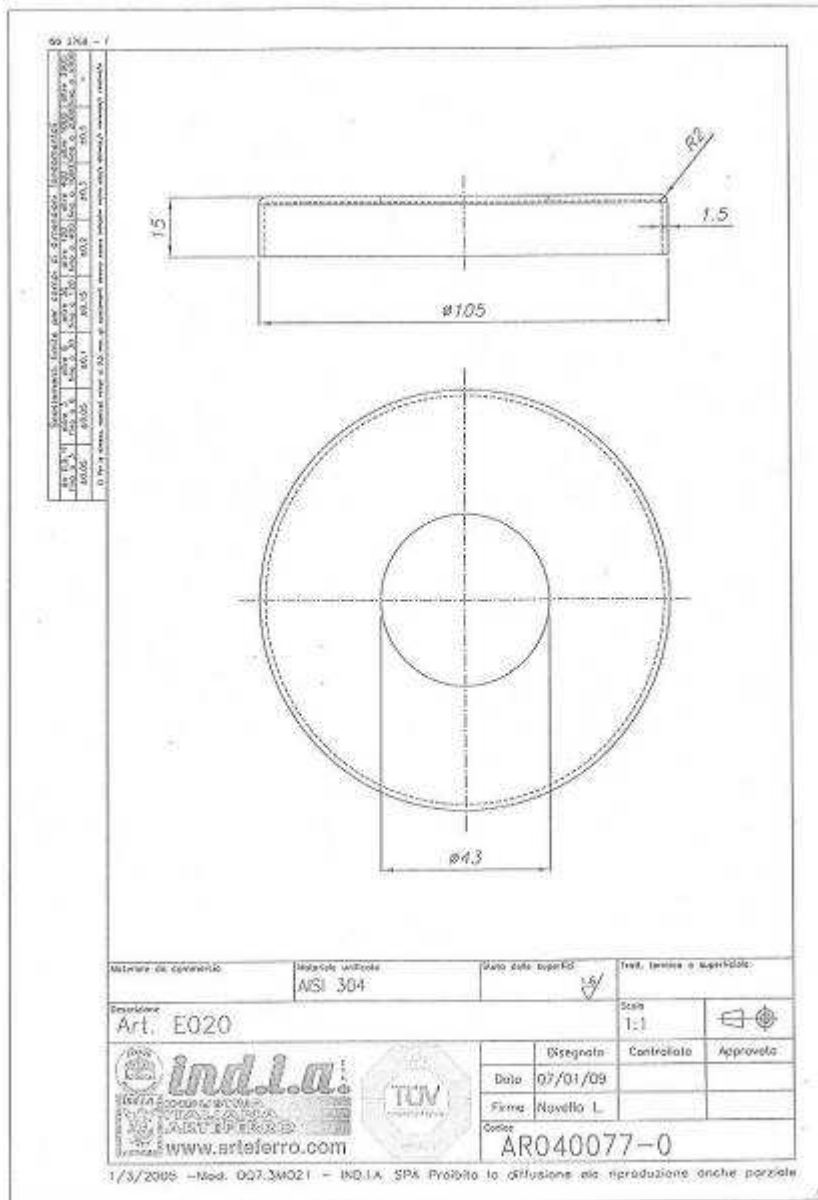
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Code E020

Code 11/00

Form: ITA_F_09.02 (Rev.5 October 18, 2010)

Document name: MEC 10117.00
Technical report no.: MEC 10117.00
Revision: 02
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Project manager:
Gianpaolo MENSA
Issue date: 2011-01-11

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Divisione PS-TEC

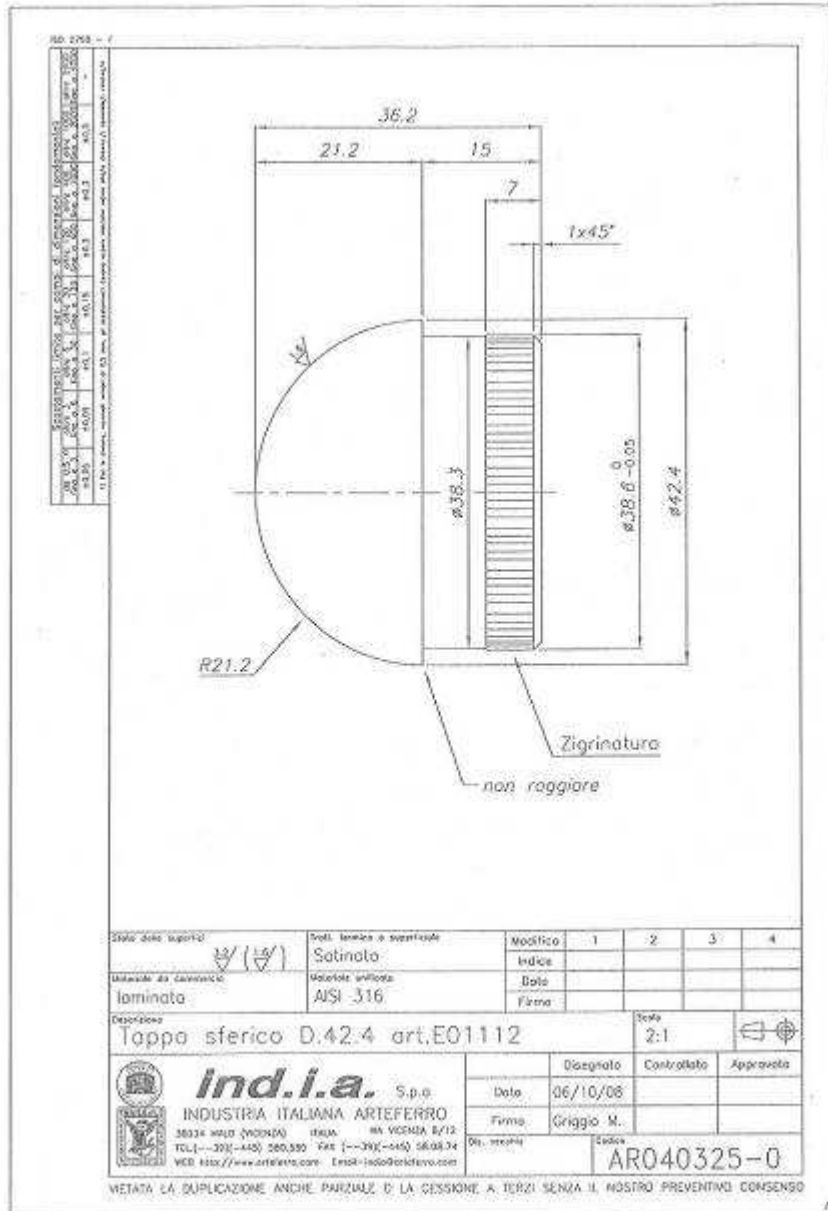
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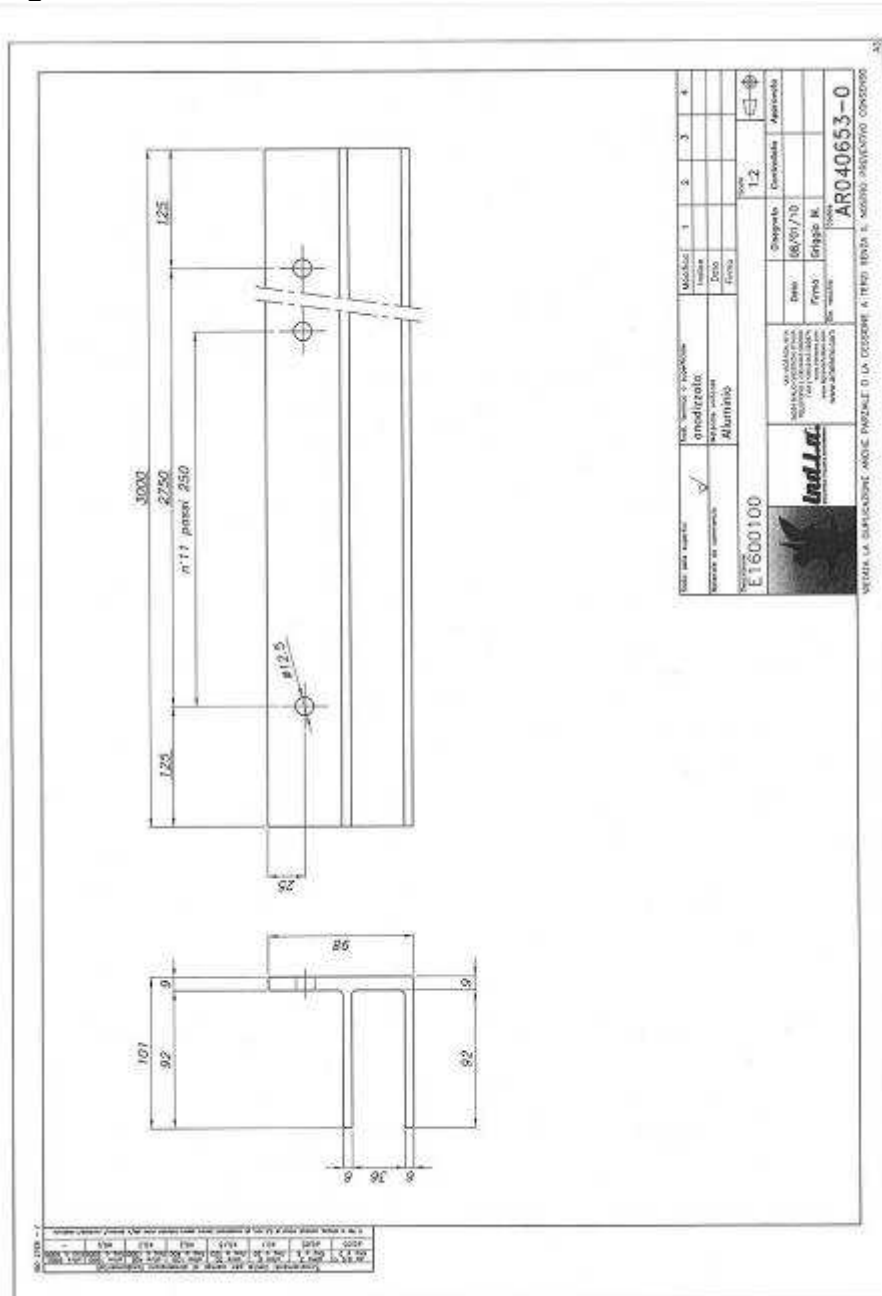


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Drawings_GLASS U



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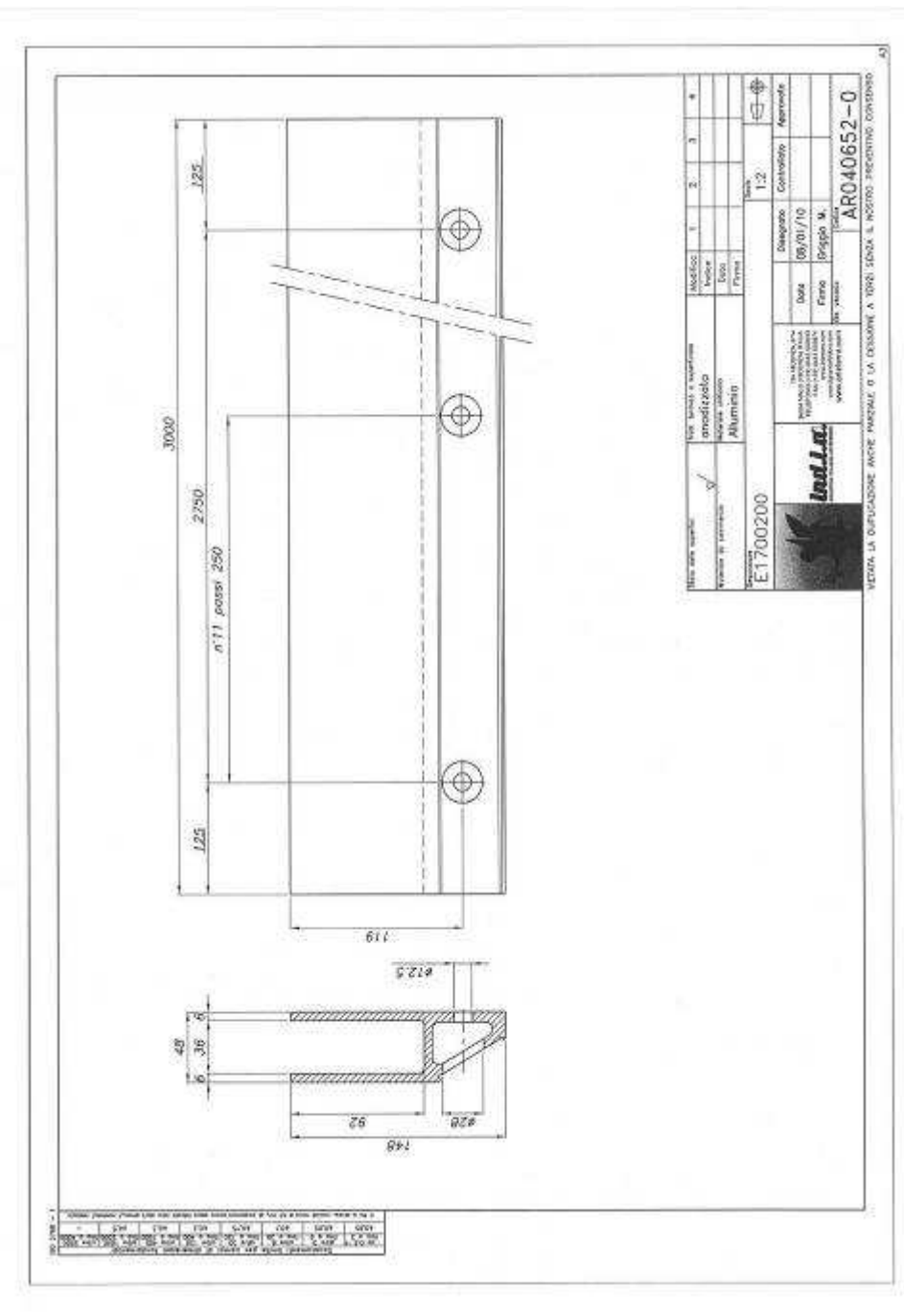
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Choose certainty.
Add value.

1.4 Appliance identification code

Codice di identificazione prodotto

Test carried out from Client in Mechanical Safety Lab., in Scarmagno TO.
only documentation check.

2. Order

Ordine

209332

2.1 Date of Purchase Order, Customer's Reference

Data dell'ordine, riferimenti del cliente

2010/Dic
Customer code: 73445

2.2 Receipt of Test Sample, Location

Data ricevimento dei campioni, luogo di ricevimento

Location: TÜV Italia srl - Divisione PS-TEC, Via Montalenghe, 12, Mechanical Safety Lab., Scarmagno TO.

2.3 Date of Testing

Data delle prove

From 2010/12/16 to 2010/12/24

2.4 Location of Testing

Luogo di prova

Location: IND.I.A S.p.A Via Vicenza 6/14 36034 Malo (VI) and TÜV Italia srl
Divisione PS-TEC, Via Montalenghe, 12, Mechanical Safety Lab , Scarmagno
(TO)

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Add value.

2.5 Points of Non-compliance or Exceptions of the Test Procedure

Punti di non conformità o eccezioni alle specifiche di prova

None

3. Test Results

Risultati della prova

Positive

3.1 Positive Test Results

Risultati di prova positivi

The test specifications are met

a. Technical Documentation

In order to consider the following documentation must be submitted to:

- Pictures / Brochures
- Dimensioned engineering drawings
- Pack list
- Material evidence
- Installation instructions / care instructions
- Risk analysis by the manufacturer
- Labeling

Positive Result: The Client had provided these information.

b. Installation instructions

The product be accompanied by a drafted in the German language installation instructions.

This manual assembly of the railing must contain at least the following information and meet the EN 62079:

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Add value.

- *Balustrades must be firmly attached (eg by screws or pins with the railings), the screws should be tightened with a tightening torque indicating the manufacturer.*
- *The installation of the railing or - systems should only by a professionally trained person will be mounted.*
- *Bulk of rails are laid down in DIN 18065 and must be used.*
- *You must include maintenance and care recommendations*

Positive Result: User manual in according to the specification.

c.Material Properties

The detection of materials is demonstrated by inspection certificates "3.1" according to DIN EN 10204 of the manufacturer.

Positive Result: Railing items off in stainless steel with certificate.

d.Determination Static agents

The railings should be such accomodate a set up for applied an horizontal force of at least 1500 N / m for a period of 5 min.

Setup test

The test load is horizontally, gradually and smoothly applied (between the center lines of two consecutive top edge of the handrail posts).

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Fig #1_Set up test on GLASS U.

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Fig #2_Montante extra strong Kit 2 – 3kN

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Fig#3_ Check time of test



Fig#4 Dynamometr for load check

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Fig#5_Kit 3- 3 kN extra strong during test.

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Fig#6_Kit 2 – 3 kN extra strong during test.

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Fig#7_Kit 1 – 1.5 kN during test.

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e.Dynamic load

The railing is exposed to a blow with a 50-kg sandbag. The bag is a 1.5 m long pendulum. It is deflected 30 °and meets with its emphasis on the supposed weakest link.

The railing shall not dissolve or break.

Positive Result: No recorded any problem after the impact.



Fig#8_Set up test

f.Wall mount

An assembly instruction and possibly a template for items that are attached to the wall or floor.

*Indication of the strength of the different substrates.
For mounting on porous concrete, the expert must be asked about.*

Positive Result: Provided from Client a users manual.

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g. Corrosion resistance

The corrosion resistance of bearing elements must be proved. For example, galvanic surface of a salt spray test according to DIN EN ISO conducted 9227th The test duration is 120 hours

After the spray trial may be present, is affected by the strength and function of the load-bearing components to the components to avoid corrosion.

On components with paints and similar coatings is carried out a cross-cut test according to DIN EN ISO 2409.

The flaked surface must not exceed this 15% (corresponds to the characteristic crosshatch GT-2).

Positive Result: After the test the products don't show any corrosion.



Fig#9_Material before test.

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Fig#10_Material after test.

4. Remark *Commenti*

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

Le istruzioni per l'uso sono state esaminate in accordo ai requisiti minimi descritti negli standard di prodotto. Il costruttore è responsabile dell'accuratezza di ulteriori informazioni riportate.

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Remarks to Factory

Note per le visite ispettive

The assembly of the product has to comply with the documentation.
Before the implementation of safety relevant modifications to the product into
the ongoing production the product must be assessed for acceptance.
The results must be implemented to the documentation and if necessary the
certificate must be updated.

L'assemblaggio del prodotto deve essere conforme alla documentazione.

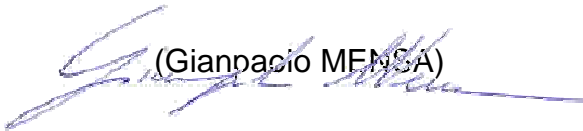
*Prima di implementare in produzione modifiche rilevanti per la sicurezza, il
prodotto deve essere verificato, ai fini dell'accettazione di tali modifiche.*

*I risultati devono essere documentati e, se necessario, il certificato deve essere
riemesso.*

TÜV Italia srl

Divisione PS-TEC
Mechanical Safety Dept.

Engineer:


(Gianpaolo MENSA)

Technical Report checked:


(Daniele MAZZEI)

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