



# TEST REPORT RAPPORTO DI PROVA

## Frontal impact on model TI-VAN Prova di urto frontale su allestimento TI-VAN

### Customer (Richiedente):

- Dept./Firm (~~Ente~~/Società): TecnoIam S.r.l.
- Mr./Mrs (Sig./Sig.ra.): Luca Seccacini
- Address (Indirizzo): Via Flaminia 2/b, I- 61030 Calcinelli di Saltara (PU)

Test Request Form no.:  
Modulo Richiesta Prova n.:

MEC15070.00

Test Report sent to:  
Rapporto inviato a:

Mr. Luca Seccacini

Name and Signature of the test engineer:  
Nome e Firma esecutore prova:

Pietro Vergani

Name and Signature of the Technical reviewer:  
Nome e Firma del Revisore tecnico:

Maurizio Leone

Date of test samples receipt:  
Data ricevimento campioni:

2015-02-10

Date of test execution:  
Data esecuzione prove:

2015-04-10

Site of test execution (if different from the address in the footer):  
Località esecuzione prove (se diversa dal piè pagina):

CSI S.p.A. V.le Lombardia, 20  
I-20021 Bollate (MI)

Witness to the test:  
Presenti alle prove:

Mr. Briscolini Renato

The test results contained in this Test report relate to the tested samples only.

*I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova.*

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*E' ammessa la riproduzione integrale del presente Rapporto di prova da parte del Richiedente; la riproduzione parziale dev'essere autorizzata per iscritto dal Laboratorio.*

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<b>1</b>	<b>TEST SETUP</b> <i>SETUP DI PROVA</i>	
<b>1.1</b>	<b>SAMPLE IDENTIFICATION</b> <i>IDENTIFICAZIONE CAMPIONE</i>	
<b>1.1.1</b>	<b>Product/material subjected to test:</b> <i>Prodotto/materiale sottoposto a prova:</i>	TI-VAN
<b>1.1.2</b>	<b>Description:</b> <i>Descrizione:</i>	Components installed in Vehicles
<b>1.1.3</b>	<b>Level (Series product, prototype, etc.):</b> <i>Livello (Prodotto di serie, prototipo, ecc.):</i>	Series
<b>1.1.4</b>	<b>Part number:</b> <i>Codice prodotto:</i>	not available
<b>1.1.5</b>	<b>Serial number:</b> <i>N° Matricola:</i>	not available
<b>1.1.6</b>	<b>Sample identification code:</b> <i>Codice identificativo del campione:</i>	not available
<b>1.2</b>	<b>AUXILIARY DEVICES</b> <i>DISPOSITIVI AUSILIARI</i>	/
<b>1.3</b>	<b>TEST CONFIGURATION</b> <i>CONFIGURAZIONE DI PROVA</i>	According to regulation ECE R17 Annex 9
<b>1.4</b>	<b>DIAGNOSTIC SYSTEM</b> <i>SISTEMA DIAGNOSTICO</i>	According to regulation ECE R17

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## 2 TEST LIST

ELENCO DELLE PROVE

Test Description	Reference document	Standardized	Differences
<b>2.1 Frontal impact</b> <i>Impatto frontale</i>	ECE R17 Annex 9 - frontal impact	No	Impact speed = 31,5 km/h

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**3 TEST EQUIPMENT USED****APPARECCHIATURE UTILIZZATE**

Test equipment of CSI laboratory

Test report no.0089\ME\CRH\15

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**4 ENVIRONMENTAL CONDITIONS****CONDIZIONI AMBIENTALI****4.1 ROOM TEMPERATURE**  
**TEMPERATURA AMBIENTE**

20,9 °C

**4.2 RELATIVE HUMIDITY**  
**UMIDITA' RELATIVA**

Not detected

**4.3 PRESSURE**  
**PRESSIONE**

Not detected

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**5 MEASUREMENT UNCERTAINTY****INCERTEZZA DI MISURA**

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**6 SAMPLING PLAN****PIANO DI CAMPIONAMENTO**

Sample selected by the customer.

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## 7 TEST AND/OR MEASUREMENT RESULTS

*RISULTATI DELLE PROVE E/O MISURE*

### 7.1 TEST N.1

*PROVA N.1*

Components series TI-VAN installed in FIAT SCUDO vehicle body

#### 7.1.1 TEST OBJECTIVE

*SCOPO DELLA PROVA*

The FIAT SCUDO vehicle body, equipped with components for commercial vehicles TI-VAN, has been subjected to the same deceleration prescribed by regulation ECE R17 and directive 74/408/CE for the frontal impact

Impact speed = 31,5 km/h

Bags filled with sand ballast

Total load = 170 kg (supplied by the manufacturer)

#### 7.1.2 TEST RESULTS

*RISULTATI DI PROVA*

The requirement 20 g / 30 ms is met

After the test, following was noted:

- no recognizable fractures of any of the safety relevant components
- no losing of attachment parts

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## 8 REMARKS

### NOTE

Test performed by CSI Laboratory under supervision of TÜV SÜD Italia

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## 9 APPENDIX APPENDICE

### 9.1 PHOTO DOCUMENTATION DOCUMENTAZIONE FOTOGRAFICA



FIAT SCUDO vehicle body



TI-VAN before the test

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TI-VAN before the test



TI-VAN before the test

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TI-VAN before the test



TI-VAN before the test

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TI-VAN after the test



TI-VAN after the test

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TI-VAN after the test



TI-VAN after the test

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TI-VAN after the test



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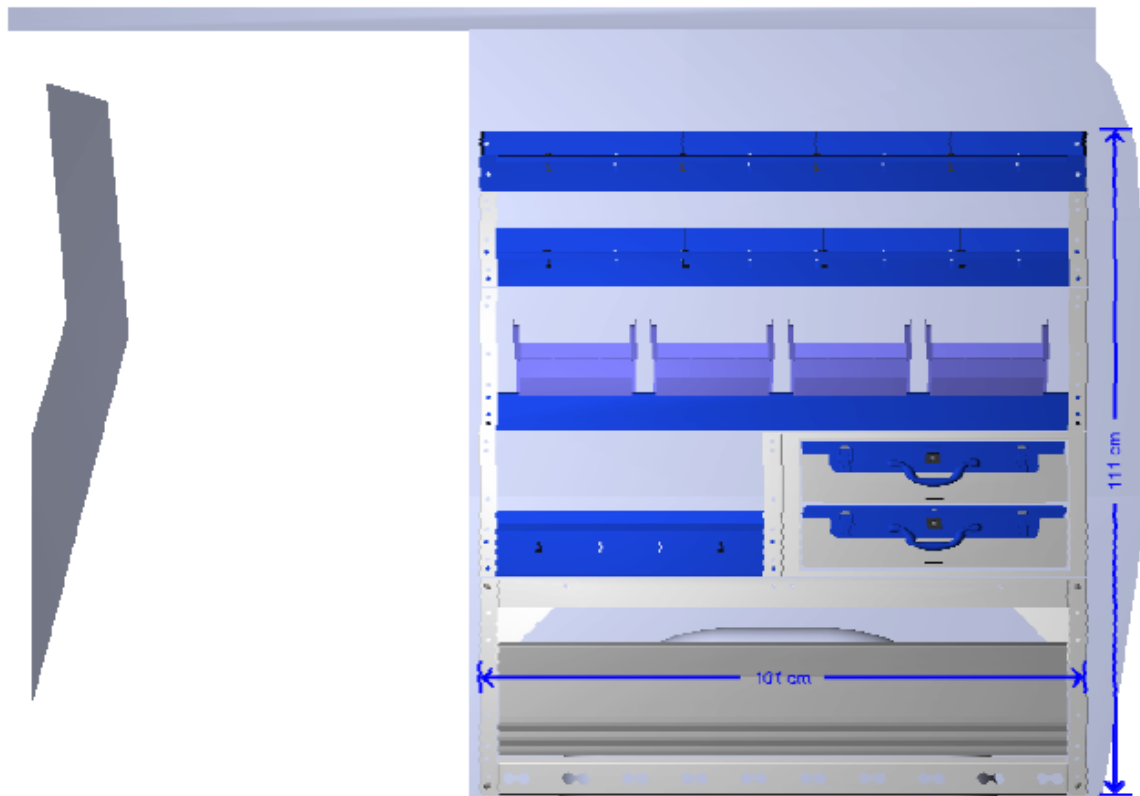
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## 9.2 ATTACHMENTS ALLEGATI

### *Vista Lato Passeggero*



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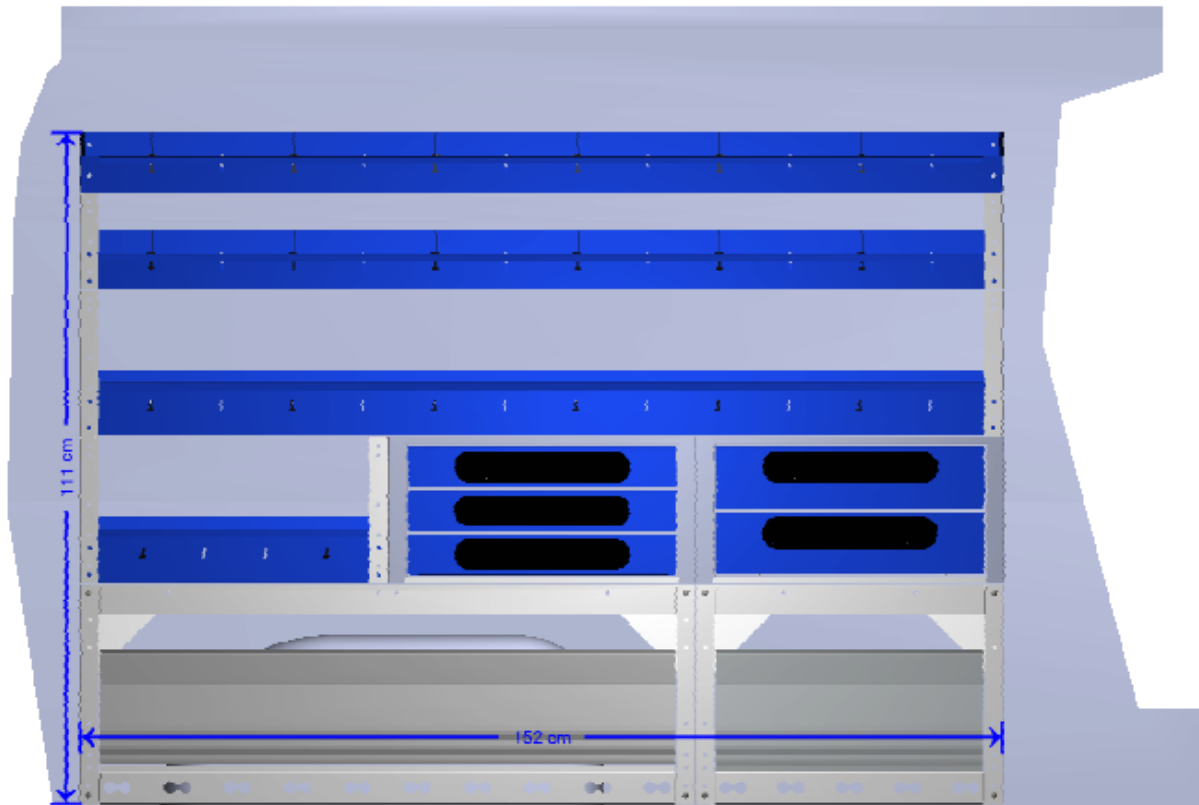
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### Vista Lato Guida



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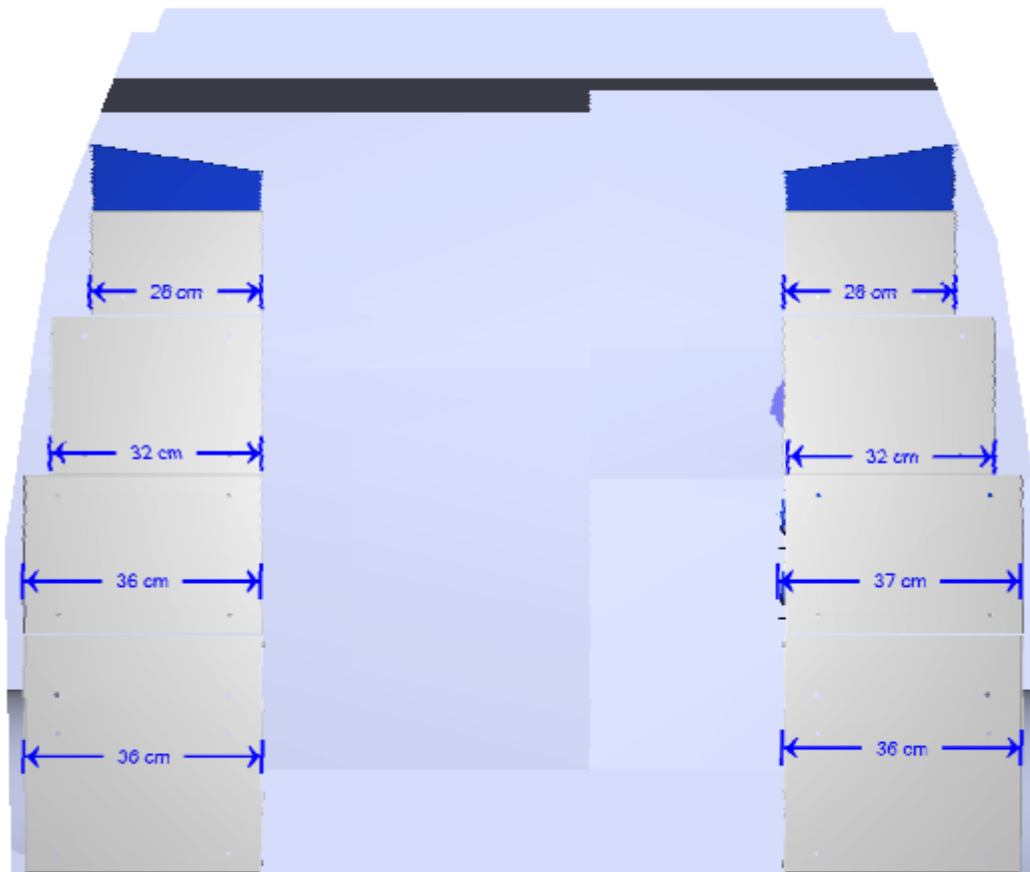
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### Vista Lato Posteriore



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