

# Harness Structural test Report

Inspection certificate number: **PH\_207.2017**
**Manufacturer data:**

Manufacturer name: **Supair Sàrl**  
 Representative: **Laurent Chiabaut**  
 Street: **34, rue Adrastée**  
 Post code place: **74650 Chavanod**  
 Country: **France**

**Sample data:**

Name: **Strike A5**  
 Type: **ABS**  
 Size: **M**  
 Serial number: **2166-0413-MM-EI**  
 Impact pad type: <sup>(1)</sup> **Foam**  
 Clip-in weight [kg]: **100**

Date of test: **13.04.2016**
**Atmosphere AGL:**

|        |             |
|--------|-------------|
| [C°]   | <b>21.7</b> |
| RH [%] | <b>40</b>   |
| [hPa]  | <b>1010</b> |

**Summary of Structural test**

| Test id | - EN 1651 | Setup                          | Req. Load [g] | Req. Load [N] | Min. duration [s] | Result   |
|---------|-----------|--------------------------------|---------------|---------------|-------------------|----------|
| R0      | ✓ 5.3.2.1 | Default flying position        | 6             | 6000          | 10                | POSITIVE |
| R2      | ✓ 5.3.2.2 | Default flying position        | 15            | 15000         | 5                 | POSITIVE |
| R4      | ✓ 5.3.2.7 | Flying position before landing | 15            | 15000         | 5                 | POSITIVE |
| R6      | ✓ 5.3.2.4 | Rescue attachments             | 15            | 15000         | 5                 | POSITIVE |
| R8      | ✓ 5.3.2.3 | Asymmetric, one riser          | 6             | 6000          | 10                | POSITIVE |
| R9      | 5.3.2.5   | Towing                         | 5             | 5000          | 10                | n/a      |
| R10     | ✓ 5.3.2.6 | Asymmetric, negative           | 4.5           | 4500          | 10                | POSITIVE |

**Rescue deployment test**

| Test id | - NfL II 91/09 | Setup                   | Min load [N] | Max. load [N] | Measured [N] | Result   |
|---------|----------------|-------------------------|--------------|---------------|--------------|----------|
| RRDT    | ✓ 6.1.5        | Default flying position | 20           | 70            | <b>33.80</b> | POSITIVE |

**Rescue Deployment Handle strength test**

| Test id | - EN 12491 | Setup                    | Req. Load [N] | Min. duration [s] | Breaking strength [N] | Result   |
|---------|------------|--------------------------|---------------|-------------------|-----------------------|----------|
| RRST    | ✓ 5.3.2    | Two end points of handle | 700           | 10                | <b>1142.10</b>        | POSITIVE |

| Manufacture | Instrument         | Type no      | S/N      | Validity Calibration |
|-------------|--------------------|--------------|----------|----------------------|
| HBM         | Load Sensor GE01   | 1-S9M/50KN-1 | 31314643 | 14.10.2019           |
| Burster     | Sensor Burster     | 8431-10000   | 1185483  | 01.06.2020           |
| JDC elec    | Geos n°11 Skywatch | Geos n°11    | 22       | 08.05.2019           |

The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

<sup>(1)</sup> If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20

Calculated value in tests reports include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

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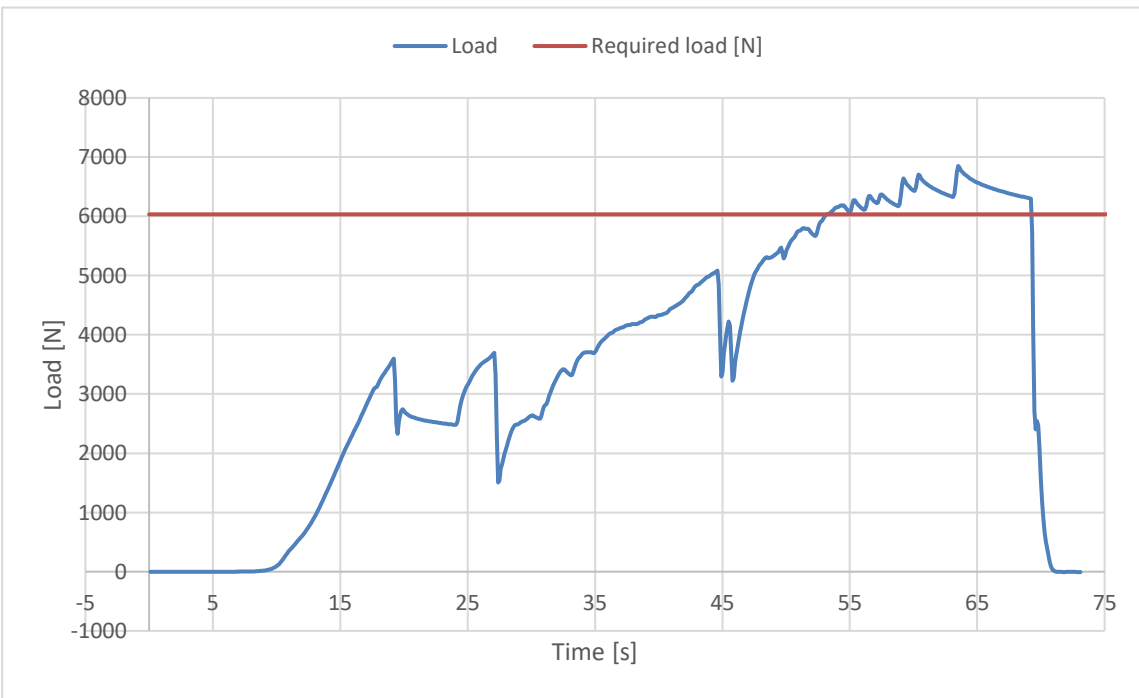
Inspection certificate number: **PH\_207.2017**

model: **Strike A5 M**

**Harness Structural test**

**Test ID R0**

|                                 |   |
|---------------------------------|---|
| Standard                        | <b>EN 1651:1999</b>                     |
| Reference in standard           | <b>5.3.2.1</b>                          |
| Test setup                      | <b>Default flying position</b>          |
| Attachment points               | <b>Both main riser attachment (3,4)</b> |
| Anchor points                   | <b>Dummy (B1, B2)</b>                   |
| Required load [g]               | <b>6</b>                                |
| Required load [N]               | <b>6000</b>                             |
| Minimum test duration [s]       | <b>10</b>                               |
| <b>Result</b>                   |   |
| Test duration [s]               | <b>16.1</b>                             |
| Any signs of structural failure | <b>No</b>                               |
| Test results                    | <b>POSITIVE</b>                         |



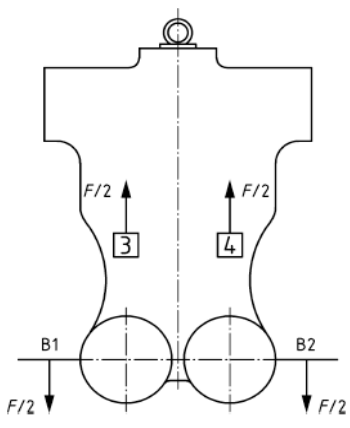
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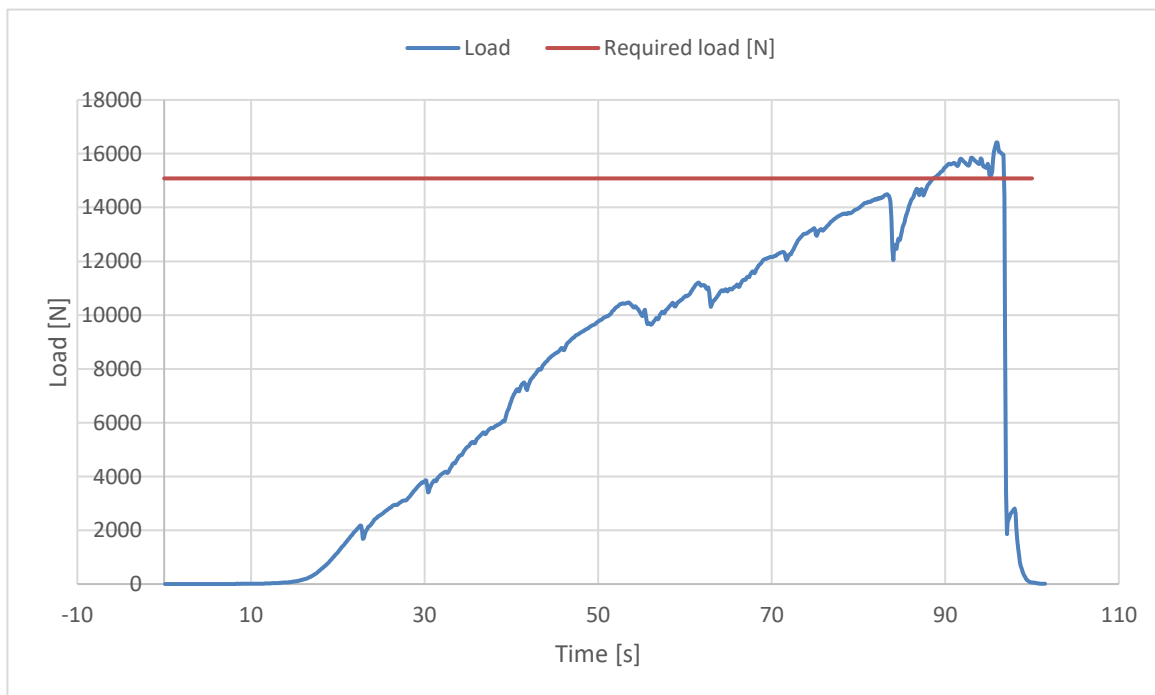
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model: **Strike A5 M**

**Harness Structural test**

**Test ID R2**

|                                 |   |  |
|---------------------------------|---|--|
| Standard                        | <b>EN 1651:1999</b>                     |  |
| Reference in standard           | <b>5.3.2.2</b>                          |  |
| Test setup                      | <b>Default flying position</b>          |  |
| Attachment points               | <b>Both main riser attachment (3,4)</b> |  |
| Anchor points                   | <b>Dummy (B1, B2)</b>                   |  |
| Required load [g]               | <b>15</b>                               |  |
| Required load [N]               | <b>15000</b>                            |  |
| Minimum test duration [s]       | <b>5</b>                                |  |
| <b>Result</b>                   |   |  |
| Test duration [s]               | <b>8.1</b>                              |  |
| Any signs of structural failure | <b>No</b>                               |  |
| Test results                    | <b>POSITIVE</b>                         |  |



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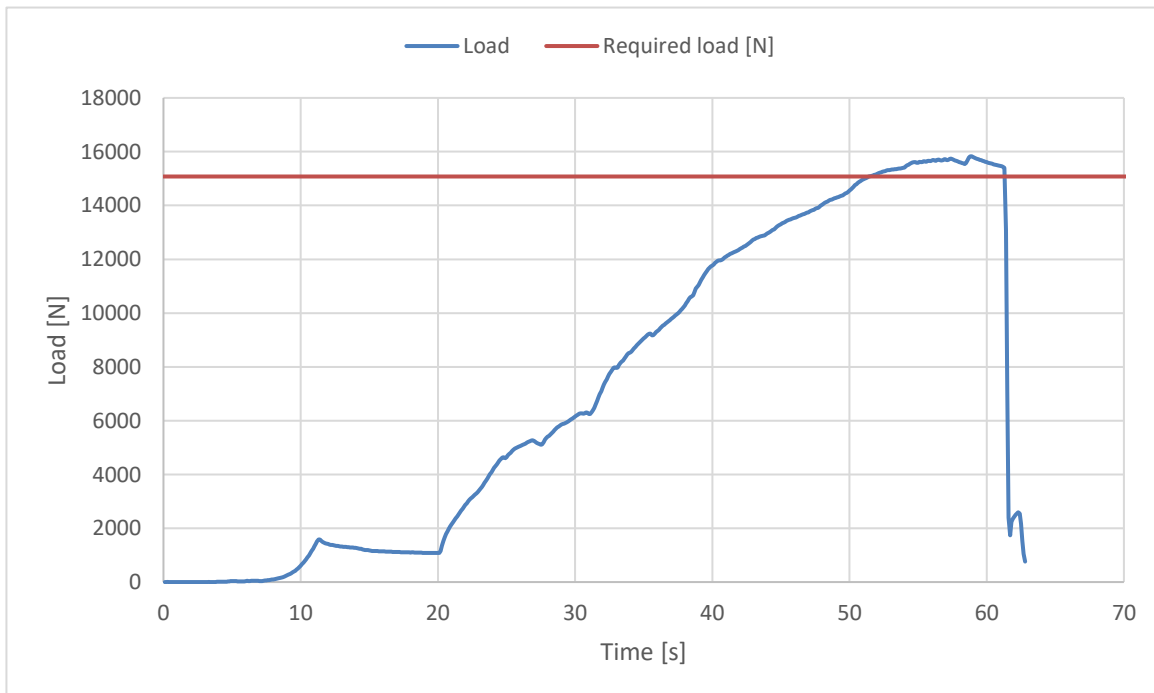
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model: **Strike A5 M**

**Harness Structural test**

**Test ID R4**

|                                 |   |
|---------------------------------|---|
| Standard                        | <b>EN 1651:1999</b>                     |
| Reference in standard           | <b>5.3.2.7</b>                          |
| Test setup                      | <b>Flying position before landing</b>   |
| Attachment points               | <b>Both main riser attachment (3,4)</b> |
| Anchor points                   | <b>Dummy (7,8)</b>                      |
| Required load [g]               | <b>15</b>                               |
| Required load [N]               | <b>15000</b>                            |
| Minimum test duration [s]       | <b>5</b>                                |
| <b>Result</b>                   |   |
| Test duration [s]               | <b>9.9</b>                              |
| Any signs of structural failure | <b>No</b>                               |
| Test results                    | <b>POSITIVE</b>                         |



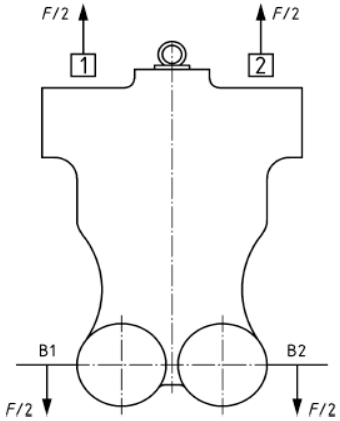
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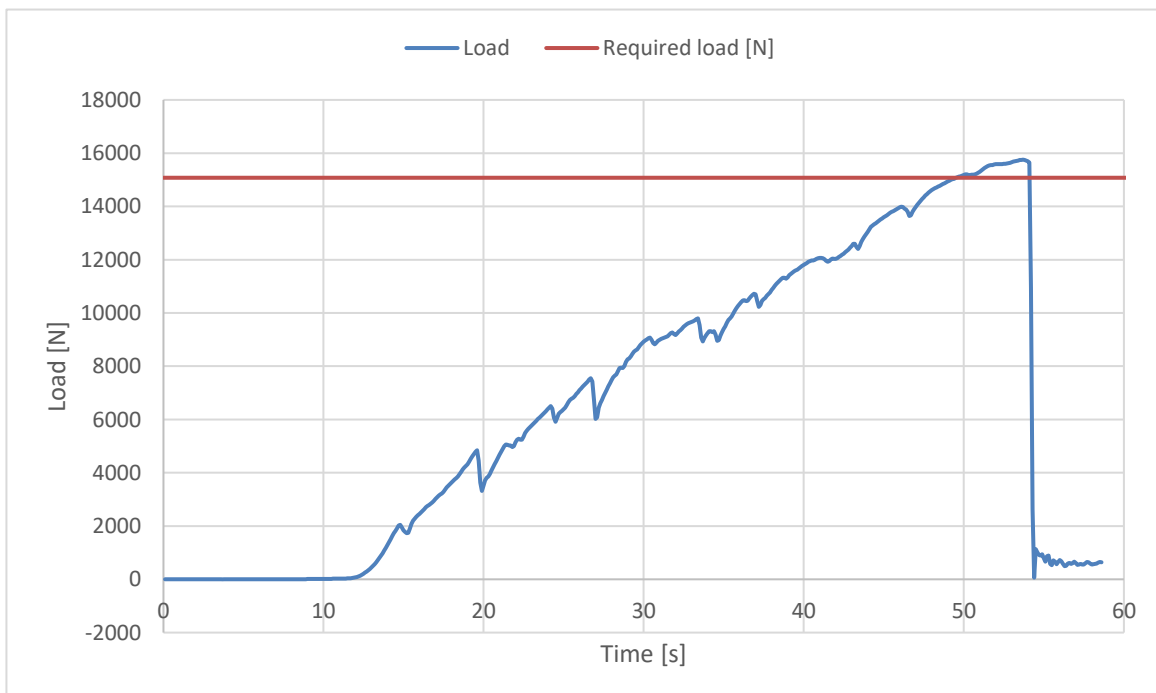
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model: **Strike A5 M**

**Harness Structural test**

**Test ID R6**

|                                 |                                      |  |
|---------------------------------|--------------------------------------|--|
| Standard                        | <b>EN 1651:1999</b>                  |  |
| Reference in standard           | <b>5.3.2.4</b>                       |  |
| Test setup                      | <b>Rescue attachments</b>            |  |
| Attachment points               | <b>Rescue riser attachment (1,2)</b> |  |
| Anchor points                   | <b>Dummy (B1,B2)</b>                 |  |
| Required load [g]               | <b>15</b>                            |  |
| Required load [N]               | <b>15000</b>                         |  |
| Minimum test duration [s]       | <b>5</b>                             |  |
| <b>Result</b>                   |                                      |  |
| Test duration [s]               | <b>4.6</b>                           |  |
| Any signs of structural failure | <b>No</b>                            |  |
| Test results                    | <b>POSITIVE</b>                      |  |



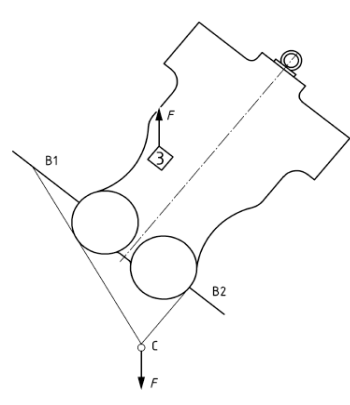
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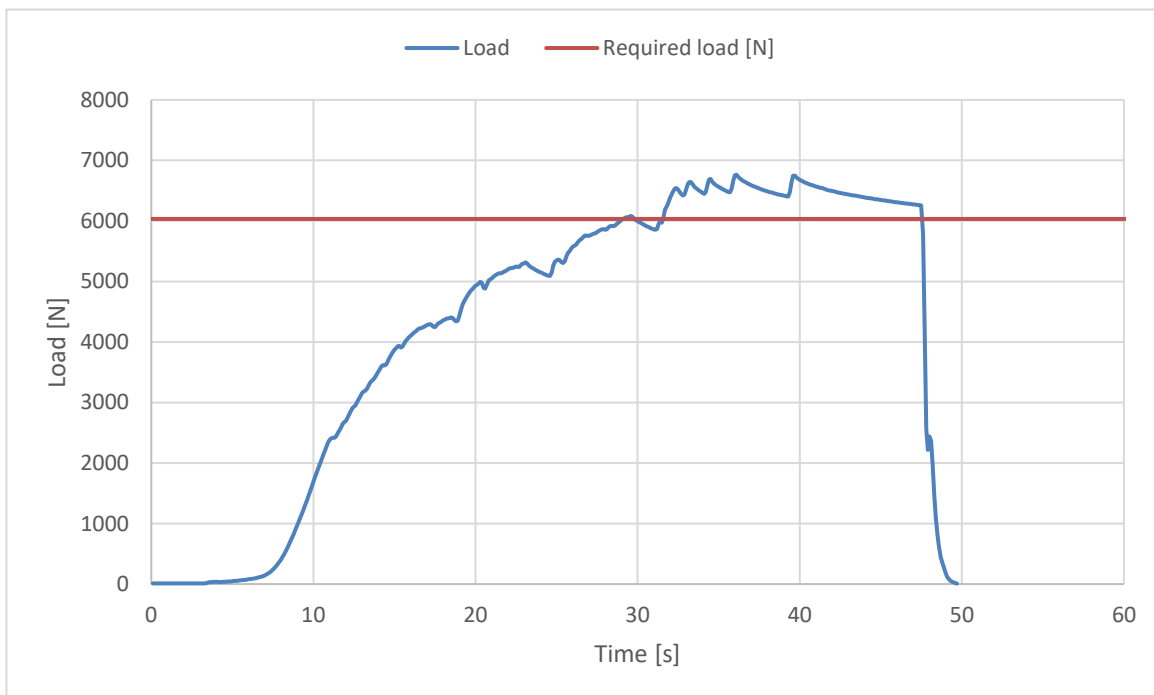
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model: **Strike A5 M**

**Harness Structural test**

**Test ID R8**

|                                 |                                      |  |
|---------------------------------|--------------------------------------|--|
| Standard                        | <b>EN 1651:1999</b>                  |  |
| Reference in standard           | <b>5.3.2.3</b>                       |  |
| Test setup                      | <b>Asymmetric, one riser</b>         |  |
| Attachment points               | <b>One main riser attachment (3)</b> |  |
| Anchor points                   | <b>Dummy (B1,B2)</b>                 |  |
| Required load [g]               | <b>6</b>                             |  |
| Required load [N]               | <b>6000</b>                          |  |
| Minimum test duration [s]       | <b>10</b>                            |  |
| <b>Result</b>                   |                                      |  |
| Test duration [s]               | <b>16</b>                            |  |
| Any signs of structural failure | <b>No</b>                            |  |
| Test results                    | <b>POSITIVE</b>                      |  |



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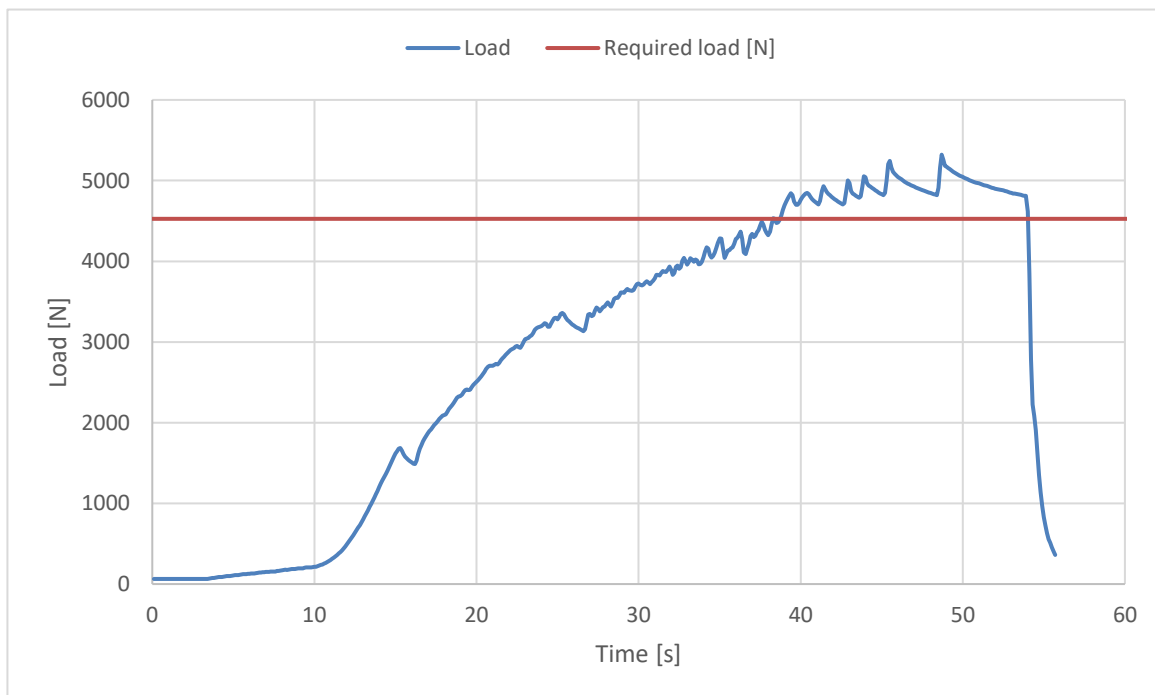
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model: **Strike A5 M**

**Harness Structural test**

**Test ID R10**

|                                 |   |  |
|---------------------------------|---|--|
| Standard                        | <b>EN 1651:1999</b>                                 |  |
| Reference in standard           | <b>5.3.2.6</b>                                      |  |
| Test setup                      | <b>Asymmetric, negative</b>                         |  |
| Attachment points               | <b>One main riser attachment (3 or 4) downwards</b> |  |
| Anchor points                   | <b>Dummy (9)</b>                                    |  |
| Required load [g]               | <b>4.5</b>  |  |
| Required load [N]               | <b>4500</b>   |  |
| Minimum test duration [s]       | <b>10</b>   |  |
| <b>Result</b>                   |   |  |
| Test duration [s]               | <b>15.3</b>   |  |
| Any signs of structural failure | <b>No</b>   |  |
| Test results                    | <b>POSITIVE</b>                                     |  |



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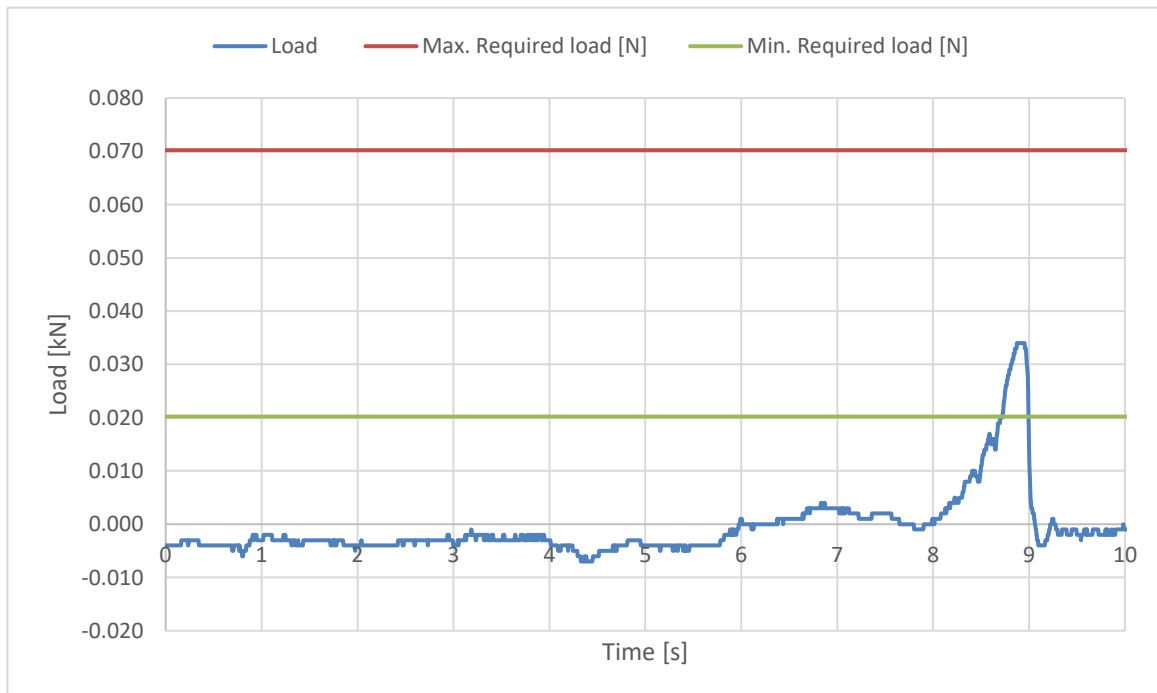
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**Rescue Deployment Test**

**Test ID RRDT**

|                           |  |
|---------------------------|--|
| Standard                  | <b>LTF NfL II 91/09</b>  |
| Reference in standard     | <b>6.1.5</b>   |
| Test setup                | <b>Default flying position</b>   |
| Attachment points         | <b>Sensor connect to handle, and pull in opening direction</b>                         |
|                           | The test is to simulate the load required to open the emergency parachute(1st action). |
| Min. Required load [N]    | <b>20</b>  |
| Max. Required load [N]    | <b>70</b>  |
| <b>Result</b>             |  |
| Load for first action [N] | <b>33.80</b>   |
| Test results              | <b>POSITIVE</b>  |



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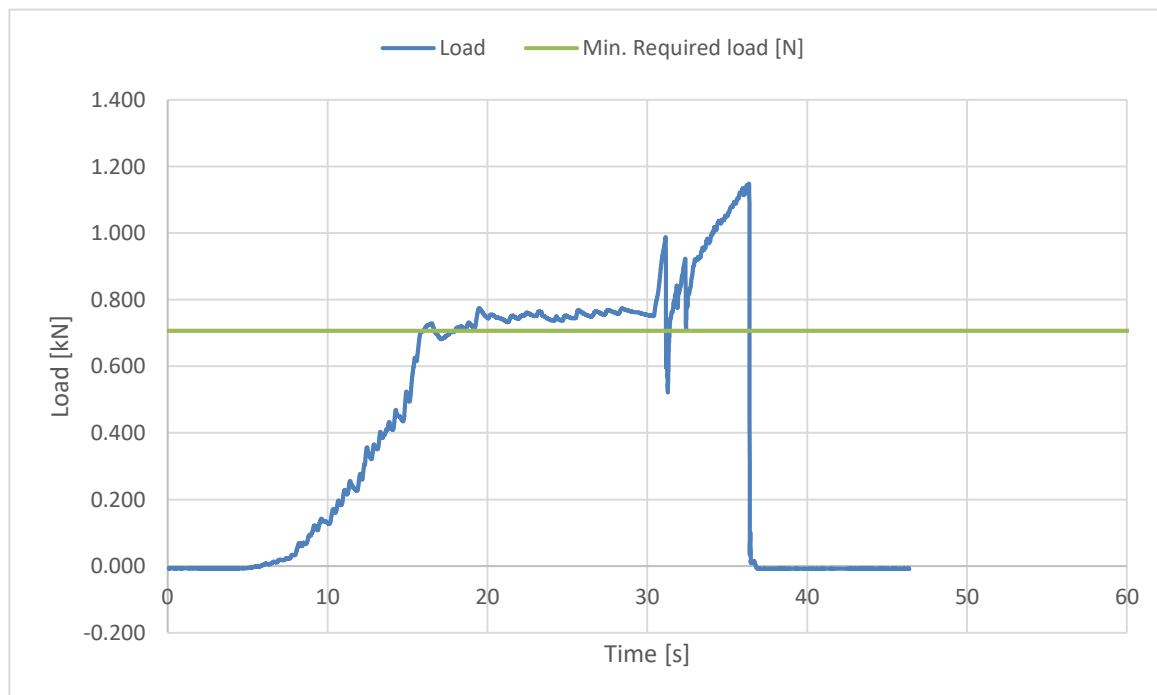
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**Rescue Deployment Handle strength test**

**Test ID RRST**

|                           |   |
|---------------------------|---|
| Standard                  | <b>EN12491:2015</b>   |
| Reference in standard     | <b>5.3.2</b>  |
| Test setup                | <b>Two end points of handle</b>   |
| Attachment points         | <b>Sensor connect to end of handle, pull on the other side</b>              |
|                           | The handle must support min 700 N for 10 s, after measure breaking strength |
| Min. Required load [N]    | <b>700</b>  |
| Minimum test duration [s] | <b>10</b>   |
| <b>Result</b>             |   |
| Test duration [s]:        | <b>13.2</b>   |
| Breaking strength [N]     | <b>1142.10</b>  |
| Test results              | <b>POSITIVE</b>   |



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