Report no EUFI29-18000347-T2



# **Expert Services**

1 (6)

Requested by	Avant Tecno Oy Ylötie 1 FI-33470 YLÖJÄRVI
Order	Email Olli Hankamäki 30.11.2018
Contact person	Eurofins Expert Services Oy Kari Maunula Vakolantie 55 FI-03400 Vihti Tel. +358400-770784 Email KariMaunula@eurofins.fi

Assignment

Earth-moving machinery - Roll-over protective structures

# **ROPS test report for ISO 3471:2008**



# Avant 850/860i



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### 1 Identification

#### 1.1 Machine

Туре	Wheeled earth-moving machine
Manufacturer	Avant Tecno Oy
Models	Avant 850/860i
Serial number	proto
Machine frame part numbers	A429045
-	A21732
	A426647A

A426629A

### **1.2. ROPS**

Manufacturer	Avant Tecno Oy
Model	Avant 850/860i
Serial number	proto
ROPS part numbers	A426681
	A426672
	A426668B
	A48909A
	A48905A

#### 2. Information supplied by manufacturer

Maximum recommended mass	4000 kg
Location of DLV	A430717

### 3. Criteria

Lateral load force	24.0 kN
Lateral load energy	4.0 kJ
Vertical load force	78.4 kN
Longitudinal load force	19.2 kN



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## **Expert Services**

#### 4. Test results

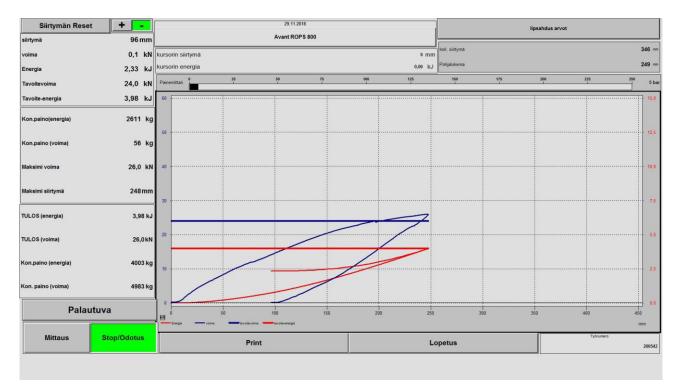
The following force and energy levels were achieved or exceeded with no penetration by the ROPS structural member or the simulated ground planes (where applicable) into the DLV.

4.1.	Lateral loading (left-hand side) Maximum force attained after the energy requirement was achieved or exceeded 26.0 kN						
	was achieved or exceeded Absorbed energy attained	20.0 kN 4.0 kJ					
4.2.	<b>Vertical loading</b> Maximum force attained	79.1 kN					
4.3.	<b>Longitudinal loading (from rear)</b> Maximum force attained	19.4 kN					

#### **4.4. Temperature** The test was performed with ROPS and machine frame members soaked to -18 °C.

#### 4.5. Use of special suspension or shock-absorption system None

#### 4.6. Force-deflection curves for loading tests





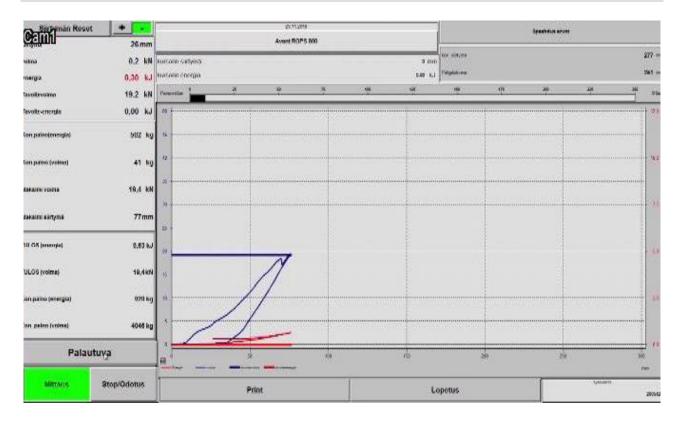
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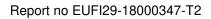
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4.7.

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## Photo of specimen

Test specimen before the tests and after each test criteria (lateral, vertical and longitudinal).









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### Report no EUFI29-18000347-T2

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#### 5. Attestation statement

The minimum performance requirements of ISO 3471:2008 were met in these tests for a<br/>maximum machine mass of<br/>Uncertainty of measurements (k=2)4000 kgDate of test1 %<br/>29.11.2018

Vihti, 18.06.2019

Kari Maunula Expert

Appendices

A21732 A426647A A426629A A426681 A426672 A426668B A48909A A48905A A430717

A429045

Distribution

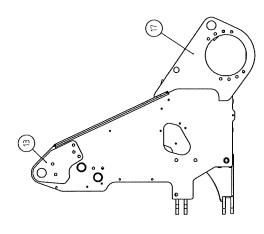
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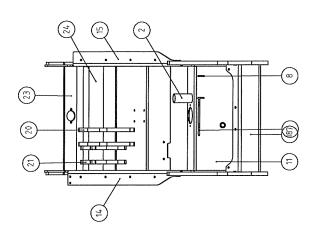


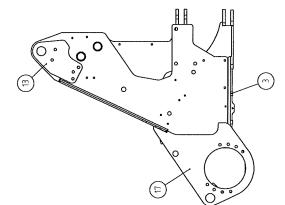
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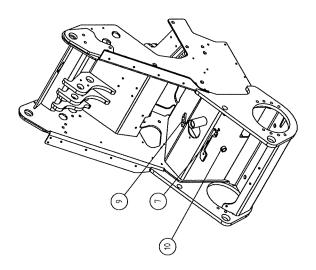
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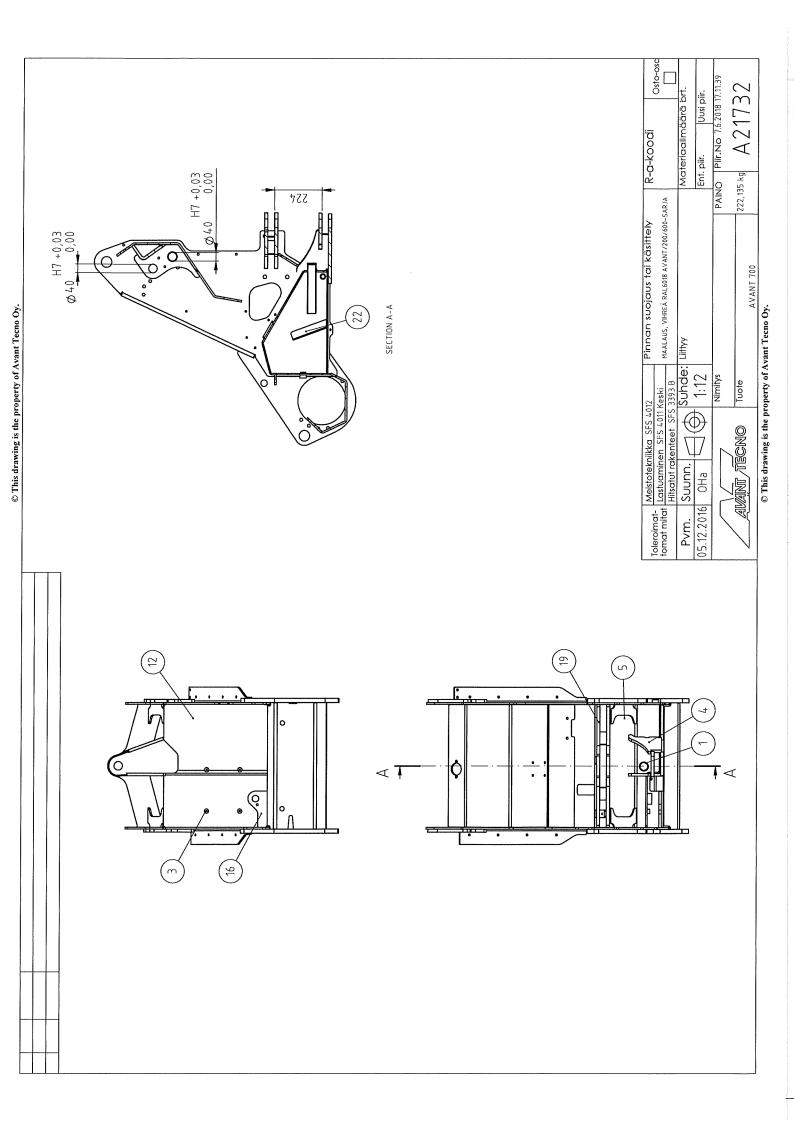


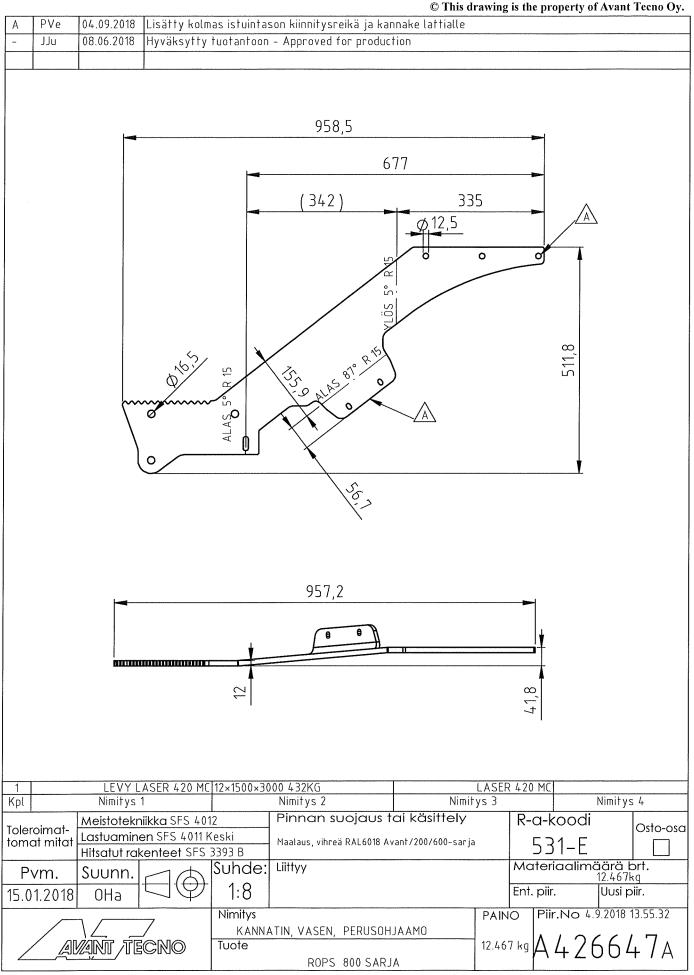


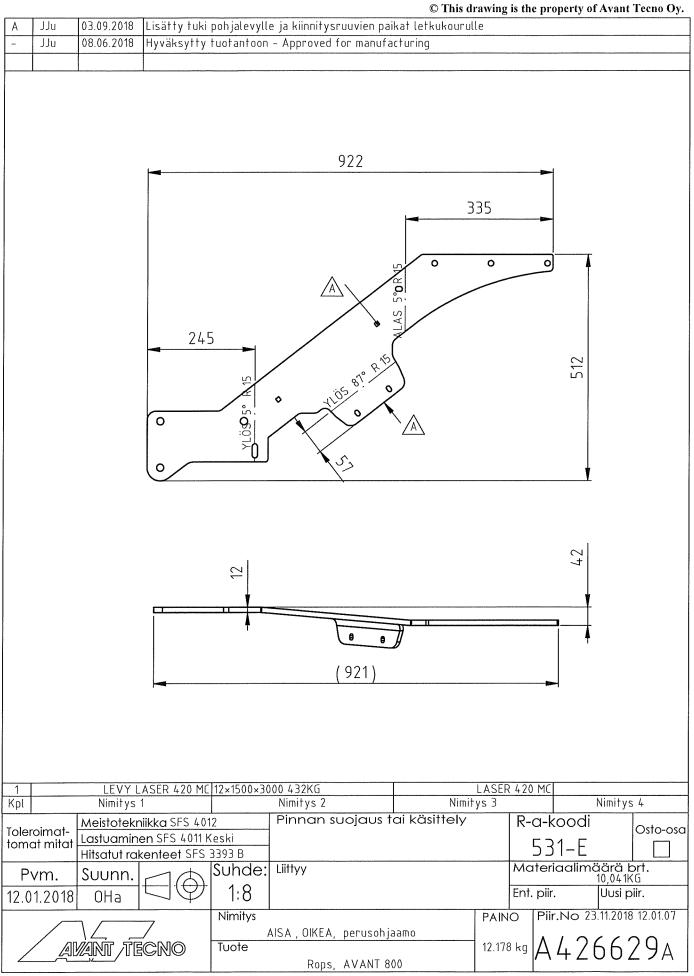


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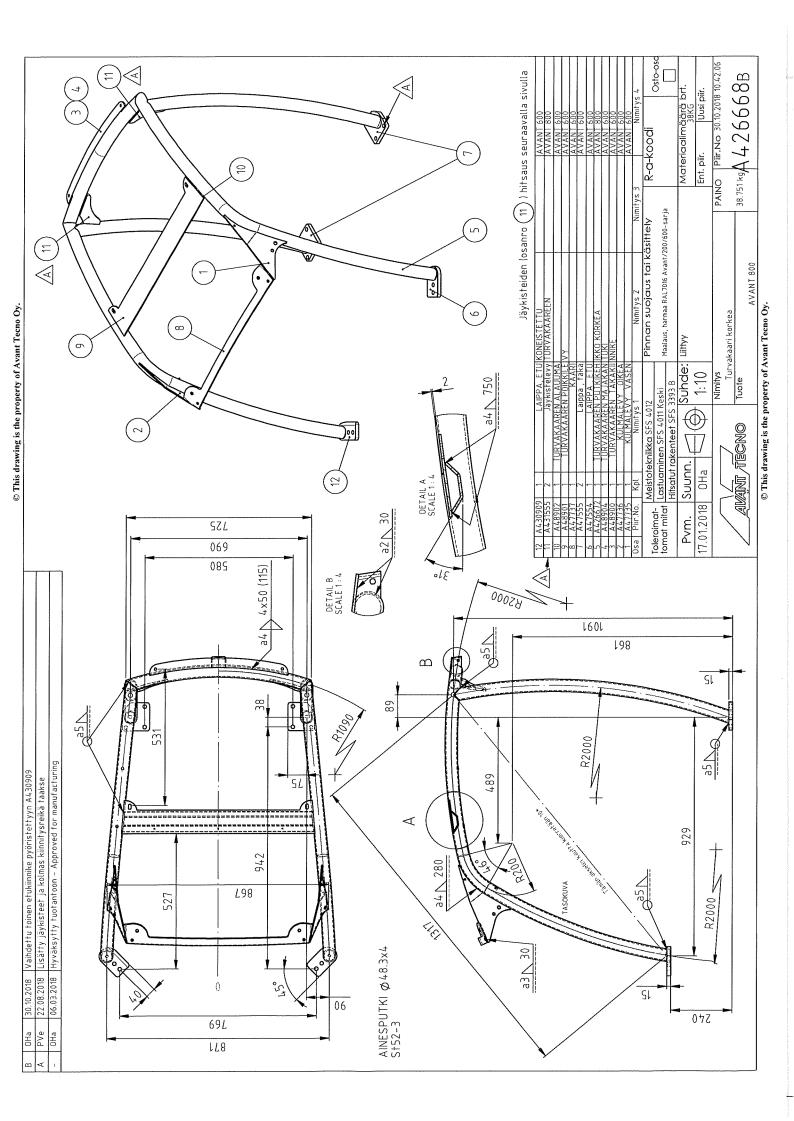


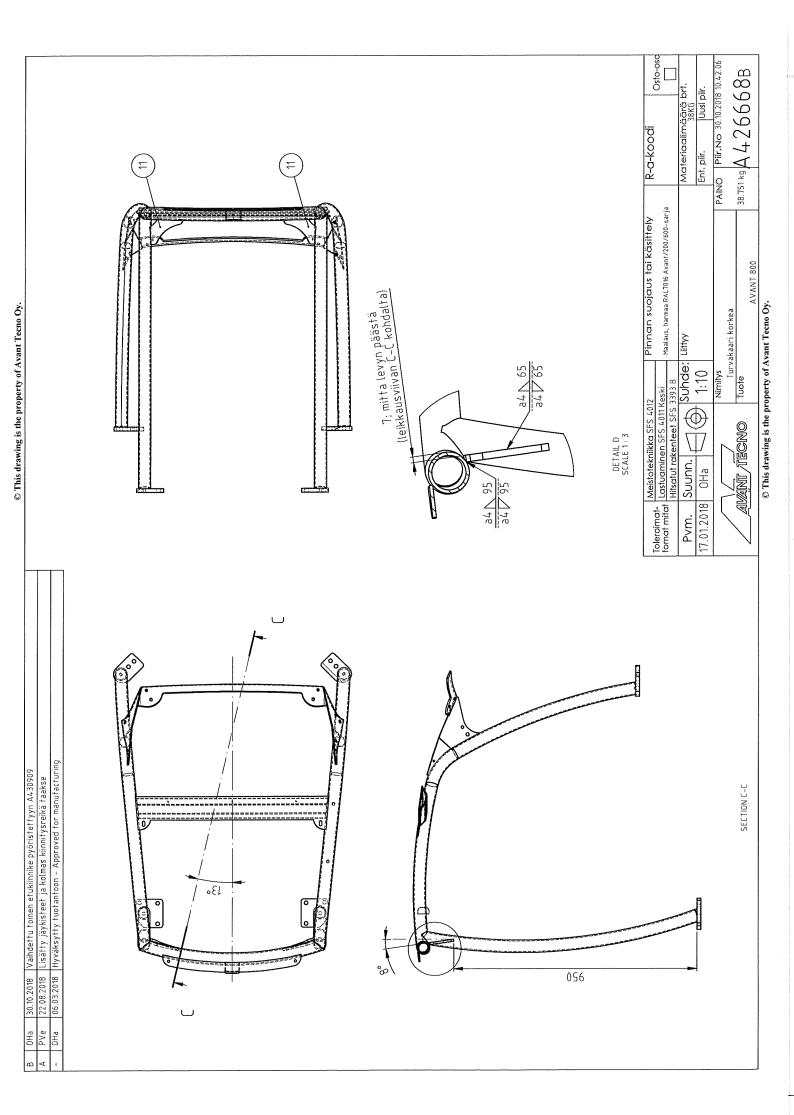


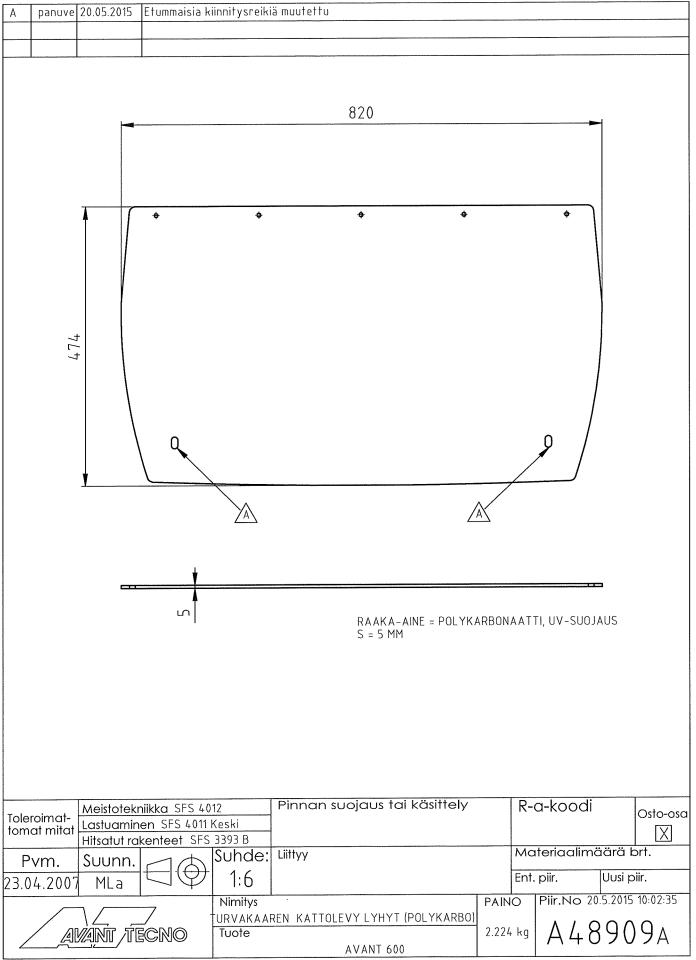
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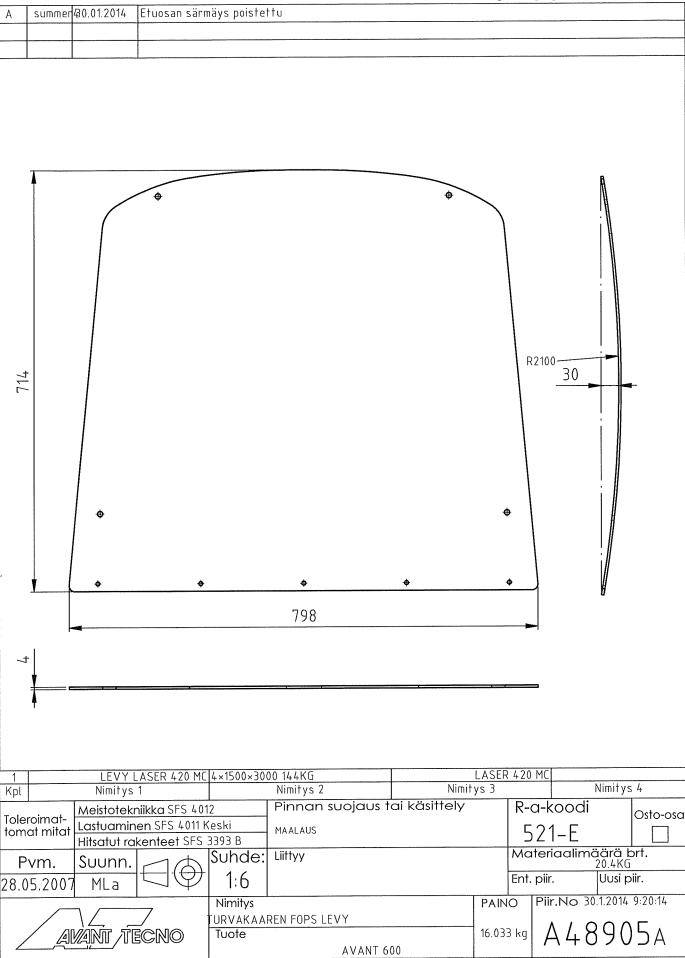
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