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#### TQS-RAP-08.17085.04

Test report relating to office work desks  
according to the European standard EN 527 part  
1 to 3, concerning the product with trade mark:  
Havic Proline, type: T-legs, version:  
2000x1000mm.

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Project name	Havic Proline T-legs
Project number	08.17085

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## Abstract

The office work desk, trademark: Havic Proline, type: T-legs, version(s): 2000x1000mm, has been tested according to the European Standards EN 527-1 [1], EN 527-2 [2] and EN 527-3 [3].

The tests have been performed in order to judge whether or not the office work desk meets the applicable requirements of the above-mentioned Standards. The conclusion is that the product shows compliance with these requirements.

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# 1 Introduction

## 1.1 Purpose

The tests have been performed in order to judge whether or not the product meets the requirements of the European Standards EN 527-1 [1] and EN 527-2 [2].

## 1.2 Description of the sample(s)

General	
Manufacturer	Sondag Holding BV
Trademark	Havic Proline

Table 1: Description of the sample(s)

Sample number	Type	Version	Serial number
MT.08.17085.02	T-legs	2000x1000mm	--

For a more detailed description of the sample is referred to Appendix A.

The sample was submitted on 20 August 2008. The sample was test worthy.

## 1.3 Sampling procedure

The sample has been submitted by the representative of the manufacturer. The test house has had no influence on the selection of the sample.

## 1.4 Application

The request for testing was submitted by Sondag Holding BV.  
Order number: not applicable.

## 1.5 Method of testing

All applicable tests have been performed according to the European Standard EN 527-3 [3].

## 1.6 Put out to contract

No tests were put out to contract, all tests are performed by TNO Quality Services BV.

## 2 Test results

Test results after performing all applicable tests according to the European Standards EN 527-1 [1]:

<b>3 Size of work surface</b>	pass
<b>4 Height of work surfaces</b>	pass
<b>5 Leg room</b>	pass

and EN 527-2 [2]:

<b>3 General design requirements</b>	pass
<b>4 Structural safety requirements</b>	pass

For detailed test results is referred to Appendix B.

### 3 Conclusion


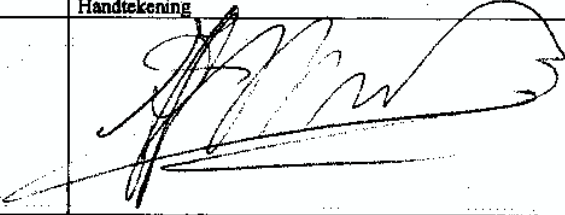
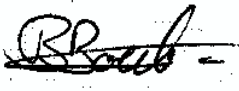
The office work desk, trademark: Havic Proline, type: T-legs, version(s): 2000x1000mm, meets the applicable requirements as stated in the European Standards EN 527-1 [1] and EN 527-2 [2].

The test results exclusively relate to the inspected object.

## 4 References

- 1 European Standard EN 527-1:2000 E,  
Office furniture – Work tables and desks – Part 1: Dimensions,  
European Committee of Standardization, Januari 2000.  
  
European Standard EN 527-1:2000/C1:2003, Corrigendum.
- 2 European Standard EN 527-2:2002 E,  
Office furniture – Work tables and desks – Part 2: Mechanical safety requirements,  
European Committee of Standardization, October 2002.
- 3 European Standard EN 527-3:2003 E,  
Office furniture – Work tables and desks – Part 3: Methods of tests for the  
determination of the stability and the mechanical strength of the structure,  
European Committee of Standardization, February 2003.

## 5 Signature

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<b>Business unit manager</b>	

## Appendix A: Product identification

Manufacturer	Sondag Holding BV
Trademark	Havic Proline
Type	T-legs
Version	2000x1000mm

Height of the table	mechanically adjustable
If adjustable, reach	from 612 mm to 855 mm
If adjustable, step height	20 mm
Dimensions of work space	2000 x 1000 mm



Figure 1: Photograph of the tested sample, trademark: Havic Proline, type: T-legs, version: 2000x1000mm

## Appendix B: Detailed test results

Each under-mentioned requirement states only a very short description and refers to the complete text in the applicable standards.

Sample nr:	MT.08.17085.02	Results for type:	T-legs	Version:	2000x1000mm		
Req. nr.	Description of the requirement	Required	Value of the test	Pass / fail / n.a.			
	<b>EN 527-1</b>						
<b>3</b>	<b>Size of work surface</b>						
3.1	General principles The work surface of the desk shall be	sufficiently large to allow the user safe and flexibel arrangement for display screen, keyboard, telephone, documents etc.	sufficiently large	pass			
3.2	Work surface dimensions The work surface of the desk shall	have an usable area of at least 0.96 m <sup>2</sup> including leg room as required in 5	2 m <sup>2</sup>	pass			
		provide sufficient depth to meet functional requirements	sufficient depth	pass			
		provide sufficient front edge width for the upper body	sufficient front edge width	pass			
3.3	Rectangular desks The minimum dimensions shall be	not less than 1200 mm wide and 800 mm deep	2000 mm wide and 1000 mm deep	pass			
<b>4</b>	<b>Height of work surfaces</b>						
4.1	Fixed height desks The height shall be	720 ± 15 mm	mm	not applicable			
4.2	Height-adjustable desks The minimum range shall be	680 – 760 mm	600 – 850 mm	pass			
<b>5</b>	<b>Leg room</b>						
5.1	Fixed height desks Legroom shall be provided as follows	a clear width of ≥ 600 mm	mm	not applicable			
		a clear depth of ≥ 600 mm from the front edge	mm	not applicable			
		vertical clear space of ≥ 650 mm from the floor	mm	not applicable			
	If there is no clear space throughout the clear depth of 600 mm:	620 mm height at 200 mm from the front edge	mm at 200 mm	not applicable			
		550 mm height at 450 mm from the front edge	mm at 450 mm	not applicable			

Sample nr:	MT.08.17085.02	Results for type:	T-legs	Version:	2000x1000mm		
Req. nr.	Description of the requirement	Required	Value of the test	Pass / fail / n.a.			
		120 mm height at 600 mm from the front edge	mm at 600 mm	not applicable			
5.2	Height-adjustable desks When set at 720 mm height, shall comply with the requirements for clear space in 5.1	a clear width of $\geq 600$ mm	1700 mm	pass			
		a clear depth of $\geq 600$ mm from the front edge	1000 mm	pass			
		vertical clear space of $\geq 650$ mm from the floor	677 mm	pass			
	If there is no clear space throughout the clear depth of 600 mm:	620 mm height at 200 mm from the front edge	677 mm at 200 mm	pass			
		550 mm height at 450 mm from the front edge	677 mm at 450 mm	pass			
		120 mm height at 600 mm from the front edge	677 mm at 600 mm	pass			
	<b>EN 527-2</b>						
<b>3</b>	<b>General design requirements</b>						
	The table shall be so designed	as to minimise the risk of injury to the user	minimises the risk	pass			
	Supporting elements shall be so placed	as not to restrict the movements of the user	no restrictions	pass			
	Intermediate supporting elements	< 100 mm or > 450 mm from the front edge of the table		pass			
	All parts with which the user comes into contact during intended use	edges and corners free from burs and rounded or chamfered	free from burs rounded chamfered	pass			
		edges and corners rounded with a radius $\geq 2$ mm	radius = $\geq 2$ mm	pass			
		movable and adjustable parts are designed to minimise risk of injuries and inadvertent operation or release	minimises risk	pass			
		safety distance between accessible movable parts is either $\leq 8$ or $\geq 25$ mm in any position	safety distance = $\geq 25$ mm	pass			
		handles are designed so that they cannot trap fingers	cannot trap fingers	pass			

Sample nr:	MT.08.17085.02	Results for type:	T-legs	Version:	2000x1000mm		
Req. nr.	Description of the requirement	Required	Value of the test	Pass / fail / n.a.			
		ends of feet and hollow components are closed or capped	closed or capped	pass			
<b>4</b>	<b>Structural safety requirements</b>						
(4.1	Test sequence)						
4.2	After tests 5.2 to 5.6 of EN 527-3	no fracture of any member, joint or component	no fracture	pass			
		no loosening of joints intended to be rigid	no loosening of joints	pass			
		no major structural element significantly deformed	no major element deformed	pass			
		the table fulfils its functions after removal of test loads	table fulfils its functions	pass			
		adjusting screws fulfil their functions	screws fulfil their functions	pass			
4.3	Stability requirements During the stability test specified in EN 527-3 par. 5.1	- the table does not overbalance or - rest supported on the drawers and - all feet return to the ground when the loads are removed	no overbalance  not resting on drawers  all feet return to the ground	pass  pass  pass			

## Appendix C: Remarks

Sample nr:	MT.08.17085.02	Results for type:	T-legs	Version:	2000x1000mm
<b>Req. nr.</b>	<b>Description of the requirement</b>	<b>Remark:</b>			
		No remarks			

End of test report relating to office work desks according to the European standard EN 527 part 1 to 3.