



C-36-001498

BIOMECHANICAL QUALITY CERTIFICATE

UMANA

Biomechanical Analysis Health Centre (C-36-001498)

CERTIFIES

that the product

SENSE CHAIR



developed and marketed by
GRUPO FORMA 5 S.L.U.

provides
GOOD [7.45 points]
ergonomics

for the health and comfort of users regarding thermal behaviour,
contact comfort and spine deformation
(as described in the technical annex).

UMANA guarantees the accuracy and objectivity of the biomechanical tests, which have been carried out under strict study protocols. The values of the analysis parameters are thus obtained in a direct, instrumental way without human intervention.

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TECHNICAL ANNEX

Detailed evaluation of the biomechanical quality of SENSE CHAIR (FORMA 5)

Biomechanical Parameter		Value	Explanation of Results	
Thermal Evaluation	Seat	Good	(1) The seat has a good thermal behaviour for the support of thighs and buttocks, as the epithelial temperature does not exceed 32.2 °C . (2) This temperature is within the comfort range, and reduces perspiration in thighs and buttocks.	
	Backrest	Very Good	(1) The backrest has a very good thermal behaviour for the support of the thighs and buttocks, as the epithelial temperature does not exceed 31.8 °C . (2) This temperature falls in the comfort range, and reduces perspiration in the back.	
Pressures Evaluation	Seat	Correct	(1) The seat has a correct elastic behaviour for the support of thighs and buttocks, with average pressures of 30.2 mmHg and a maximum of 108.6 mmHg . (2) These values fall, on average, in the comfort range.	
	Backrest	Very Good	(1) The backrest has a very good elastic behaviour for the support of the back, with average pressures of 8 mmHg and a maximum one of 34.8 mmHg . (2) These values are within the comfort range.	
Spinal Evaluation	Lower Back	Lumbar	Correct	(1) The backrest presents a correct behaviour for the lower back support, as the angular deformations in the lumbar and lower thoracic vertebral units are -52.9% and 2.8% respectively . (2) These values fall in the comfort range.
		Lower Thoracic		
	Upper Back	Upper Thoracic	Correct	(1) The backrest presents a correct behaviour for the support of the upper thoracic back, as the angular deformations (horizontal view) in the upper thoracic and cervical vertebral units are 14.5% and -10.3% respectively . (2) These values fall in the comfort range.
		Cervical		

Excellent	<8
Good	6.5-8
Correct	5-6.5
Medium	2.5-5
Bad	<2.5