Iberográfica Capa Rota - Portugal	Comparison Conventional blankets	**Compressibility** Indentation	Doc. PROC - LAB - 015 Data: 19 - 04 - 2011 Folha. 1 de 3	Rev. 0

Item #	Brand /Model	Sample #/ / Job #	D0	D01	D04	D4k/3	D5k/3	D1	D4	D5	I1	I5	Ip1	Ip5	Comp. Loss	Gauge Loss @ 1st cycle		60kPa	1060kPa	Hysteresis Wk/3	Energy	Elastic Energy	Damping Capacity	Test Time
			Thickness								Indentation													
			mm	mm	mm	mm	mm	mm	mm	mm	µm	µm	%	%	%	µm	1st%	µm	µm	µm	HENmm	EENmm	(DC)%	s
1	C / II	31F/green	1,99	1,95	1,95	1,91	1,92	1,89	1,88	1,88	104	66	5,2	3,4	36,4	37	88,7	41	3	7	0,32	3,24	9,8	44,1
2	F / IX	32F/brown	1,92	1,89	1,88	1,86	1,86	1,83	1,82	1,83	95	58	4,9	3,1	38,8	34	83,7	40	4	6	0,003	2,85	0,1	40,3
3	E / VII	33F/grey	2,02	1,97	1,96	1,91	1,92	1,87	1,86	1,86	151	95	7,5	4,9	37,0	50	86,0	58	2	14	0,68	4,58	14,8	61,8
4	E / VIII	34F/grey	1,96	1,92	1,92	1,87	1,88	1,84	1,84	1,84	118	81	6,0	4,2	31,4	36	83,1	44	7	10	0,56	4,08	13,8	51,7
5	K / I	35F/-	2,04	1,99	1,98	1,92	1,94	1,87	1,87	1,87	169	110	8,3	5,5	35,1	54	81,5	67	8	20	0,97	5,54	17,4	69,4

LEGEND

Test Details

Standard:
ISO 12636 section 4.5

Equipment:
Lloyd LR 10K Plus
Speed: 1 mm/min
Test Time: (D5-D0) s

Thickness

D0; D01; D04: @ 60kPa
D4k/3; D5k/3: @ 393kPa
D1; D4, D5: @ 1060kPa

Indentation

I1 = (D0 - D1) mm
I5 = (D04 - D5) mm

Ip1 = [((D0 - D1) / D0) * 100] %
Ip5 = [((D04 - D5) / D04) * 100] %

Compressive Loss

Indentation reduction
from the 1st to the 5th
compression cycles.
CL = [((I1 - I5)/I1)*100] %

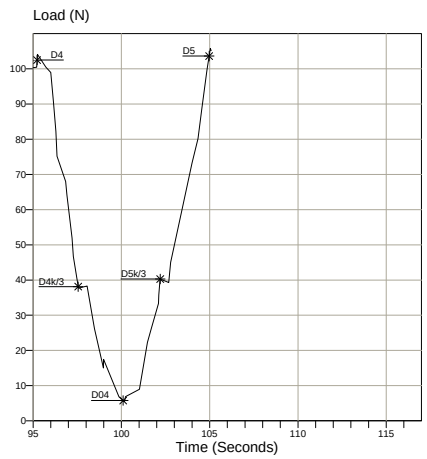
Gauge Loss @

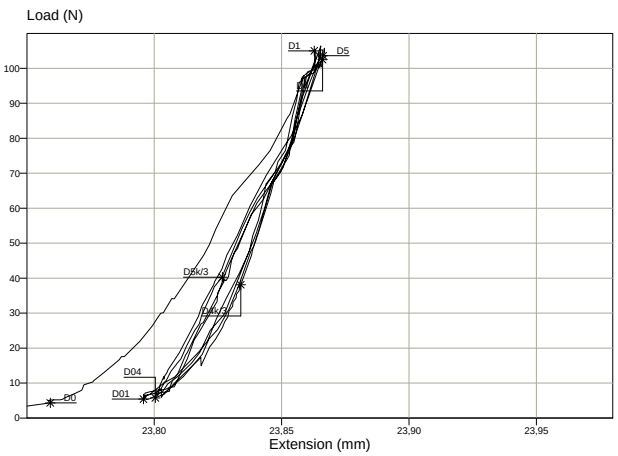
60kPa: 1st Cycle: (D0 - D01) µm
1st%: 1stCycle/full Test %
[((D0-D01)/(D0-D04)+100]%
Full Test: (D0 - D04) µm
1060kPa: (D1 - D5) µm

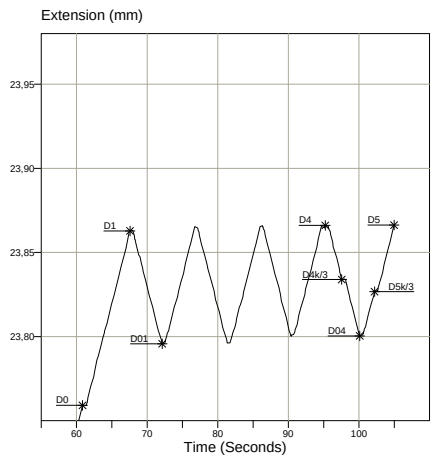
Hysteresis

Values valid for a specific stress cycle
W(window):Gauge variation due to stress history
Wk/3: Gauge variation @393kPa (D5k/3-D4k/3) µm

HE: Heat generated in one cycle (D5-D4) Nmm
EE: Elastic deformation energy (D5-D04) Nmm
DC: Damping Capacity [((D5-D4)/(D5-D04))*100] %







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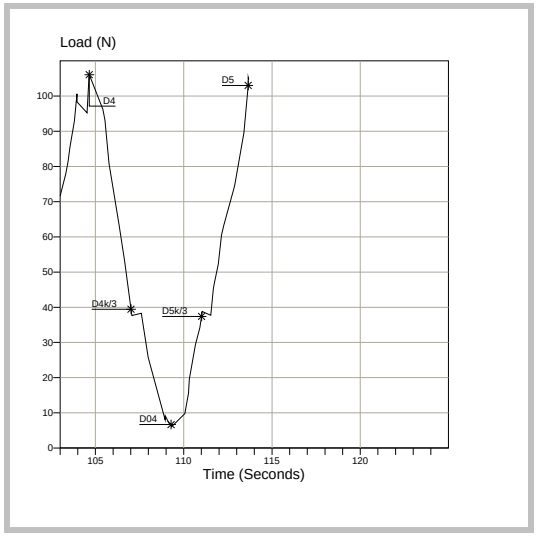

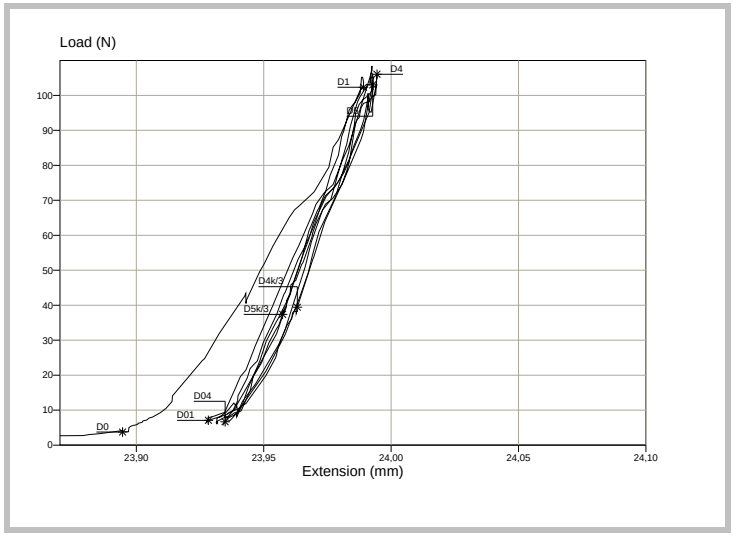

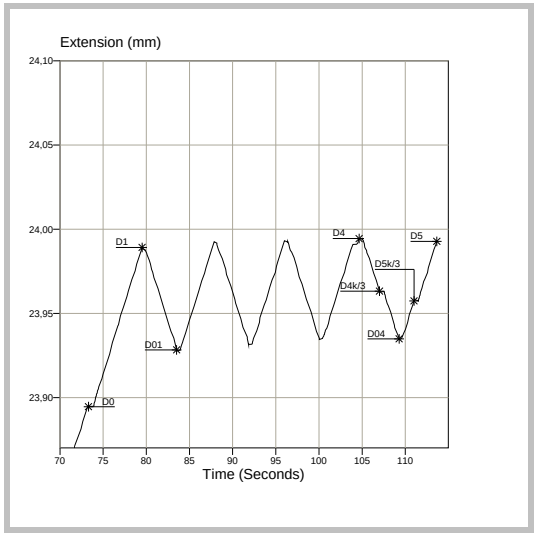

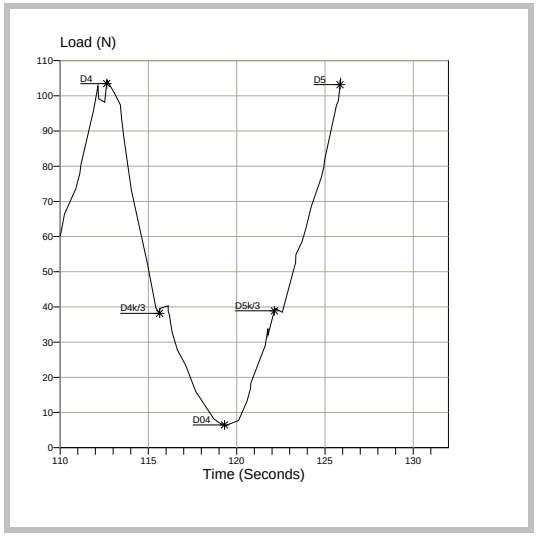

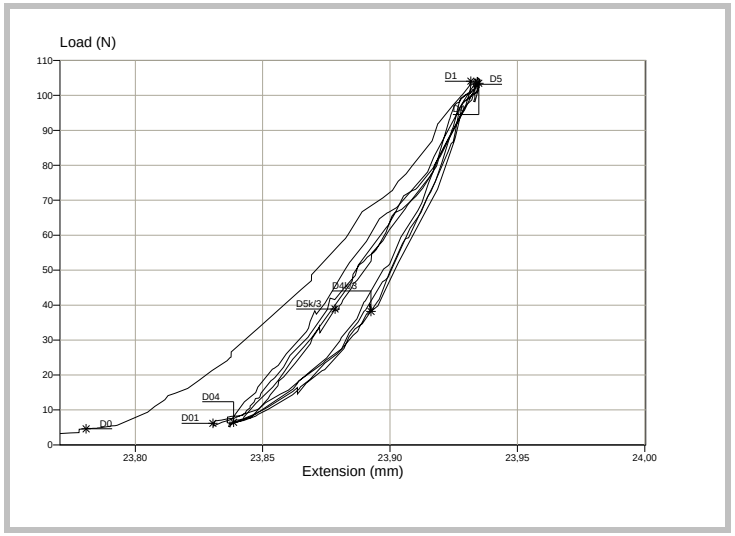

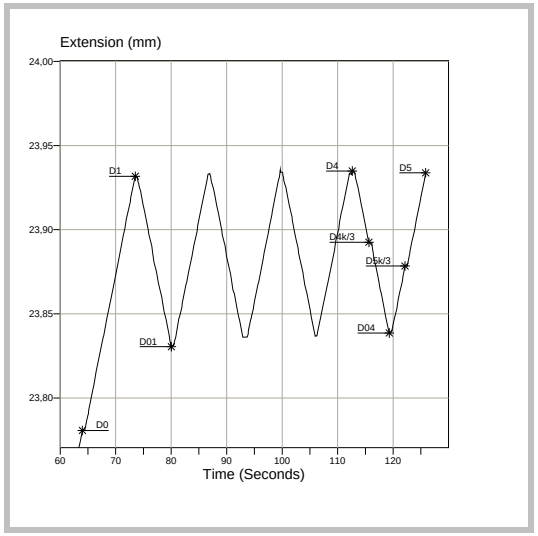
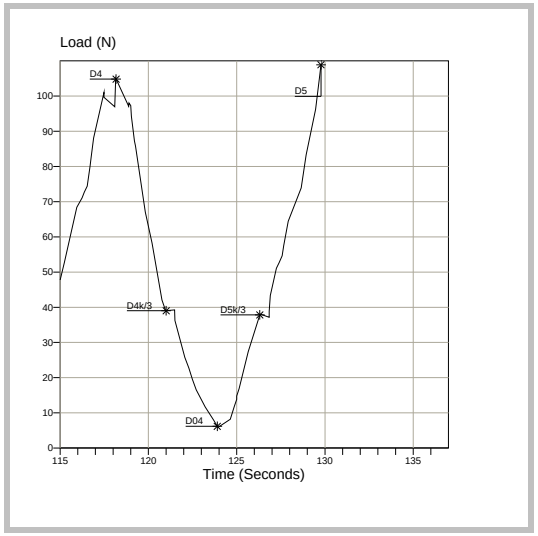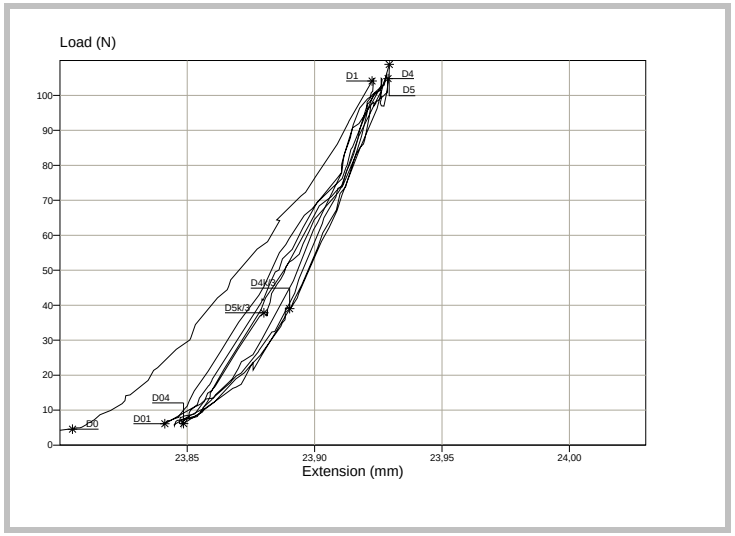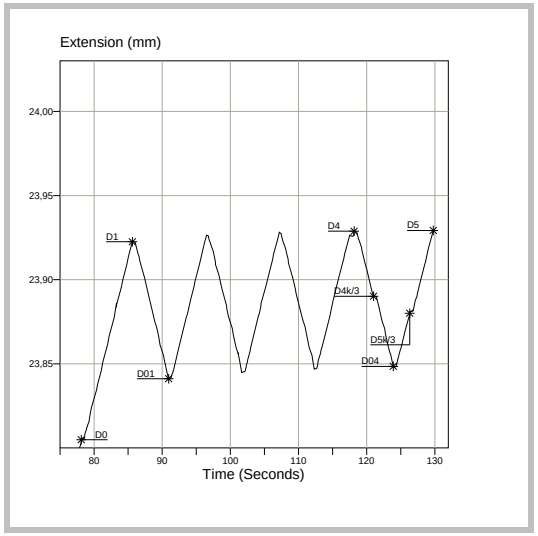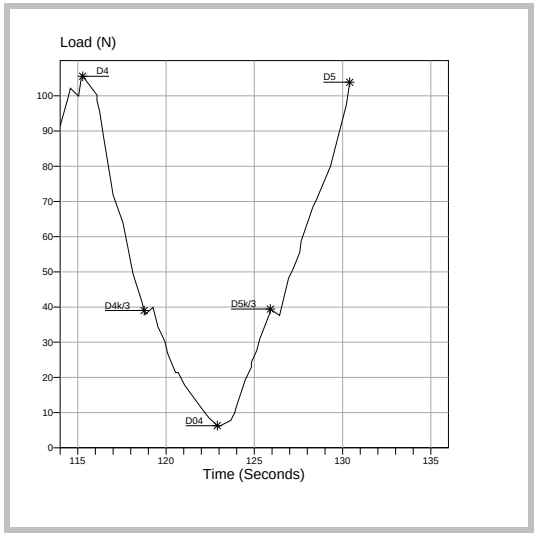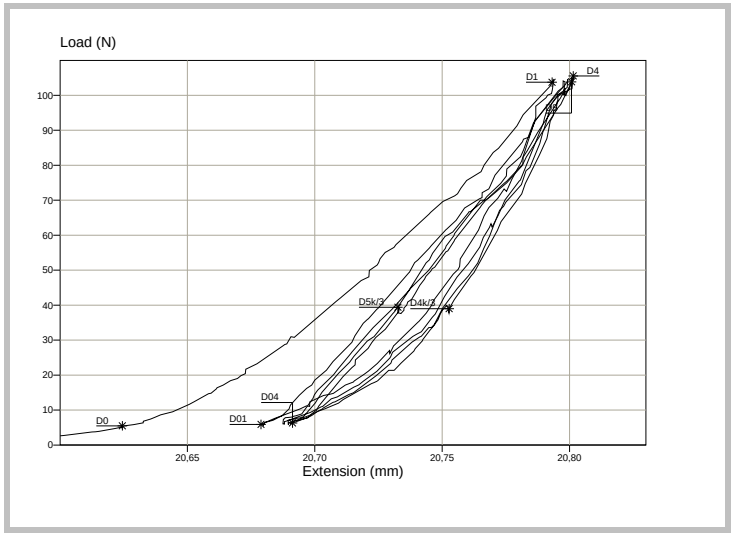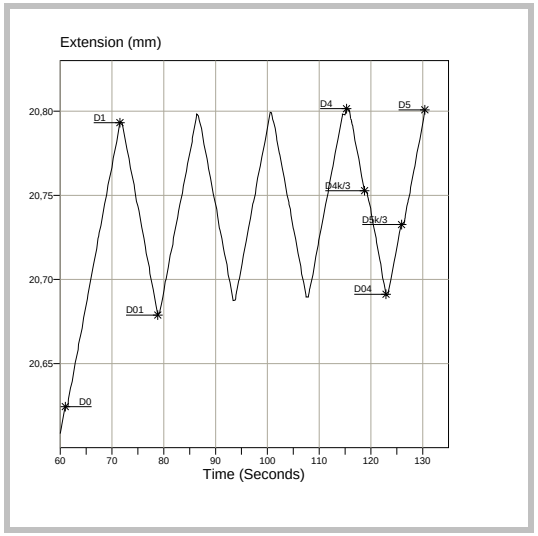
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