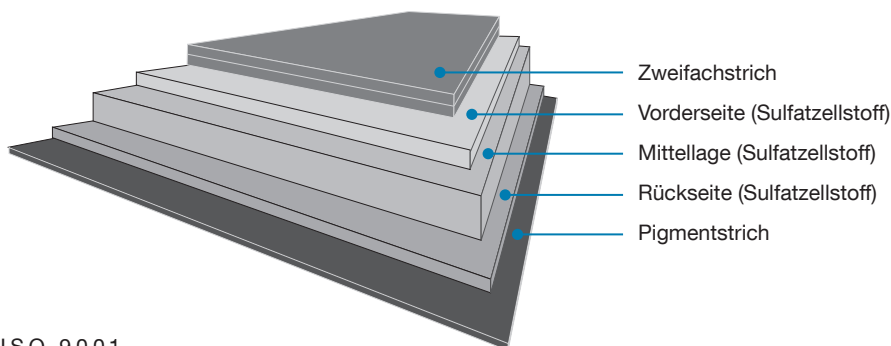


California

Gestrichener Zellstoffkarton (SBS) mit pigmentierter Rückseite



ISO 9001

Gültig ab:
Ersetzt Version:

Technische Richtwerte für California:

Eigenschaft/Einheit	Toleranz											Prüfmethoden
Flächengewicht, g/m ²	±4%	190	210	230	250	275	300	330	350	380		ISO 536
Dicke, µm	±4%	200	230	270	300	330	365	415	445	485		ISO 534
Biegesteifigkeit DIN 5° MD, mNm	-15%	6.4	8.9	13.6	17.9	23.0	31.9	42.5	49.3	62.9		ISO 2493
Biegesteifigkeit DIN 5° CD, mNm	-15%	3.0	4.3	6.4	8.5	11.1	15.3	20.4	23.0	29.8		
Biegemoment Taber 15° MD, mNm	-15%	3.6	5.1	7.7	10.1	13.0	18.1	24.2	28.0	35.7		
Biegemoment Taber 15° CD, mNm	-15%	1.7	2.4	3.6	4.8	6.3	8.7	11.6	13.0	16.9		
Biege widerstand L&W 15° MD, mN	-15%	75	105	160	210	270	375	500	580	740		
Biege widerstand L&W 15° CD, mN	-15%	35	50	75	100	130	180	240	270	350		
Wassergehalt, %		6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5		ISO 287
ISO Brightness C/2°, %, Vorderseite		95	95	95	95	95	95	95	95	95		ISO 2470
ISO Brightness C/2°, %, Rückseite		93	93	93	93	93	93	93	93	93		
CIE-Weißgrad D65/10°, Vorderseite		125	125	125	125	125	125	125	125	125		ISO 11475
CIE-Weißgrad D65/10°, Rückseite		121	121	121	121	121	121	121	121	121		
L*, Vorderseite		97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7		SCAN-P72
a*, Vorderseite		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
b*, Vorderseite		-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1		
Glätte nach, PPS 10, µm, Vorderseite	max 1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9		ISO 8791-4
Glätte nach, PPS 10, µm, Rückseite		<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0		
Glätte Top Bendtsen, ml/Min, Vorderseite		20	20	20	20	20	20	20	20	20		ISO 8791-2
Glätte Top Bendtsen, ml/Min, Rückseite		<100	<100	<200	<200	<200	<200	<300	<300	<400		
Scott Bond, J/m ²		220	220	220	220	220	220	220	220	220		TAPPI 569 pm-00
Glanz 75°, %, Vorderseite		48	48	48	48	48	48	48	48	48		ISO 8254-1

Alle Eigenschaften entsprechen den Messungen des Werkes Imatra.

Prüfklima 23°C / 50 % r.F. (entsprechend ISO 187). Um unsere Toleranzwerte zu überprüfen, wird der Rollen-/Palettendurchschnitt mittels 5 einzelnen Messungen nach dem Zufallsprinzip pro Rolle/Format ermittelt. Dieser Durchschnittswert liegt bei mind. 19 von 20 Rollen/Paletten innerhalb des Spezifikations-Sollbereiches.

Imatra Mill ist zertifiziert nach FSC und PEFC Chain-of-Custody (CoC) und nach einem Hygiene Management System.

FSC: Zertifikats-Registrierungscode SA-COC-001548 und SA-CW-001548
PEFC: Zertifikat-Registrier-Nr. 46786-2009-AE-FIN-FINAS



DET NORSKE VERITAS

FSC CHAIN OF CUSTODY CERTIFICATE

Certificate No. DNV-FM/COC-000066

This is to certify that

Stora Enso Skog AB

IN SWEDEN

*has been found to conform to FSC-STD-40-004 ver 2.0
and to*

“Svensk FSC Standard för certifiering av skogsbruk”

This Certificate is valid for:

**Trade of contribution articles, pulpwood, timber, chips of cellulose and biofuel and also transporting of those including the total timber flow to Stora Enso's Swedish industries.
FSC Pure and FSC Mixed**

A list of the certificated products can be obtained from the FSC database, www.fsc.org.

This Certificate is valid until:
2012-05-06



ACCREDITED
FSC-ACC-022

FSC Trademark © 1996
Forest Stewardship Council A.C.

*The audit has been performed
under the supervision of:*

Elisabet Bröms Sterner
Lead Auditor

Place and date:

Stockholm, 2008-09-01

for the Accredited Unit:
DNV CERTIFICATION AB,
SWEDEN

Jimmy Nilsson
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
This certificate is the property of DNV Certification AB and must be returned on request.



DET NORSKE VERITAS

APPENDIX TO CERTIFICATE

This Appendix refers to Certificate No. DNV-FM/COC-000066

Stora Enso Skog AB

locations included in the certification are as follows:

Region North

Mora

Districts:

Sveg, Siljan, Falun, Bollnäs

Region East

Gävle

Districts:

Ockelbo, Dalälven, Mälars, Hagge, Hällefors

Region West

Karlstad

Districts:

Torsby, Storfors, Fryken, Värmbodal

This Certificate is valid until:

2012-05-06



ACCREDITED
FSC-ACC-022

FSC Trademark © 1996
Forest Stewardship Council A.C.

*The audit has been performed
under the supervision of:*

Elisabet Bröms Sterner
Lead Auditor

Place and date:

Stockholm, 2008-09-01

for the Accredited Unit:
DNV CERTIFICATION AB,
SWEDEN

Jimmy Nilsson
Management Representative

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DET NORSKE VERITAS

PEFC MANAGEMENT OF FORESTS CERTIFICATE PEFC CONTRACTOR CERTIFICATE

Certificate No. 2008-SKM-PEFC-30

This is to certify that

Stora Enso Skog AB

in

SWEDEN

Sites According to appendix

has been found to conform to

the requirements of the Swedish PEFC organization PEFC/05-1-1 "Kombinerat Tekniskt dokument II godkänt av PEFCC 28 feb. 2006"

This Certificate is valid for:

**Umbrella organization for group certification for forest management
and forestry contractors.**

Initial Certification date:

2004-11-30

This Certificate is valid until:

2014-11-30

*The audit has been performed
under the supervision of:*

Elisabet Bröms Sterner
Lead Auditor



1053
EN 45011

Place and date:

Stockholm, 2009-12-21

for the Accredited Unit:

DNV CERTIFICATION AB,
SWEDEN

Ann-Louise Pått
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.



DET NORSKE VERITAS

APPENDIX TO CERTIFICATE

This Appendix refers to Certificate No. Certificate No. 2008-SKM-PEFC-30

Stora Enso Skog AB

locations included in the certification are as follows:

Region North

Mora

District:

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Gävle

District:

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District:

Torsby, Storfors, Fryken, Värmbodal

Initial Certification date:

2004-11-30

This Certificate is valid until:

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*The audit has been performed
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Place and date:

Stockholm, 2009-12-21

for the Accredited Unit:
DNV CERTIFICATION AB,
SWEDEN

Ann-Louise Pått
Management Representative

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