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CORRUGATED MATERIALS

ENGINEERED FOR STRENGTH.
DESIGNED FOR PERFORMANCE.



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EXPERTISE | PERFORMANCE | PARTNERSHIP

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02 | INTRODUCTION

WHAT IS CORRUGATED BOARD?

Simple engineered packaging designed for strength, protection and print performance.



OUTER LINER

Provides a smooth, printable surface for graphics, branding and protection.

FLUTING MEDIUM

The wave-shaped layer that delivers strength, rigidity and cushioning.

INNER LINER

The inner layer that adds stability, supports the fluting and protects the contents.

Thank you for downloading the Swanline Corrugated Materials Guide.

This document provides an overview of the core corrugated materials available through Swanline Group for bespoke packaging, retail display, transit packaging and presentation applications.

While this guide covers many of our most commonly supplied materials, it is not an exhaustive list.

If you need it, we can get it.

Our team can supply a huge range of flute profiles, liner combinations and specialist corrugated constructions tailored to your exact requirements.

WHY FLUTES MATTER

Different flute profiles affect:

- Print quality
- Cushioning
- Rigidity
- Stacking strength
- Overall board thickness

SMALLER FLUTES
Smoother surface and better print finish

LARGER FLUTES
Greater protection, cushioning and strength

HOW CORRUGATED BOARD WORKS

Corrugated board is made from three paper layers:

OUTER LINER
The printable outer surface

+

FLUTING MEDIUM
The wave-shaped layer that creates strength and cushioning

+

INNER LINER
The internal backing layer

Together, these layers create a material that is:

LIGHTWEIGHT | STRONG | PROTECTIVE | RECYCLABLE | VERSATILE FOR PACKAGING & DISPLAY

The fluting acts like a series of small arches, helping the board resist crushing while protecting products during storage and transit.

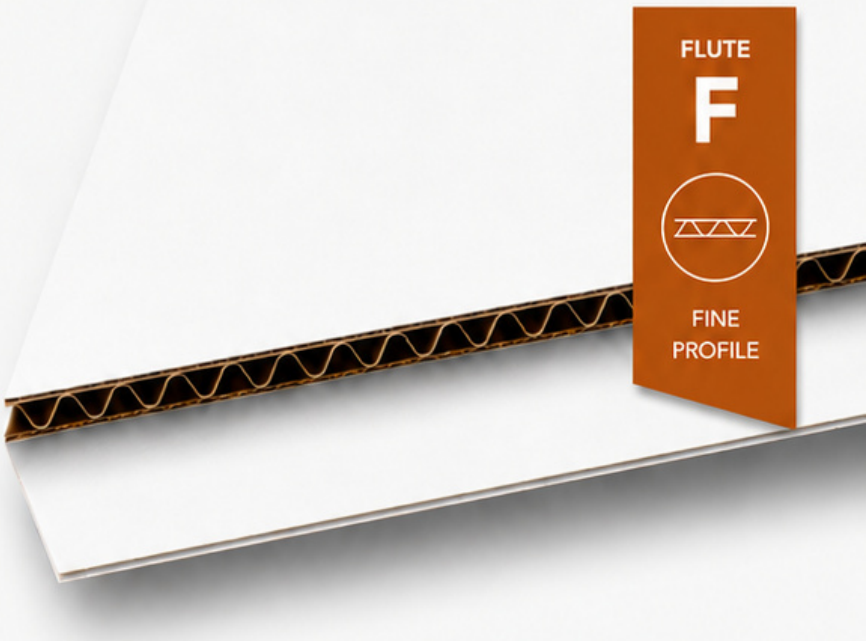
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F FLUTE



FINE PROFILE. SMOOTH FINISH.
EXCEPTIONAL PRINT QUALITY.

F Flute is a fine, thin flute profile designed to deliver outstanding print results with a smooth, high-quality surface—ideal for premium packaging, retail display and high-end printed applications.

SUPERIOR PRINT SURFACE
Smooth, consistent surface for exceptional print clarity and fine detail reproduction.

FINE & COMPACT STRUCTURE
Fine flute height (0.6 – 1.0mm) and pitch (1.8 – 2.6mm) for a thinner, more precise board construction.

IDEAL FOR PREMIUM APPLICATIONS
Perfect for high-quality printed packaging, product boxes, sleeves and retail display.

LIGHTWEIGHT & EFFICIENT
Thin profile helps reduce material usage and transport costs without compromising print quality.

BEST WHEN PRESENTATION MATTERS
Optimised for visual impact where strength and stacking are secondary.

F Flute is a fine or micro flute corrugated board consisting of two flat linerboards with a finely fluted medium in between. Its smooth surface is perfect for high-quality printing using screen, flexo or litho processes.

The finer the flute, the smoother the print.
F Flute offers premium print performance with a compact profile.

F FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)	PITCH (t)
0.6 – 1.0 mm	1.8 – 2.6 mm

Please note: Specifications may vary slightly depending on liner combinations and board construction.

EXAMPLE GRADES WE CAN SOURCE

A selection of popular F Flute constructions.
These are example grades that we have pricing available for, however we can source many other variants.
Please contact us with your requirements for a quote.

CONVENTIONAL BROWN GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
F	125	BROWN KRAFT	125	BROWN TEST	125KK / F / 125TT
F	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / F / 125TT

COATED WHITE GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
F	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / F / 150KW
F	190	WHITE CLAY COAT	190	WHITE CLAY COAT	190DC / F / 190DC

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FLUTE
G / N
MICROFLUTE PROFILE

G / N FLUTE

ULTRA-FINE PROFILE.
PREMIUM PRINT PERFORMANCE.

G / N Flute is an ultra-fine microflute corrugated board engineered for exceptional print quality, structural rigidity and premium presentation packaging.

Its high flute density and smooth surface make it ideal for:

- direct litho lamination
- high-resolution graphics
- retail-ready packaging
- luxury sleeves and cartons
- presentation packaging applications

Despite its lightweight construction, G/N flute delivers impressive stiffness and protection while maintaining a refined, high-quality appearance.



HIGH-DEFINITION PRINTING
Designed for premium lithographic print reproduction.

ULTRA-FINE STRUCTURE
Microflute profile with exceptional surface smoothness.

RETAIL PRESENTATION
Ideal for luxury cartons, sleeves and display packaging.

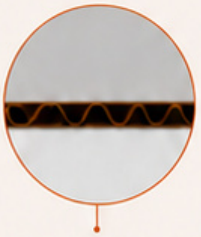
LIGHTWEIGHT PERFORMANCE
Strong structural rigidity with reduced board weight.

PREMIUM FINISH
Optimised for high-end graphics and visual presentation.

WHAT MAKES G/N DIFFERENT?
G/N flute uses a much finer flute profile than conventional corrugated board.

This creates:

- a smoother printable surface
- sharper graphics
- thinner board construction
- improved visual presentation



G/N FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)	FLUTE DENSITY
0.5 – 1.0 mm	Approx. 170 flutes per linear foot

CHARACTERISTICS

- Ultra-fine flute structure
- High rigidity
- Excellent print surface
- Lightweight construction

THE G/N FLUTE RANGE

04.1	CONVENTIONAL BROWN
04.2	UNCOATED WHITE
04.3	COATED WHITE

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FLUTE
G / N
MICROFLUTE PROFILE



G / N FLUTE

THE G/N FLUTE RANGE

04.1
CONVENTIONAL BROWN GRADES

Reliable and cost-effective brown linerboard construction, suited for a wide range of packaging applications.

STRONG & RELIABLE
Dependable structure with consistent performance.

COST-EFFECTIVE
Ideal for general purpose packaging applications.

SUSTAINABLE
Made from natural fibres and fully recyclable.

VERSATILE USE
Suitable for a broad range of products and industries.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
G / N	135	BROWN TEST	135	BROWN TEST	135TT / G / 135TT
G / N	135	BROWN TEST	125	BROWN KRAFT	135TT / G / 125KK
G / N	125	BROWN KRAFT	125	BROWN KRAFT	125KK / G / 125KK

04.2
UNCOATED WHITE GRADES

Clean, uncoated white linerboard offering a bright appearance and natural look. A cost-effective choice for everyday packaging and branding applications.

NATURAL MATTE FINISH
Uncoated surface with a natural texture for authentic branding.

GOOD PRINTABILITY
Suitable for flexo, offset and digital printing applications.

LIGHTWEIGHT & COST-EFFECTIVE
A practical solution for cost-sensitive packaging needs.

SUSTAINABLE CHOICE
Often made from recycled fibres and widely recyclable.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
G / N	125	WHITE TEST	125	BROWN KRAFT	125TW / G / 125KK
G / N	125	WHITE TEST	125	WHITE TEST	125TW / G / 125TW
G / N	125	WHITE TEST	135	WHITE KRAFT	125TW / G / 135KW
G / N	125	WHITE KRAFT	125	BROWN KRAFT	125KW / G / 125KK
G / N	135	WHITE KRAFT	135	WHITE KRAFT	135KW / G / 135KW

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FLUTE
G / N
MICROFLUTE PROFILE



G / N FLUTE

THE G/N FLUTE RANGE

04.3

COATED WHITE GRADES

Coated white linerboard delivers exceptional print performance with a smooth, bright surface designed for premium quality graphics and high-impact presentation packaging.

The clay-coated finish ensures sharp detail, vibrant colour reproduction and a high-end appearance for luxury brands.

SUPERIOR PRINT QUALITY
Smooth clay-coated surface for sharp detail and vibrant colour reproduction.

PREMIUM PRESENTATION
High white brightness and clean finish for premium retail appeal.

IDEAL FOR LITHO PRINTING
Engineered for direct litho lamination and high-resolution print results.

STRONG & CONSISTENT
Excellent rigidity and dimensional stability for reliable performance.

SUSTAINABLE CHOICE
Produced with responsibly sourced fibres and widely recyclable.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
G / N	135	WHITE CLAY COAT	125	BROWN TEST	135DC / G / 125TT
G / N	135	WHITE CLAY COAT	125	WHITE TEST	135DC / G / 125TW
G / N	135	WHITE CLAY COAT	125	WHITE KRAFT	135DC / G / 125KW
G / N	145	WHITE CLAY COAT	125	WHITE TEST	145DC / G / 125TW
G / N	180	WHITE CLAY COAT	135	BROWN TEST	180DC / G / 135TT
G / N	180	WHITE CLAY COAT	125	WHITE TEST	180DC / G / 125TW
G / N	180	WHITE CLAY COAT	135	WHITE KRAFT	180DC / G / 135KW
G / N	180	WHITE CLAY COAT	125	WHITE CLAY COAT	180DC / G / 125DC
G / N	180	WHITE CLAY COAT	180	WHITE CLAY COAT	180DC / G / 180DC
G / N	190	WHITE CLAY COAT	125	BROWN TEST	190DC / G / 125TT
G / N	190	WHITE CLAY COAT	125	WHITE TEST	190DC / G / 125TW
G / N	190	WHITE CLAY COAT	125	WHITE KRAFT	190DC / G / 125KW
G / N	190	WHITE CLAY COAT	125	BROWN KRAFT	190DC / G / 125KK
G / N	190	WHITE CLAY COAT	150	BROWN KRAFT	190DC / G / 150KK
G / N	190	WHITE CLAY COAT	150	WHITE TEST	190DC / G / 150TW
G / N	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / G / 150KW
G / N	190	WHITE CLAY COAT	180	WHITE KRAFT	190DC / G / 180KW
G / N	190	WHITE CLAY COAT	190	WHITE CLAY COAT	190DC / G / 190DC
G / N	225	WHITE CLAY COAT	225	WHITE CLAY COAT	225DC / G / 225DC

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FLUTE
E
FINE FLUTE PROFILE



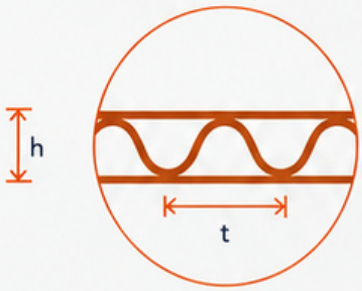
E FLUTE

FINE FLUTE. STRONG PERFORMANCE.

E Flute is a fine flute corrugated board used for corrugated cartons, combining excellent strength, printability and surface quality.

It offers superior crush resistance and compression strength compared to solid fibreboard, making it ideal for retail, display and general packaging.

E FLUTE PROFILE



Flute Height (h):
1.0 – 1.9 mm

Flute Pitch (t):
2.6 – 3.5 mm

Flute Density:
Approx. 90 flutes per linear foot

KEY CHARACTERISTICS

- Excellent crush resistance
- High compression strength
- Outstanding printability
- Smooth surface for quality graphics
- Lightweight yet strong
- Ideal for cartons, retail packaging and small format applications

EXCELLENT PRINTABILITY
Smooth surface delivers sharp detail and vibrant print results.

STRONG & RELIABLE
Superior crush resistance and compression strength for secure protection.

VERSATILE APPLICATIONS
Ideal for cartons, retail packaging, display units and small format boxes.

SUSTAINABLE CHOICE
Made from recyclable materials and designed for a circular future.

EFFICIENT PERFORMANCE
Lightweight construction optimises packaging efficiency and costs.

WHAT IS E FLUTE?

E-flute is a microflute corrugated board consisting of two smooth liners with a fine corrugated medium layer.

Its flute pitch typically ranges from 2.6 mm to 3.5 mm and the flute height from 1.0 mm to 1.9 mm.

Compared to other flute types, E-flute is thinner and finer than B-flute but coarser than F-flute, offering an ideal balance of strength, print quality and efficiency.

E FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)	FLUTE PITCH (t)	FLUTE DENSITY
1.0 – 1.9 mm	2.6 – 3.5 mm	Approx. 90 flutes per foot

IDEAL FOR

RETAIL PACKAGING · DISPLAY UNITS · CARTONS · SMALL FORMAT BOXES

THE E FLUTE RANGE

07.1 CONVENTIONAL BROWN

07.2 UNCOATED WHITE

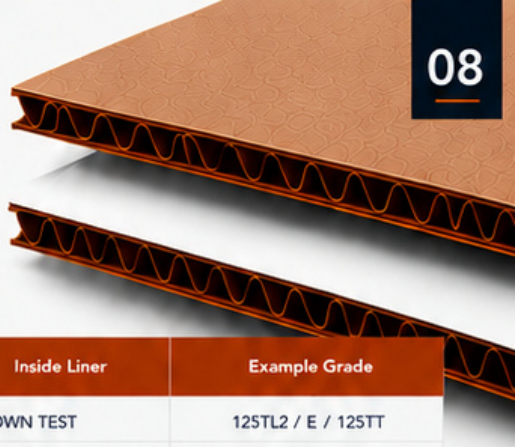
07.3 COATED WHITE

07.4 LAMINATION / MOUNTING GRADES

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07.1 CONVENTIONAL BROWN GRADES

Reliable, cost-effective and strong. Conventional brown boards are the industry standard for general purpose packaging and carton applications.

STRONG & REILABLE
Excellent strength and crush resistance for secure protection.

COST-EFFECTIVE
A dependable, economical solution for everyday packaging needs.

SUSTAINABLE CHOICE
Made from recyclable fibres and widely recovered in recycling streams.

VERSATILE USE
Ideal for a wide range of packaging and carton applications.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
E	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / E / 125TT
E	125	BROWN TEST	125	BROWN TEST	125TT / E / 125TT
E	125	BROWN TEST	125	BROWN TEST (Reinforced Fluting)	125TT / E / 125TT (RF20)
E	125	BROWN KRAFT	125	BROWN TEST	125KK / E / 125TT
E	125	BROWN KRAFT	125	BROWN KRAFT	125KK / E / 125KK
E	150	BROWN TEST	150	BROWN TEST	150TT / E / 150TT
E	150	BROWN KRAFT	150	BROWN TEST	150KK / E / 150TT
E	150	BROWN KRAFT	150	BROWN KRAFT	150KK / E / 150KK
E	200	BROWN KRAFT	200	BROWN TEST	200KK / E / 200TT
E	200	BROWN KRAFT	200	BROWN KRAFT	200KK / E / 200KK

IDEAL FOR E FLUTE (BROWN)

RETAIL & SUBSCRIPTION BOXES
Ideal for high-end, custom-printed retail packaging such as cosmetic and candle boxes.

ECOMMERCE MAILERS
Perfect for lightweight mailer boxes (under 7kg), reducing shipping costs.

POINT-OF-PURCHASE (POP) DISPLAYS
Excellent die-cutting and crisp folding for countertop displays.

ECO-FRIENDLY PACKAGING
Natural brown (Kraft) look for sustainable, organic or rustic brand appeal.

INTERNAL INLAYS & PRODUCT SEPARATION
Creates secure inserts to hold smaller, delicate products such as electronics or glass.

07.2 UNCOATED WHITE GRADES

Clean, natural and highly versatile. Uncoated white boards deliver a bright, premium look with a natural matte finish—perfect for branding and retail impact.

PREMIUM AESTHETIC & BRANDING
Bright white surface enhances colours and improves print quality.

TACTILE BRAND EXPERIENCE
Natural, uncoated texture feels authentic and high-quality.

SUPERIOR PRINTABILITY
Excellent results for digital, flexo and offset printing with a no-gloss, modern finish.

ECO-FRIENDLY & SUSTAINABLE
Made from recyclable materials or virgin fibres, designed for easy recycling.

COST-EFFECTIVE
A lighter, more economical alternative that delivers a premium image.

VERSATILE APPLICATIONS
Ideal for retail packaging, POP displays and small e-commerce mailing boxes.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
E	120	FULLY BLEACHED KRAFT	120	FULLY BLEACHED KRAFT (Bleached White Fluting)	120FBK / 120FBK / 120FBK E
E	125	WHITE TEST	125	BROWN TEST	125TW / E / 125TT
E	125	WHITE KRAFT	125	BROWN TEST	125KW / E / 125TT
E	125	WHITE KRAFT	125	WHITE KRAFT	125KW / E / 125KW
E	150	WHITE TEST	150	BROWN TEST	150TW / E / 150TT
E	150	WHITE KRAFT	150	BROWN TEST (Reinforced Fluting)	150TW / E / 150TT
E	150	WHITE KRAFT	150	BROWN KRAFT (Reinforced Fluting)	150KW / E / 150KK
E	150	WHITE KRAFT	150	BROWN TEST	150KW / E / 150KK (RF20)
E	175	WHITE KRAFT	150	WHITE TEST (Reinforced Fluting)	175KW / E / 200TT
E	175	WHITE KRAFT	200	WHITE KRAFT	175KW / E / 175KW
E	175	WHITE KRAFT	175	WHITE KRAFT	175KW / E / 180KW
E	180	WHITE KRAFT	180	WHITE KRAFT	180KW / E / 180KW
E	125	MOTTLED WHITE	125	BROWN TEST	125M / E / 125TT
E	150	MOTTLED WHITE	150	BROWN TEST	150M / E / 150TT

IDEAL FOR E FLUTE (WHITE)

PREMIUM RETAIL PACKAGING
High-quality, branded packaging that stands out on the shelf.

POP DISPLAYS
Clean white surface enhances design impact for point-of-purchase displays.

ECOMMERCE MAILERS
Ideal for small, lightweight e-commerce mailing boxes and subscription boxes.

COSMETICS, FOOD & ELECTRONICS
Perfect for premium sectors where presentation and brand experience matter.

SUSTAINABLE CHOICE
Supports eco-conscious brands with recyclable, responsibly sourced materials.

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07.3 COATED WHITE GRADES

Coated white E flute boards are engineered for high-impact graphics, premium lithographic print reproduction and retail-ready presentation packaging.

The coated clay surface delivers sharper graphics, stronger colour vibrancy, smoother print finish and enhanced visual presentation while retaining the lightweight strength and structural rigidity of E flute corrugated board.

HIGH-QUALITY PRINT FINISH
Smooth coated liner delivers excellent lithographic print reproduction.

RETAIL-READY PRESENTATION
Ideal for cartons, sleeves and premium shelf-ready packaging.

VIBRANT GRAPHICS
Enhanced colour depth and image sharpness for high-impact branding.

LIGHTWEIGHT STRUCTURE
Strong performance with reduced material weight.

PREMIUM APPEARANCE
Designed for luxury retail and customer-facing packaging applications.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
E	150	WHITE CLAY COAT	150	BROWN TEST	150DC / E / 150TT
E	150	WHITE CLAY COAT	150	WHITE TEST	150DC / E / 150TW
E	150	WHITE CLAY COAT	150	WHITE KRAFT	150DC / E / 150KW
E	160	WHITE CLAY COAT	150	WHITE KRAFT	160DC / E / 150KW (RF20)
E	180	WHITE CLAY COAT	200	BROWN TEST LINER2	180DC / E / 200TL2
E	180	WHITE CLAY COAT	150	BROWN TEST	180DC / E / 150TT
E	180	WHITE CLAY COAT	200	BROWN TEST	180DC / E / 200TT
E	180	WHITE CLAY COAT	150	BROWN KRAFT Reinforced Fluting	180DC / E / 150KK (RF20)
E	180	WHITE CLAY COAT	200	BROWN KRAFT Reinforced Fluting	180DC / E / 200KK (RF20)
E	180	WHITE CLAY COAT	150	WHITE TEST	180DC / E / 150TW
E	180	WHITE CLAY COAT	150	WHITE TEST	180DC / E / 180TW
E	180	WHITE CLAY COAT	120	WHITE KRAFT	180DC / E / 120KB
E	180	WHITE CLAY COAT	150	WHITE KRAFT	180DC / E / 150KW
E	180	WHITE CLAY COAT	175	WHITE KRAFT	180DC / E / 175KW
E	190	WHITE CLAY COAT	180	WHITE CLAY COAT	180DC / E / 180DC
E	190	WHITE CLAY COAT	150	BROWN TEST	190DC / E / 150TT
E	190	WHITE CLAY COAT	200	BROWN TEST	190DC / E / 200TT
E	190	WHITE CLAY COAT	150	WHITE TEST	190DC / E / 150TW
E	190	WHITE CLAY COAT	180	WHITE TEST	190DC / E / 180TW
E	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / E / 150KW
E	190	WHITE CLAY COAT	180	WHITE KRAFT	190DC / E / 180KW
E	190	WHITE CLAY COAT	190	WHITE CLAY COAT	190DC / E / 190DC

IDEAL FOR E FLUTE (COATED)

LUXURY RETAIL PACKAGING
High-impact printed packaging that stands out on the shelf.

COSMETICS & BEAUTY
Beautiful print finish for premium cosmetics and personal care products.

PREMIUM FOOD PACKAGING
Ideal for high-end food products and delicate packaging.

SUBSCRIPTION BOXES
Perfect for premium unboxing and branded subscription packaging.

ELECTRONICS PACKAGING
Clean, crisp printing for electronics and lifestyle tech products.

07.4 LAMINATION / MOUNTING

Lamination grade E flute boards are specifically designed for mounting printed sheets and premium lithographic applications.

Their fine flute structure creates a smooth, stable surface that minimises washboarding while maintaining lightweight rigidity and excellent crush resistance.

SMOOTH LAMINATION SURFACE
Fine flute structure reduces visible flute show-through.

HIGH-END PRINT PRESENTATION
Ideal for mounted lithographic print applications.

STRUCTURAL RIGIDITY
Strong compression performance with lightweight construction.

PREMIUM UNBOXING EXPERIENCE
Widely used in customer-facing retail and eCommerce packaging.

COST-EFFECTIVE PREMIUM PRINT

Flute Profile	Outer GSM	Outer Liner (Lamination Grade)	Inner GSM	Inside Liner	Example Grade
E	150	BROWN TEST	150	BROWN KRAFT	150TT / E / 150KK
E	150	BROWN TEST	150	WHITE TEST	150TT / E / 150TW
E	150	BROWN TEST	150	WHITE KRAFT	150TT / E / 150KW
E	150	BROWN TEST	150	WHITE KRAFT Reinforced Fluting	150TT / E / 150KW (RF20)
E	150	BROWN KRAFT	150	WHITE KRAFT	150KK / E / 150KW

IDEAL FOR LAMINATION GRADE E FLUTE

LITHO-LAMINATED BOXES
High-quality retail cartons with premium printed lithographic finishes.

POP DISPLAYS
Excellent die-cutting and folding for counter and floor displays.

PREMIUM MAILER BOXES
Lightweight and strong for eCommerce and subscription packaging.

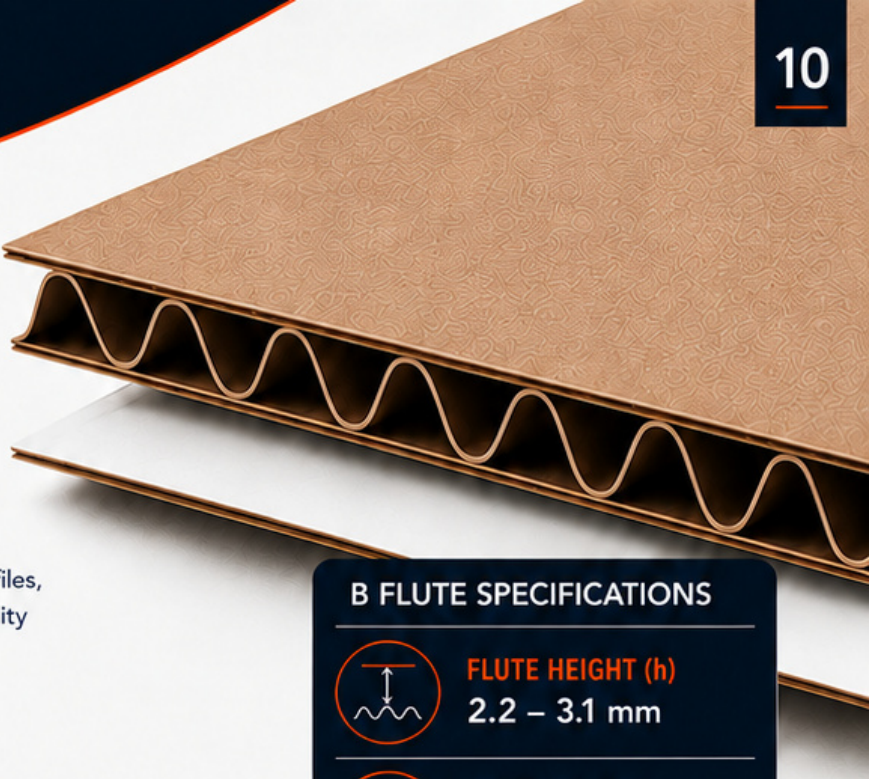
COSMETICS PACKAGING
Perfect for beauty, fragrance and high-end personal care products.

GIFT PACKAGING
Premium appearance for luxury gift boxes and presentation packaging.

SPECIALTY FOOD PACKAGING
Ideal for pizza boxes, chocolate, bakery and specialty food packaging.

B FLUTE

VERSATILE PERFORMANCE. ENGINEERED FOR EVERYDAY PACKAGING.



B flute is one of the most widely used corrugated flute profiles, offering an excellent balance of structural strength, printability and packaging versatility.

Its medium flute profile delivers:

- excellent crush resistance
- reliable stacking strength
- strong puncture resistance
- quality print performance
- excellent die-cutting capability

making it ideal for:

- retail packaging
- transit cartons
- eCommerce packaging
- shelf-ready packaging
- display applications

B FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)
2.2 – 3.1 mm

FLUTE PITCH (t)
4.8 – 6.5 mm

FLUTE DENSITY
Approx. 47 flutes per linear foot

HIGH CRUSH RESISTANCE

Reliable structural integrity and stacking performance.

VERSATILE PERFORMANCE

Suitable for both protective and presentation packaging.

GOOD PRINT SURFACE

Flatter profile supports quality graphics across multiple methods.

DIE-CUT PRECISION

Excellent for custom cartons, inserts and folding structures.

LIGHTWEIGHT STRENGTH

Dependable protection without unnecessary material weight.

IDEAL FOR:

- SHIPPING CARTONS
- RETAIL PACKAGING
- ECOMMERCE MAILERS
- SHELF-READY PACKAGING
- POP DISPLAYS
- PRODUCT PROTECTION

10.1 CONVENTIONAL BROWN GRADES

10.2 UNCOATED WHITE GRADES

10.3 COATED WHITE GRADES

10.4 LAMINATION / MOUNTING GRADES

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10.1 CONVENTIONAL BROWN GRADES

Strong, reliable and cost-effective performance for everyday packaging applications. Conventional brown B flute boards deliver excellent crush resistance, stacking strength and protection for a wide range of transit and retail requirements.

IDEAL FOR:

- SHIPPING CARTONS
- TRANSIT PACKAGING
- ECOMMERCE BOXES
- PRODUCT PROTECTION
- SHELF-READY PACKAGING

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
B	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / B / 125TT
B	125	BROWN TEST	125	BROWN TEST	125TT / B / 125TT
B	125	BROWN KRAFT	125	BROWN TEST	125KK / B / 125TT
B	125	BROWN KRAFT	125	BROWN KRAFT	125KK / B / 125KK
B	150	BROWN TEST LINER2	150	BROWN TEST	150TL2 / B / 150TT
B	150	BROWN TEST LINER2	150	BROWN TEST REINFORCED	150TL2 / B / 150TT (RF20)
B	150	BROWN TEST	150	BROWN TEST	150TT / B / 150TT
B	150	BROWN KRAFT	150	BROWN TEST	150KK / B / 150TT
B	150	BROWN KRAFT	150	BROWN TEST REINFORCED	150KK / B / 150TT (RF20)
B	150	BROWN KRAFT	150	BROWN KRAFT	150KK / B / 150KK
B	200	BROWN TEST LINER2	200	BROWN TEST	200TL2 / B / 200TT
B	200	BROWN TEST	200	BROWN TEST	200TT / B / 200TT
B	200	BROWN KRAFT	200	BROWN TEST	200KK / B / 200TT
B	200	BROWN KRAFT	200	BROWN TEST REINFORCED	200KK / B / 200TT (RF10)
B	200	BROWN KRAFT	200	BROWN TEST REINFORCED	200KK / B / 200TT (RF20)
B	200	BROWN KRAFT	200	BROWN TEST REINFORCED	200KK / B / 200TT (RF30)
B	200	BROWN KRAFT	200	BROWN KRAFT	200KK / B / 200KK
B	300	BROWN KRAFT	300	BROWN TEST	300KK / B / 300TT
B	300	BROWN KRAFT	300	BROWN KRAFT	300KK / B / 300KK

10.2 UNCOATED WHITE GRADES

Uncoated white B flute boards deliver strong structural performance with a clean, natural appearance. Ideal for versatile printing applications, these boards offer a premium "natural" feel and great value.

KEY BENEFITS:

VERSATILE PRINTING
Excellent for digital, flexo and offset printing.

PREMIUM "NATURAL" FEEL
Mottled white liner offers an off-white, natural appearance with a subtle texture.

GREAT SHELF PRESENCE
Clean, natural look that enhances branding and product appeal.

STRONG & RELIABLE
Excellent crush resistance and stacking performance.

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
B	125	WHITE TEST	125	BROWN TEST	125TW / B / 125TT
B	125	WHITE TEST	125	BROWN TEST REINFORCED	125TW / B / 125TT (RF20)
B	125	WHITE KRAFT	125	BROWN TEST	125KW / B / 125TT
B	125	WHITE KRAFT	125	BROWN TEST REINFORCED	125KW / B / 125TT (RF20)
B	125	WHITE KRAFT	125	WHITE KRAFT	125KW / B / 125KW
B	150	WHITE TEST	150	BROWN TEST	150TW / B / 150TT
B	150	WHITE TEST	150	WHITE TEST REINFORCED	150TW / B / 150TW (RF20)
B	150	WHITE TEST	150	WHITE TEST REINFORCED	150TW / B / 150TW (RF30)
B	150	WHITE KRAFT	150	BROWN TEST	150KW / B / 150TT
B	150	WHITE KRAFT	150	WHITE TEST REINFORCED	150KW / B / 150TT (RF20)
B	150	WHITE KRAFT	150	BROWN TEST REINFORCED	150KW / B / 150TT (RF30)
B	150	WHITE KRAFT	150	WHITE KRAFT	150KW / B / 150KW
B	175	WHITE KRAFT	200	BROWN TEST	175KW / B / 200TT
B	175	WHITE KRAFT	200	BROWN TEST REINFORCED	175KW / B / 200TT (RF20)
B	175	WHITE KRAFT	200	BROWN TEST REINFORCED	175KW / B / 200TT (RF30)
B	175	WHITE KRAFT	200	WHITE KRAFT REINFORCED	175KW / B / 200KK (RF20)
B	175	WHITE KRAFT	175	WHITE KRAFT	175KW / B / 175KW
B	180	WHITE KRAFT	200	BROWN TEST	180KW / B / 200TT
B	180	WHITE KRAFT	200	BROWN TEST REINFORCED	180KW / B / 200TT (RF30)
B	180	WHITE KRAFT	180	WHITE KRAFT	180KW / B / 180KW
B	125	MOTTLED WHITE	125	BROWN TEST	125M / B / 125TT
B	150	MOTTLED WHITE	150	BROWN TEST	150M / B / 150TT
B	200	MOTTLED WHITE	200	BROWN TEST	200M / B / 200TT



10.3 COATED WHITE GRADES

HIGH-IMPACT PRINT PERFORMANCE

Coated white B flute combines strong structural performance with a smooth clay-coated print surface designed for high-quality graphics and retail-ready presentation packaging.

The coated outer liner delivers:

- stronger colour vibrancy
- sharper graphics
- improved visual impact
- excellent lithographic print reproduction

while maintaining the durability and crush resistance expected from B flute corrugated board.

KEY BENEFITS:

ENHANCED PRINT QUALITY
Smooth coated liner for high-impact graphics and branding.

RETAIL-READY PRESENTATION
Excellent for customer-facing packaging applications.

STRUCTURAL PERFORMANCE
Strong crush resistance with dependable transit performance.

PREMIUM VISUAL IMPACT
Improved colour depth and cleaner print reproduction.

VERSATILE PACKAGING APPLICATIONS
Suitable for retail, display and eCommerce packaging.

Coated White Grades

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner		Example Grade
B	150	WHITE CLAY COAT	150	BROWN TEST		150DC / B / 150TT
B	150	WHITE CLAY COAT	150	BROWN TEST	REINFORCED	150DC / B / 150TT (RF20)
B	150	WHITE CLAY COAT	150	WHITE TEST		150DC / B / 150TW
B	150	WHITE CLAY COAT	150	WHITE KRAFT		150DC / B / 150KW
B	160	WHITE CLAY COAT	200	BROWN TEST		160DC / B / 200TT
B	180	WHITE CLAY COAT	150	BROWN TEST		180DC / B / 150TT
B	180	WHITE CLAY COAT	150	BROWN KRAFT		180DC / B / 150KK
B	180	WHITE CLAY COAT	150	WHITE TEST		180DC / B / 150TW
B	180	WHITE CLAY COAT	150	WHITE TEST	REINFORCED	180DC / B / 150TW (RF20)
B	180	WHITE CLAY COAT	120	WHITE KRAFT		180DC / B / 120KB
B	180	WHITE CLAY COAT	150	WHITE KRAFT		180DC / B / 150KW
B	180	WHITE CLAY COAT	175	WHITE KRAFT		180DC / B / 175KW
B	180	WHITE CLAY COAT	175	WHITE KRAFT	REINFORCED+	180DC / B / 175KW (RF30)
B	180	WHITE CLAY COAT	180	WHITE TEST		180DC / B / 180TW
B	180	WHITE CLAY COAT	180	WHITE KRAFT		180DC / B / 180KW
B	180	WHITE CLAY COAT	200	BROWN TEST		180DC / B / 200TT
B	180	WHITE CLAY COAT	200	BROWN TEST	REINFORCED	180DC / B / 200TT (RF20)
B	190	WHITE CLAY COAT	150	BROWN TEST		190DC / B / 150TT
B	190	WHITE CLAY COAT	150	WHITE TEST		190DC / B / 150TW
B	190	WHITE CLAY COAT	150	WHITE KRAFT		190DC / B / 150KW
B	190	WHITE CLAY COAT	180	WHITE TEST		190DC / B / 180TW
B	190	WHITE CLAY COAT	180	WHITE KRAFT		190DC / B / 180KW
B	190	WHITE CLAY COAT	200	BROWN TEST		190DC / B / 200TT

10.4 LAMINATION / MOUNTING GRADES

ENGINEERED FOR LITHO LAMINATION

Lamination grade B flute boards are designed specifically for mounted print applications requiring strong structural rigidity and a smooth presentation surface.

The B flute profile provides:

- excellent stiffness
- superior crush resistance
- strong transit performance
- improved rigidity for larger display applications

making it ideal for:

- litho-laminated cartons
- retail displays
- presentation packaging
- eCommerce packaging
- premium printed transit boxes

Lamination/Mounting Grades

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
B	150	BROWN TEST	150	BROWN KRAFT	150TT / B / 150KK
B	150	BROWN TEST	150	WHITE TEST	150TT / B / 150TW
B	150	BROWN TEST	150	WHITE KRAFT	150TT / B / 150KW
B	150	BROWN KRAFT	150	WHITE KRAFT	150KK / B / 150KW

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R® / M FLUTE

SMARTER PERFORMANCE. LESS MATERIAL. MORE EFFICIENCY.

R / M flute is an advanced fine-flute corrugated profile engineered to deliver strong packaging performance with reduced board thickness and improved logistical efficiency.

Its tighter flute pitch and slimmer profile provide:

- excellent print surfaces
- strong rigidity
- improved pallet efficiency
- reduced storage requirements
- lower transport impact

while maintaining dependable packaging performance.

R / M FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)
2.0 – 2.5 mm

FLUTE PITCH (t)
Tighter micro-pitch profile

FLUTE DENSITY
Approx. 30% more flutes than standard B flute

KEY BENEFITS

IMPROVED PALLET EFFICIENCY
More sheets and cartons per pallet.

REDUCED STORAGE SPACE
Slimmer board profile improves warehousing efficiency.

HIGH-QUALITY PRINT SURFACE
Flatter surface improves graphics and presentation.

LIGHTWEIGHT PERFORMANCE
Reduced material usage without compromising strength.

SUSTAINABILITY BENEFITS
Lower transport weight and improved logistics efficiency.

APPLICATIONS

Perfect for:

- RETAIL PACKAGING
- SHELF-READY PACKAGING
- PREMIUM ECOMMERCE
- SUBSCRIPTION BOXES
- BRANDED TRANSIT PACKAGING
- DISPLAY APPLICATIONS

WHAT YOU NEED TO KNOW

R-Flute® is the profile developed by DS Smith.

M flute is a very similar fine-flute profile produced by other mills.

Both R and M flute feature a smaller pitch (approximately 2.0 – 2.5 mm flute height) and around 30% more flutes per linear measurement compared to standard B flute (3.0 mm).

Compared to B flute, R / M flute delivers:

- a flatter, smoother print surface for superior graphics and presentation
- excellent strength and rigidity in a thinner profile
- more sheets per pallet and more cartons per load
- reduced storage space, transport costs and carbon impact

This makes R / M flute an ideal choice for brands looking to improve efficiency, enhance sustainability and maintain high performance – — without compromise.

13.1 CONVENTIONAL BROWN GRADES



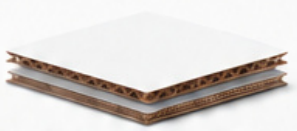
Strong, reliable brown grades offering excellent performance for a wide range of general packaging and transit applications.

13.2 UNCOATED WHITE GRADES



Versatile uncoated white grades providing natural appearance and great print results for a variety of packaging needs.

13.3 COATED WHITE GRADES



Premium coated white grades delivering exceptional print quality and high-impact presentation for retail packaging.

13.4 LAMINATION GRADES

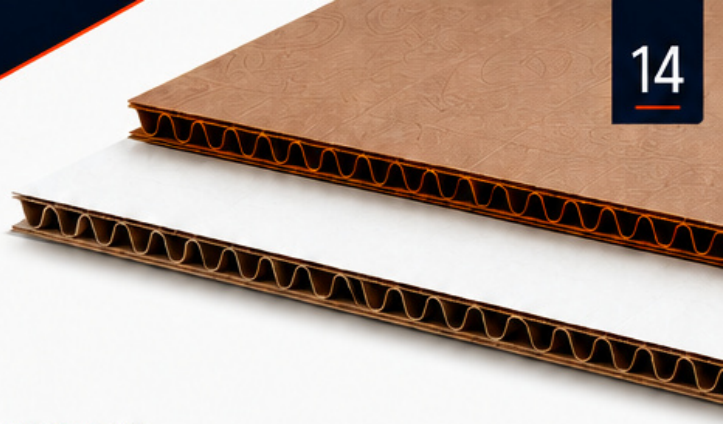


Engineered for litho lamination and mounting applications requiring strong rigidity and smooth presentation surfaces.

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13.1 CONVENTIONAL BROWN GRADES

Reliable all-round corrugated performance with excellent structural strength and dependable transit protection.

KEY BENEFITS

STRONG & RELIABLE
High structural strength for secure protection.

CONSISTENT PERFORMANCE
Dependable quality across a wide range of applications.

COST-EFFECTIVE SOLUTION
Efficient performance for general packaging requirements.

TRANSIT & STORAGE READY
Built to perform in distribution and storage environments.

CONVENTIONAL BROWN GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
R / M	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / R / 125TT
R / M	125	BROWN TEST	125	BROWN TEST	125TT / R / 125TT
R / M	125	BROWN KRAFT	125	BROWN TEST	125KK / R / 125TT
R / M	150	BROWN TEST LINER2	150	BROWN TEST	150TL2 / R / 150TT
R / M	150	BROWN TEST	150	BROWN TEST	150TT / R / 150TT
R / M	150	BROWN KRAFT	150	BROWN TEST	150KK / R / 150TT
R / M	200	BROWN TEST LINER2	200	BROWN TEST	200TL2 / R / 200TT
R / M	200	BROWN KRAFT	200	BROWN TEST	200KK / R / 200TT

IDEAL APPLICATIONS

SHIPPING CARTONS | ECOMMERCE TRANSIT BOXES | INDUSTRIAL PACKAGING | SHELF-READY PACKAGING | INTERNAL FITMENTS | PROTECTIVE PACKAGING

13.2 UNCOATED WHITE GRADES

Uncoated white R / M flute grades provide a cleaner printable surface while maintaining the lightweight performance and logistical efficiency benefits of the R / M flute profile.

KEY BENEFITS

NATURAL FINISH
Matte printable surface with a clean, modern appearance.

PRINT VERSATILITY
Suitable for digital, flexo and offset print applications.

LIGHTWEIGHT PERFORMANCE
Slim profile improves logistics and storage efficiency.

SUSTAINABLE PRESENTATION
Natural aesthetic ideal for environmentally conscious brands.

RETAIL & ECOMMERCE READY
Excellent balance of presentation and protection.

UNCOATED WHITE GRADES

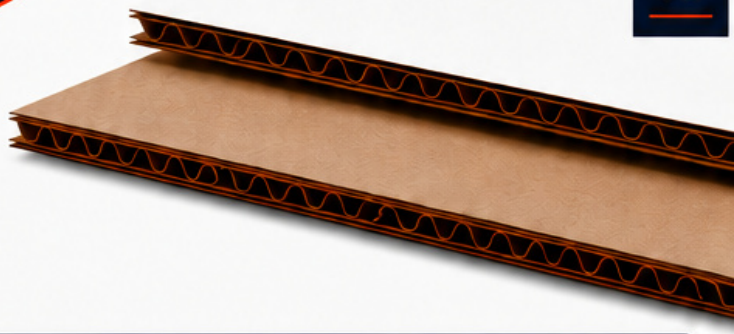
Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
R / M	125	WHITE TEST	125	BROWN TEST	125TW / R / 125TT
R / M	125	WHITE KRAFT	125	BROWN TEST	125KW / R / 125TT
R / M	150	WHITE TEST	150	BROWN TEST	150TW / R / 150TT
R / M	150	WHITE KRAFT	150	BROWN TEST	150KW / R / 150TT
R / M	125	MOTTLED WHITE	125	BROWN TEST	125M / R / 125TT
R / M	150	MOTTLED WHITE	150	BROWN TEST	150M / R / 150TT

MOTTLED WHITE OPTIONS

A practical uncoated white alternative offering a softer natural appearance with excellent print versatility and strong packaging performance.

IDEAL APPLICATIONS

RETAIL PACKAGING | SHELF-READY PACKAGING | ECOMMERCE PACKAGING | SUBSCRIPTION BOXES | DISPLAY APPLICATIONS | BRANDED TRANSIT PACKAGING



13.3 COATED WHITE GRADES

Coated white R / M flute boards are engineered for high-impact graphics and premium print applications.

KEY BENEFITS

HIGH-DEFINITION PRINT SURFACE
White clay coated liner ensures excellent print clarity and colour reproduction.

REINFORCED PERFORMANCE
Reinforced fluting options provide added structural strength for demanding applications.

CONSISTENT QUALITY
Engineered for reliable performance across a wide range of packaging needs.

PREMIUM PRESENTATION
Ideal for premium shelf impact and high-visibility branding.

LIGHTWEIGHT EFFICIENCY
R / M flute profile delivers lightweight strength and improved logistical efficiency.

COATED WHITE GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
R / M	150	WHITE CLAY COAT	150	BROWN TEST	150DC / R / 150TT
R / M	150	WHITE CLAY COAT	150	BROWN TEST	Reinforced Fluting 150DC / R / 150TT (RF20)
R / M	150	WHITE CLAY COAT	150	WHITE TEST	Reinforced Fluting 150DC / R / 150TW (RF20)
R / M	150	WHITE CLAY COAT	150	WHITE KRAFT	150DC / R / 150KW
R / M	160	WHITE CLAY COAT	150	BROWN TEST	160DC / R / 150TT
R / M	160	WHITE CLAY COAT	150	BROWN TEST	Reinforced Fluting 160DC / R / 150TT (RF20)
R / M	160	WHITE CLAY COAT	150	BROWN KRAFT	160DC / R / 150KK
R / M	160	WHITE CLAY COAT	150	WHITE TEST	160DC / R / 150TW
R / M	180	WHITE CLAY COAT	150	WHITE TEST	Reinforced Fluting 180DC / R / 150TW (RF20)
R / M	180	WHITE CLAY COAT	180	WHITE KRAFT	180DC / R / 180KW
R / M	180	WHITE CLAY COAT	200	BROWN TEST	180DC / R / 200TT

IDEAL APPLICATIONS

RETAIL PACKAGING | SHELF-READY PACKAGING | POP DISPLAYS | PREMIUM MAILER BOXES | GIFT PACKAGING | SPECIALTY FOOD PACKAGING

13.4 LAMINATION / MOUNTING GRADES

Lamination grade R / M flute boards are designed for mounting printed sheets and premium lithographic applications.

KEY BENEFITS

SMOOTH LAMINATION SURFACE
Provides a stable base for mounting and lamination applications.

EXCELLENT PRINT RESULTS
Optimised for lithographic and high-end graphic applications.

STRUCTURAL STABILITY
Fine flute construction offers rigidity and a high-quality finish.

BRIGHT & PROFESSIONAL
Ideal for premium brand and retail presentation.

COST-EFFECTIVE SOLUTION
Delivers premium results without the need for solid board.

LAMINATION GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
R / M	125	BROWN TEST	125	WHITE KRAFT	125TT / R / 125KW
R / M	150	BROWN TEST	150	WHITE KRAFT	150TT / R / 150KW

IDEAL APPLICATIONS

MOUNTED PRINTS | RETAIL DISPLAYS | PRESENTATION PACKAGING | CATALOGUES & BROCHURES | POINT-OF-SALE MATERIALS



C FLUTE

RELIABLE STRENGTH. STACKING PERFORMANCE. DEPENDABLE PROTECTION.

C flute is one of the most widely used corrugated flute profiles for transit and general packaging applications.

Its larger flute structure delivers:

- excellent compression strength
- strong stacking performance
- dependable cushioning
- reliable transit protection

making it ideal for:

- shipping cartons
- warehouse packaging
- industrial packaging
- eCommerce transit boxes
- protective packaging applications

C FLUTE SPECIFICATIONS

FLUTE HEIGHT (h)
3.5 – 4.0 mm

FLUTE PITCH (t)
6.8 – 8.0 mm

FLUTE DENSITY
Approx. 39 flutes per linear foot

BOARD THICKNESS
4.5 – 5.0 mm (approx.)

KEY BENEFITS

STRONG STACKING PERFORMANCE
Excellent compression strength for warehousing and transit.

DEPENDABLE CUSHIONING
Larger flute profile helps absorb impacts during handling.

GENERAL PACKAGING PERFORMANCE
Versatile solution for a wide range of packaging applications.

TRANSIT PROTECTION
Designed for reliable shipping and logistics performance.

COST-EFFECTIVE STRENGTH
Efficient balance of protection, rigidity and material usage.

C flute is engineered for dependable performance across a wide range of standard packaging applications. Best suited to applications where strong stacking performance and transit protection are prioritised.

16.1 CONVENTIONAL BROWN GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
C	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / C / 125TT
C	125	BROWN KRAFT	125	BROWN TEST	125KK / C / 125TT
C	150	BROWN TEST LINER2	150	BROWN TEST	150TL2 / C / 150TT
C	150	BROWN TEST	150	BROWN TEST	150TT / C / 150TT
C	150	BROWN TEFT	150	BROWN TEST (Reinforced Fluting)	150TT / C / 150TT (RF20)
C	150	BROWN KRAFT	150	BROWN TEST	150KK / C / 150TT
C	150	BROWN KRAFT	150	BROWN KRAFT	150KK / C / 150KK
C	150	BROWN KRAFT	150	BROWN TEST (Reinforced Fluting)	150KK / C / 150TT (RF20)
C	200	BROWN TEST LINER2	200	BROWN TEST	200TL2 / C / 200TT
C	200	BROWN TEST	200	BROWN TEST	200TT / C / 200TT
C	200	BROWN KRAFT	200	BROWN TEST	200KK / C / 200TT
C	200	BROWN KRAFT	200	BROWN TEST (Reinforced Fluting)	200KK / C / 200TT (RF20)
C	200	BROWN KRAFT	200	BROWN KRAFT (Reinforced Fluting)	200KK / C / 200TT (RF30)
C	300	BROWN KRAFT	300	BROWN TEST	300KK / C / 300TT
C	300	BROWN KRAFT	300	BROWN KRAFT	300KK / C / 300KK

16.2 UNCOATED WHITE GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
C	150	WHITE KRAFT	150	BROWN TEST	150KW / C / 150TT
C	180	WHITE KRAFT	200	BROWN TEST	180KW / C / 200TT
C	125	MOTTLED WHITE	125	BROWN TEST	125M / C / 125TT
C	150	MOTTLED WHITE	150	BROWN TEST	150M / C / 150TT
C	200	MOTTLED WHITE	200	BROWN TEST	200M / C / 200TT

IDEAL APPLICATIONS

SHIPPING CARTONS | WAREHOUSE PACKAGING | INDUSTRIAL PACKAGING | ECOMMERCE TRANSIT BOXES | PROTECTIVE PACKAGING

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NE FLUTE

MICROFLUTE PRECISION. PREMIUM PRINT. EXCEPTIONAL STRENGTH.

NE flute is a micro-flute (N) and fine-flute (E) double-wall combination, designed to deliver premium print quality and exceptional rigidity in a lightweight board.

Ideal for high-impact packaging and point-of-sale applications.

- eliminates flute shadow for flawless print results
- superior surface for litho and digital printing
- rigid construction with excellent crush resistance
- precise and elegant converting performance
- lightweight board with outstanding strength

NE FLUTE SPECIFICATIONS

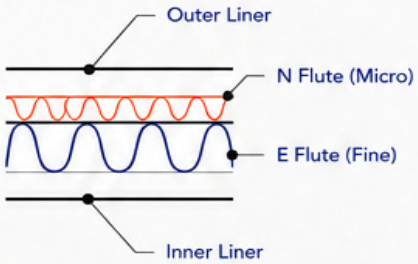
NE FLUTE HEIGHT (combined)
1.8 – 2.1 mm

E FLUTE PITCH
2.6 – 3.5 mm

N FLUTE PITCH
1.6 – 1.9 mm

BOARD THICKNESS
1.8 – 2.1 mm (approx.)

FLUTE STRUCTURE



The N flute (micro) provides a smooth surface for the outer liner, eliminating flute shadow and enhancing print clarity. The E flute (fine) delivers strength and crush resistance.

FLUTE PROFILE DIMENSIONS

Flute Type	Nominal Height (excluding liners)	Flute Pitch	Key Benefits
N Flute (Micro)	~0.50 mm	1.6 – 1.9 mm	Ultra-fine flute supports outer liner and eliminates flute shadow.
E Flute (Fine)	~1.1 – 1.8 mm	2.6 – 3.5 mm	Excellent crush resistance and premium print surface.
NE Flute (Combined)	~1.8 – 2.1 mm	—	High structural strength and flawless graphic reproduction.

IDEAL APPLICATIONS

RETAIL DISPLAY PACKAGING · PREMIUM PRODUCT PACKAGING · COSMETICS & BEAUTY PACKAGING · ELECTRONICS PACKAGING · LUXURY GIFT PACKAGING · FOOD & BEVERAGE

17.1 COATED WHITE GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
NE	150	WHITE CLAY COAT	150	BROWN TEST	150DC / NE / 150TT
NE	180	WHITE CLAY COAT	180	WHITE KRAFT	180DC / NE / 180KW
NE	190	WHITE CLAY COAT	150	WHITE TEST	190DC / NE / 150TW
NE	190	WHITE CLAY COAT	150	BROWN TEST	190DC / NE / 150TT
NE	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / NE / 150KW
NE	190	WHITE CLAY COAT	180	WHITE TEST	190DC / NE / 180TW
NE	190	WHITE CLAY COAT	180	WHITE KRAFT	190DC / NE / 180KW
NE	190	WHITE CLAY COAT	190	WHITE CLAY COAT	190DC / NE / 190DC
NE	190	WHITE CLAY COAT	200	BROWN TEST	190DC / NE / 200TT

EE FLUTE



PREMIUM RIGIDITY. REFINED PRINT PERFORMANCE.

EE flute combines two layers of fine E flute to create a highly rigid, lightweight double-wall corrugated structure.

The result is a premium board profile offering:

- excellent crush resistance
- enhanced rigidity
- smooth print surfaces
- reduced flute shadow
- superior structural presentation

making EE flute ideal for:

- luxury retail packaging
- premium eCommerce mailers
- presentation boxes
- display packaging
- rigid transit cartons

EE FLUTE SPECIFICATIONS

TOTAL BOARD HEIGHT
Approx. 2.2 – 3.0 mm

E FLUTE HEIGHT (h)
1.0 – 1.9 mm

E FLUTE PITCH (t)
2.6 – 3.5 mm

FLUTE DENSITY
Approx. 90 flutes per linear foot (per E layer)

KEY BENEFITS

EXCELLENT PRINT SURFACE
Smooth profile reduces flute shadow during litho and digital print.

PREMIUM STRUCTURAL PERFORMANCE
Rigid board feel with lightweight construction.

HIGH-END PRESENTATION
Ideal for luxury retail and premium packaging applications.

STRONG EDGE CRUSH PERFORMANCE
Improved stacking and handling performance versus single-wall microflutes.

LIGHTWEIGHT & RIGID
High rigidity with a lightweight profile for efficient packaging solutions.

IDEAL APPLICATIONS

LUXURY RETAIL PACKAGING | PREMIUM COSMETICS | RIGID GIFT PACKAGING | ELECTRONICS PACKAGING | SUBSCRIPTION PACKAGING | PREMIUM PRESENTATION CARTONS

18.1 CONVENTIONAL BROWN GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EE	150	BROWN TEST	150	BROWN TEST	150TT / EE / 150TT
EE	150	BROWN KRAFT	150	BROWN TEST	150KK / EE / 150TT

18.2 COATED WHITE GRADES

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EE	180	WHITE CLAY COAT	200	BROWN KRAFT	180DC / EE / 200KK
EE	180	WHITE CLAY COAT	120	WHITE KRAFT	180DC / EE / 120KB
EE	180	WHITE CLAY COAT	150	WHITE KRAFT	180DC / EE / 150KW
EE	180	WHITE CLAY COAT	175	WHITE KRAFT	180DC / EE / 175KW
EE	180	WHITE CLAY COAT	180	WHITE CLAY COAT	180DC / EE / 180DC
EE	190	WHITE CLAY COAT	150	BROWN TEST	190DC / EE / 150TT
EE	190	WHITE CLAY COAT	150	WHITE TEST	190DC / EE / 150TW
EE	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / EE / 150KW
EE	190	WHITE CLAY COAT	180	WHITE KRAFT	190DC / EE / 180KW
EE	190	WHITE CLAY COAT	190	WHITE CLAY COAT	190DC / EE / 190DC
EE	190	WHITE CLAY COAT	200	BROWN TEST	190DC / EE / 200TT

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EB FLUTE

DOUBLE-WALL STRENGTH. PREMIUM PRINT PERFORMANCE.

EB flute combines the smooth print surface of E flute with the structural strength and stacking performance of B flute.

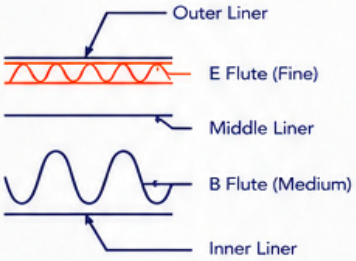
This advanced double-wall profile delivers:

- exceptional rigidity
- high crush resistance
- premium printability
- strong stacking performance
- efficient storage and transport performance

making it ideal for:

- premium transit packaging
- subscription boxes
- electronics packaging
- automotive components
- fragile retail products
- luxury eCommerce packaging

THE EB STRUCTURE



The combination of E and B flute provides excellent strength, stackability and a smooth surface for premium printing.

EB FLUTE SPECIFICATIONS

TOTAL BOARD HEIGHT
Approx. 4.0 – 4.5 mm

E FLUTE HEIGHT (h)
1.0 – 1.9 mm

B FLUTE HEIGHT (h)
2.2 – 3.1 mm

FLUTE PITCH (t)
Dual micro + medium flute structure

LOAD PERFORMANCE
Suitable for applications up to approx. 30kg

KEY BENEFITS

PREMIUM PRINT SURFACE
Fine E flute layer delivers smooth, high-resolution graphics.

HEAVY-DUTY PERFORMANCE
B flute layer provides excellent crush resistance and rigidity.

STRONG STACKING PERFORMANCE
Excellent compression strength for transit and warehousing.

SPACE-EFFICIENT DOUBLE WALL
Provides BC-style performance with reduced storage volume.

HIGH-END TRANSIT PRESENTATION
Combines retail-ready appearance with industrial protection.

WHAT MAKES EB DIFFERENT?

Compared to traditional BC double wall:

- thinner overall board profile
- improved print surface
- reduced storage requirements
- lighter packaging weight
- strong structural performance

This makes EB flute ideal where both presentation and protection matter equally.

IDEAL APPLICATIONS

CONSUMER ELECTRONICS
Small appliances, gaming consoles and accessories

SUBSCRIPTION BOXES
Monthly kits and eCommerce subscriptions

AUTOMOTIVE COMPONENTS
Parts, spares and industrial components

GLASSWARE & HEAVY CERAMICS
Fragile products requiring superior protection

LUXURY ECOMMERCE PACKAGING
Retail presentation with heavy-duty performance

19.1 CONVENTIONAL BROWN GRADES

- ✓ Strong and reliable protection
- ✓ Excellent stackability
- ✓ Cost-effective performance
- ✓ Ideal for transit applications

19.2 UNCOATED WHITE GRADES

- ✓ Bright natural appearance
- ✓ Smooth print surface
- ✓ Reinforced fluting options
- ✓ Versatile and recyclable

19.3 COATED WHITE GRADES

- ✓ Premium white print surface
- ✓ High graphic reproduction
- ✓ Retail-ready presentation
- ✓ Ideal for high-impact branding

19.4 LAMINATION / MOUNTING GRADES

- ✓ For lamination and mounting
- ✓ Excellent dimensional stability
- ✓ Ideal for POS and displays
- ✓ Clean, smooth finish

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EB FLUTE

DOUBLE-WALL STRENGTH.
PREMIUM PRINT PERFORMANCE.



19.1 CONVENTIONAL BROWN GRADES

STRONG & REILABLE
Excellent strength and crush resistance

COST-EFFECTIVE
High performance at an economical board profile

IDEAL FOR TRANSIT
Built for heavy-duty shipping and stacking

SUSTAINABLE CHOICE
Made from recyclable fibres and widely recovered

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EB	125	BROWN TEST LINER2	125	BROWN TEST	125TL2 / EB / 125TT
EB	125	BROWN KRAFT	125	BROWN TEST	125KK / EB / 125TT
EB	150	BROWN TEST LINER2	150	BROWN TEST	150TL2 / EB / 150TT
EB	150	BROWN TEST	150	BROWN TEST	150TT / EB / 150TT
EB	150	BROWN KRAFT	150	BROWN TEST	150KK / EB / 150TT
EB	150	BROWN KRAFT	150	BROWN KRAFT	150KK / EB / 150KK
EB	150	BROWN KRAFT	150	BROWN KRAFT	150KK / EB / 150KK (RF20) Reinforced Fluting
EB	200	BROWN TEST LINER2	200	BROWN TEST	200TL2 / EB / 200TT
EB	200	BROWN KRAFT	200	BROWN TEST	200KK / EB / 200TT
EB	200	BROWN KRAFT	200	BROWN KRAFT	200KK / EB / 200KK

19.2 UNCOATED WHITE GRADES

PREMIUM APPEARANCE
Natural white appearance with a smooth matte finish

EXCELLENT PRINT SURFACE
Smooth matte surface suitable for quality printing

STRONG & DURABLE
Reinforced options for added strength

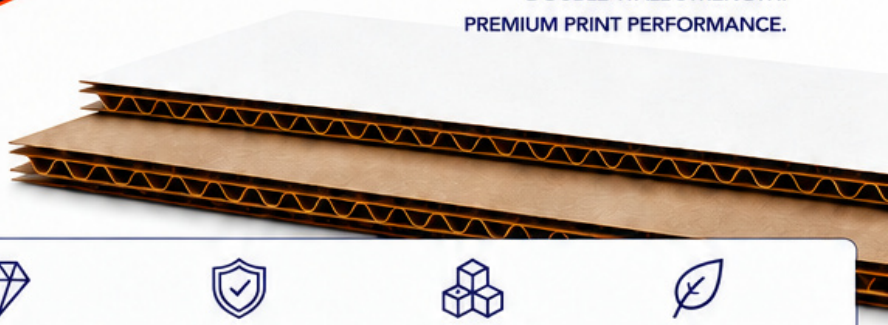
SUSTAINABLE CHOICE
Recyclable and responsibly sourced

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EB	120	FULLY BLEACHED KRAFT	120	FULLY BLEACHED KRAFT	120FBK/120FBK/120FBK
EB	125	WHITE KRAFT	125	BROWN TEST	125KW / EB / 125TT
EB	150	WHITE TEST	150	BROWN TEST	150TW / EB / 150TT
EB	150	WHITE KRAFT	150	BROWN TEST	150KW / EB / 150TT
EB	150	WHITE KRAFT	150	BROWN TEST	150KW / EB / 150TT (RF20) Reinforced Fluting
EB	150	WHITE KRAFT	150	BROWN KRAFT	150KW / EB / 150KK (RF20) Reinforced Fluting
EB	150	WHITE KRAFT	150	WHITE KRAFT	150KW / EB / 150KW
EB	175	WHITE KRAFT	200	BROWN TEST	175KW / EB / 200TT
EB	175	WHITE KRAFT	200	BROWN KRAFT	175KW / EB / 200KK
EB	175	WHITE KRAFT	175	WHITE KRAFT	175KW / EB / 175KW
EB	180	WHITE KRAFT	200	BROWN TEST	180KW / EB / 200TT
EB	180	WHITE KRAFT	180	WHITE KRAFT	180KW / EB / 180KW
EB	125	MOTTLED WHITE	125	BROWN TEST	125M / EB / 125TT
EB	150	MOTTLED WHITE	150	BROWN TEST	150M / EB / 150TT
EB	200	MOTTLED WHITE	200	BROWN TEST	200M / EB / 200TT

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EB FLUTE

DOUBLE-WALL STRENGTH.
PREMIUM PRINT PERFORMANCE.



19.3 COATED WHITE GRADES

PREMIUM PRINT SURFACE
High quality white surface for vibrant, high-impact printing

HIGH PERFORMANCE
Excellent strength and crush resistance for heavy-duty use

IDEAL FOR BRANDING
Perfect for premium retail, POS and high-visibility packaging

SUSTAINABLE CHOICE
Made from recyclable fibres and widely recovered

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EB	150	WHITE CLAY COAT	200	BROWN TEST	150DC / EB / 200TT
EB	150	WHITE CLAY COAT	150	WHITE TEST	150DC / EB / 150TW
EB	150	WHITE CLAY COAT	150	WHITE KRAFT	150DC / EB / 150KW
EB	180	WHITE CLAY COAT	150	BROWN TEST	180DC / EB / 150TT
EB	180	WHITE CLAY COAT	200	BROWN TEST	180DC / EB / 200TT
EB	180	WHITE CLAY COAT	200	BROWN KRAFT	180DC / EB / 200KK
EB	180	WHITE CLAY COAT	150	WHITE TEST	180DC / EB / 150TW
EB	180	WHITE CLAY COAT	180	WHITE TEST	180DC / EB / 180TW
EB	180	WHITE CLAY COAT	120	WHITE KRAFT	180DC / EB / 120KB
EB	180	WHITE CLAY COAT	150	WHITE KRAFT	180DC / EB / 150KW
EB	180	WHITE CLAY COAT	175	WHITE KRAFT	180DC / EB / 175KW
EB	180	WHITE CLAY COAT	180	WHITE KRAFT	180DC / EB / 180KW
EB	180	WHITE CLAY COAT	180	WHITE CLAY COAT	180DC / EB / 180DC
EB	190	WHITE CLAY COAT	150	BROWN TEST	190DC / EB / 150TT
EB	190	WHITE CLAY COAT	200	BROWN TEST	190DC / EB / 200TT
EB	190	WHITE CLAY COAT	150	WHITE TEST	190DC / EB / 150TW
EB	190	WHITE CLAY COAT	150	WHITE KRAFT	190DC / EB / 150KW
EB	190	WHITE CLAY COAT	180	WHITE TEST	190DC / EB / 180TW
EB	190	WHITE CLAY COAT	180	WHITE KRAFT	190DC / EB / 180KW

19.4 LAMINATION / MOUNTING GRADES

LAMINATION READY
Designed for lamination and mounting applications

EXCELLENT STABILITY
High dimensional stability for consistent performance

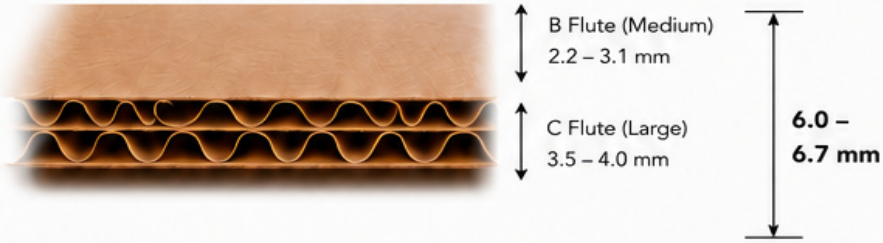
IDEAL FOR DISPLAYS
Superior flatness and rigidity for POS and display units

CLEAN & SMOOTH FINISH
Smooth surface for a professional, clean appearance

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
EB	125	BROWN TEST	150	WHITE KRAFT	125TT / EB / 150KW
EB	150	BROWN TEST	150	BROWN KRAFT	150TT / EB / 150KK
EB	150	BROWN TEST	150	WHITE TEST	150TT / EB / 150TW
EB	150	BROWN TEST	150	WHITE KRAFT	150TT / EB / 150KW
EB	150	BROWN KRAFT	150	WHITE KRAFT	150KK / EB / 150KW
EB	200	BROWN TEST	180	WHITE KRAFT	200TT / EB / 180KW

BC FLUTE

MAXIMUM STRENGTH. HEAVY-DUTY TRANSIT PERFORMANCE.



BC flute combines the stacking strength of C flute with the crush resistance of B flute to create a highly durable double-wall corrugated structure.

With a total board thickness of approximately:

6.0 – 6.7 mm

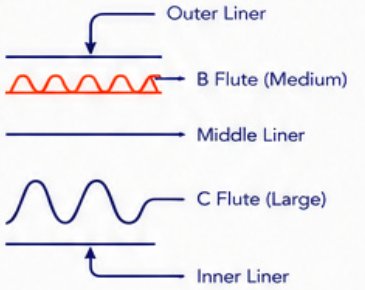
BC flute is designed for:

- heavy-duty transit packaging
- industrial applications
- export packaging
- high stacking environments
- fragile product protection

while still supporting:

- die-cut packaging formats
- printed branding
- custom structural packaging

THE BC STRUCTURE



A combination of B and C flutes creates exceptional stacking strength, impact resistance and durability for the most demanding packaging applications.

BC FLUTE SPECIFICATIONS

TOTAL BOARD HEIGHT
6.0 – 6.7 mm

B FLUTE HEIGHT
2.2 – 3.1 mm

C FLUTE HEIGHT
3.5 – 4.0 mm

COMBINED FLUTE COUNT
Approx. 86 flutes per linear foot

PERFORMANCE
Exceptional stacking and compression strength

KEY BENEFITS

SUPERIOR STACKING PERFORMANCE
Excellent compression strength for warehouse and pallet stacking.

HEAVY-DUTY PROTECTION
Designed for large, fragile and high-weight products.

IMPACT RESISTANCE
Double-wall structure absorbs transit shocks and handling damage.

INDUSTRIAL RELIABILITY
Trusted for export packaging and demanding logistics applications.

PRINT & DIE-CUT CAPABILITY
Strong board profile still suitable for branded packaging applications.

WHAT MAKES BC DIFFERENT?

Compared to EB flute:

- thicker overall board
- higher stacking performance
- increased puncture resistance
- greater transit protection
- optimised for industrial packaging

while EB remains:

- slimmer
- more retail-oriented
- more print-focused

This positions BC flute as the preferred choice where protection and stacking strength are the priority.

IDEAL APPLICATIONS

INDUSTRIAL EQUIPMENT
Heavy equipment, machinery and components

WAREHOUSING & LOGISTICS
High stacking warehouse and distribution use

EXPORT PACKAGING
Ideal for long-distance shipping and export compliance

FRAGILE & HIGH-WEIGHT PRODUCTS
Extra protection for large or delicate items

BULKY GOODS
Perfect for heavy, bulky and irregularly shaped products

22.1 CONVENTIONAL BROWN GRADES

- ✓ Strong and reliable protection
- ✓ Excellent stacking performance
- ✓ Cost-effective performance
- ✓ Ideal for heavy-duty packaging

22.2 UNCOATED WHITE GRADES

- ✓ Natural white appearance
- ✓ Smooth matte finish
- ✓ Reinforced fluting option
- ✓ Versatile for industrial applications

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BC FLUTE

DOUBLE-WALL STRENGTH.
MAXIMUM TRANSIT PERFORMANCE.



22.1 CONVENTIONAL BROWN GRADES

STRONG & RELIABLE
Excellent strength and crush resistance

COST-EFFECTIVE
High performance at an economical board profile

IDEAL FOR TRANSIT
Built for heavy-duty shipping and stacking

SUSTAINABLE CHOICE
Made from recyclable fibres and widely recovered

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
BC	125	BROWN TEST	125	BROWN TEST	125TT / BC / 125TT
BC	125	BROWN TEST LINER	125	BROWN TEST	125L / BC / 125TT
BC	125	BROWN KRAFT	125	BROWN TEST	125KK / BC / 125TT
BC	125	BROWN KRAFT	125	BROWN KRAFT	125KK / BC / 125KK
BC	150	BROWN TEST	150	BROWN TEST	150TT / BC / 150TT
BC	150	BROWN TEST LINER	150	BROWN TEST	150L / BC / 150TT
BC	150	BROWN KRAFT	150	BROWN TEST	150KK / BC / 150TT
BC	150	BROWN KRAFT	150	BROWN KRAFT	150KK / BC / 150KK
BC	200	BROWN TEST LINER	200	BROWN TEST	200L / BC / 200TT
BC	200	BROWN KRAFT	200	BROWN TEST	200KK / BC / 200TT
BC	200	BROWN KRAFT	200	BROWN KRAFT	200KK / BC / 200TT (RF20) Reinforced Fluting
BC	300	BROWN KRAFT	300	BROWN TEST	300KK / BC / 300TT
BC	300	BROWN KRAFT	300	BROWN KRAFT	300KK / BC / 300TT (RF20) Reinforced Fluting
BC	300	BROWN KRAFT	300	BROWN KRAFT	300KK / BC / 300KK (RF20) Reinforced Fluting

22.2 UNCOATED WHITE GRADES

NATURAL APPEARANCE
Natural white appearance with a smooth matte finish

EXCELLENT SURFACE
Smooth matte surface suitable for quality printing

REINFORCED OPTIONS
Reinforced fluting option for added strength

SUSTAINABLE CHOICE
Recyclable and responsibly sourced

Flute Profile	Outer GSM	Outer Liner	Inner GSM	Inside Liner	Example Grade
BC	125	WHITE KRAFT	125	BROWN TEST	125KW / BC / 125TT
BC	150	WHITE TEST	150	BROWN TEST	150TW / BC / 150TT
BC	150	WHITE KRAFT	150	BROWN TEST	150KW / BC / 150TT
BC	175	WHITE KRAFT	175	BROWN TEST	175KW / BC / 175TT
BC	175	WHITE KRAFT	175	BROWN TEST	175KW / BC / 175TT (RF20) Reinforced Fluting
BC	180	WHITE KRAFT	200	BROWN TEST	180KW / BC / 200TT
BC	125	MOTTLED WHITE	125	BROWN TEST	125M / BC / 125TT
BC	150	MOTTLED WHITE	150	BROWN TEST	150 / BC / 150TT
BC	200	MOTTLED WHITE	200	BROWN TEST	200 / BC / 200TT

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CORRUGATED BOARD JARGON BUSTER

Your guide to commonly used terms and what they really mean.

WHY IT MATTERS

Understanding industry terms helps you compare options, communicate with confidence and choose the right material for the job.

MATERIAL & PAPER TERMS

KRAFT
Strong, natural brown paper made from virgin wood pulp, ideal for durable packaging.

WHITE KRAFT
A white-faced kraft liner that offers a clean, bright surface for printing and branding.

MOTTLED WHITE
An off-white liner with a natural, matte finish.

CLAY COAT
A smooth coating applied to paper to improve print quality and enhance surface appeal.

TEST LINER
A recycled paper liner used in the manufacture of corrugated board.

VIRGIN FIBRE
Paper produced from new pulp rather than recycled material.

PERFORMANCE TERMS

GSM (GRAMMAGE)
The weight of paper measured in grams per square metre (g/m²).

EDGE CRUSH TEST (ECT)
A laboratory test that measures a board's resistance to crushing along the edge.

BURST STRENGTH
The amount of pressure the board can withstand before it ruptures.

STACKING STRENGTH
The ability of the board to support weight from stacked loads without failure.

LIGHTWEIGHTING
Reducing the weight of the board while maintaining the required performance.

CLAY COAT QUALITY
The level of coating smoothness that improves print sharpness and finish.

MANUFACTURING & MEASUREMENT TERMS

ACROSS FLUTE
The direction measured perpendicular to the flute direction.

SLIT EDGE
The edge of the sheet that runs parallel with the flute direction.

CHOP SIZE
The length dimension of the corrugated sheet (i.e. the sheet length).

DECKLE
The machine running width of the board on the corrugator.

BLANK
A cut and creased flat sheet ready to be converted into a box or display.

SINGLE FACE
One flute layer bonded to a single liner.

INDUSTRY & APPLICATION TERMS

FEFCO
The European organisation that develops standard packaging design codes.

FEFCO STYLES
Standardised packaging designs used across the corrugated industry.

ENHANCED FLUTING
Stronger flute structures for improved performance in demanding conditions.

VIRGIN FIBRE CONTENT
The proportion of new fibre used in the board construction.

PRINT GRADE
Board types designed to deliver high-quality print results and visual appeal.

RECYCLABLE
Corrugated board is widely recyclable and made from renewable resources.

TYPICAL PERFORMANCE GUIDE

Indicative board performance recommendations

The table below provides a general guide to the product weights commonly associated with different board grades.

Actual performance will vary depending on:

BOX DESIGN | DIMENSIONS | STACKING | ENVIRONMENT | TRANSIT

FLUTE PROFILE	TYPICAL GRADE	INDICATIVE PRODUCT WEIGHT
B / E	125 K/T	4 – 6 kg
	150 K/T	8 – 12 kg
	200 K/T	12 – 17 kg
	200 K / 300 T	17 – 25 kg
	300 K/T	25 – 35 kg
BC / EB	125 K/T	10 – 15 kg
	150 K/T	15 – 25 kg
	200 K/T	25 – 35 kg
	200 K / 300 T	35 – 40 kg
	300 K/T	40 – 45 kg

QUICK REFERENCE

Key terms at a glance

FLUTE
The wave-shaped medium that provides strength, rigidity and cushioning between liners.

LINER
The flat paper layers that form the outer and inner surfaces of the board.

SINGLE WALL
One flute layer sandwiched between two liners.

DOUBLE WALL
Two flute layers with a middle liner for increased strength and protection.

TRIPLE WALL
Three flute layers with two liners for maximum strength in heavy-duty applications.

BOARD GRADE
A combination of liner type/weight, flute profile and board construction.

SPEAKING THE SAME LANGUAGE

Clear communication starts with understanding the terms. Use this guide when specifying, comparing or discussing corrugated board to get the best results every time.

MAKE INFORMED DECISIONS | GET THE RIGHT PERFORMANCE | BUILD STRONGER RELATIONSHIPS | REDUCE RISKS & ERRORS | IMPROVE COST EFFICIENCY

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CORRUGATED MATERIALS GUIDE



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Guidance from our experienced team

BESPOKE SOURCING
Specialist grades and custom requirements

RELIABLE PERFORMANCE
Quality you can count on

SUSTAINABLE CHOICES
Recyclable and responsibly sourced materials

PRINT & PRESENTATION EXCELLENCE
Optimised for every print method

FSC

We source FSC® certified boards to support responsible forestry and a more sustainable future.

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