

From idea to factory enquiry

A demonstration project designed by Fabrup



Passage 01. A zip-top work tote with a padded laptop sleeve and one inside slip pocket. Original concept, proposed materials and dimensions.

Stage reached: internally checked documentation for technical review and factory enquiry. Not a cutting pattern, approved sample or production release.

Editable sources: JSON, CSV, SVG and Python. FR and EN PDFs. Every dimension is a design choice; none comes from a physical measurement.

The fictional brief

User and contents

Urban professional travelling between home, coworking and meetings. Test contents: a rigid 325 × 225 × 18 mm laptop gauge, A5 notebook and charger. No compatibility claim based on screen diagonal.

Use and boundaries

Shoulder or hand carry, office and everyday travel. Proposed useful load 4 kg, to be tested. No waterproof, impact-protection or protective-equipment promise. No external pockets or shoulder strap.

Acceptance targets

Zip closes with the proposed load; computer inserts without force; light lining makes small objects visible; two handles and two internal organizers only. Materials, wear and comfort remain to be assessed.

Brief deliberately not supplied

No real customer, target retail price, firm production quantity or deadline. 100/300/500 units are comparison scenarios only. Market requirements and material evidence need specialist review.

Three directions, one decision



Direction	Decision
A / Sand	Warm and simple, but light handles may mark easily.
B / Olive + navy	Selected. Visible structural straps, neutral body, light interior. Two colour references to control.
C / Navy + grey	Clean office look; lighter handles add contrast but no functional advantage.

AI-generated visual exploration. Final construction is defined by D1 drawings. Colours on a screen are not approved material references.

Dimensions and measurement rules

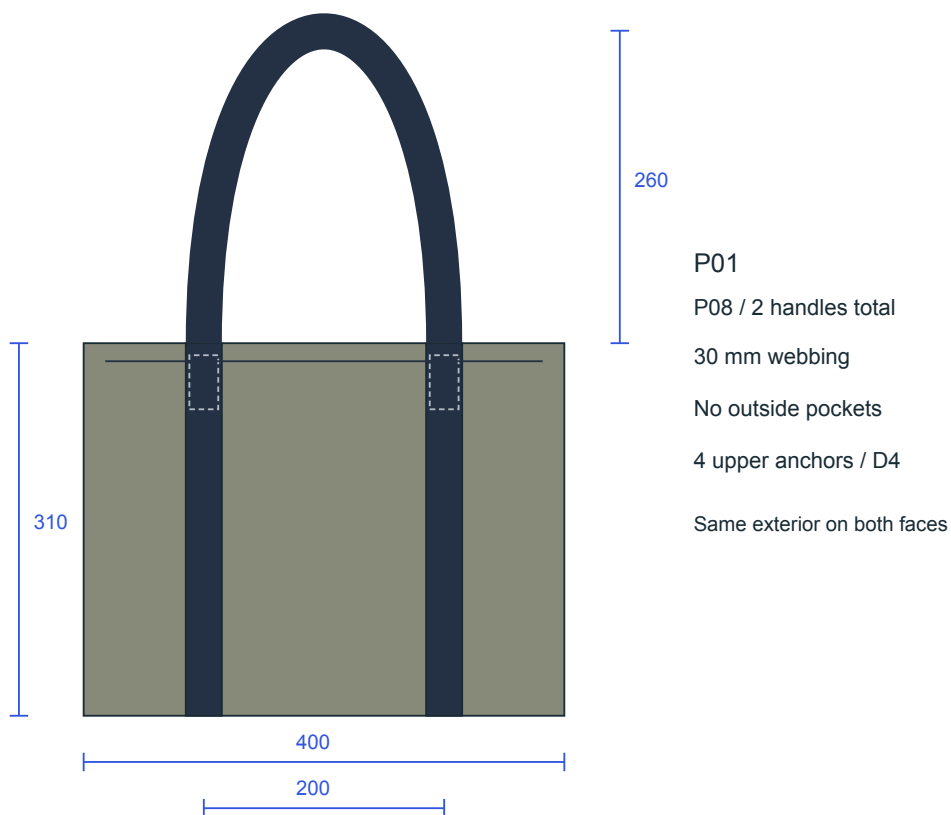
Point	Target / mm	Measurement
Body / Corps	400 × 310 × 120 ±5	Empty, relaxed / vide, sans tension
Clear body / Corps utile	380 × 290 × 100 min	Rigid gauge / gabarit rigide
Top opening / Ouverture	365 × 90 min	Zip fully open / zip ouvert
Sleeve / Housse utile	350 × 245 × 25 min	Inside, uncompressed / sans compression
Handles / Anses	2; width 30; drop 260 ±10	Rim to inner apex / bord au sommet intérieur
Anchors / Axes sangles	x=100 and 300 ±3	From left edge / depuis bord gauche
Pocket / Poche utile	160 × 140 min	Top at z=230 ±5 / ouverture
Sleeve outer / Housse ext.	364 × 255 × 35 max	Bottom z=20 / dessous

All tolerances are provisional proposals for the sample, subject to maker review. Minimum useful dimensions override nominal body tolerances. Coordinate origin: front left bottom; x across width, z upwards, y from front to rear.

Front elevation

Front

D1 / mm / proposed dimensions



Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Rear elevation

Rear

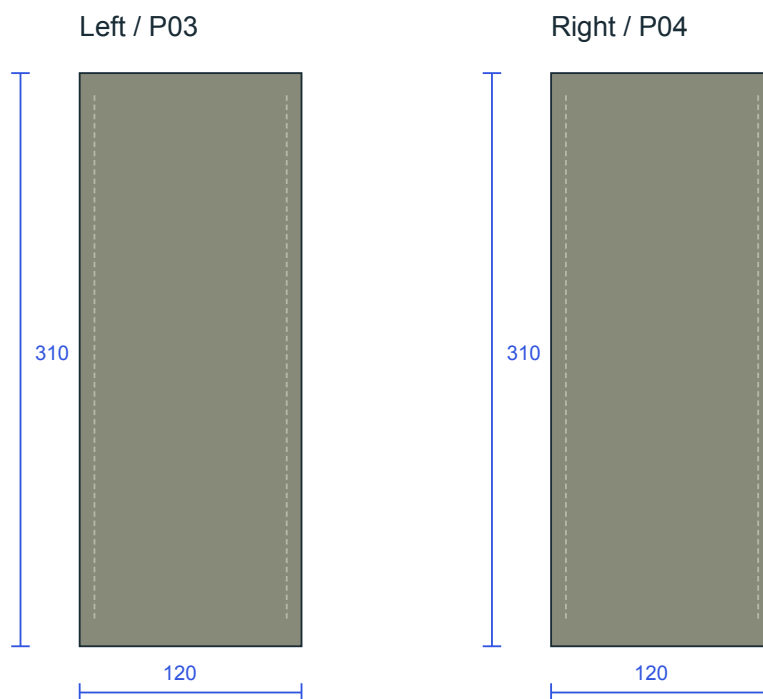
D1 / mm / proposed dimensions



Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Both side elevations

Left and right sides



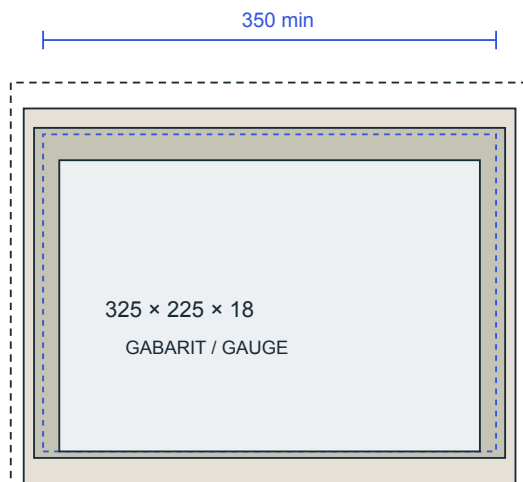
Handles omitted. No side pockets, strap or hardware.

Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Interior organization

Inside: front and rear lining

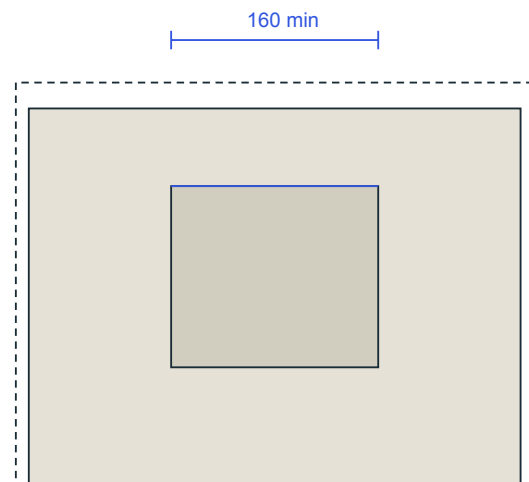
Rear sleeve / P10



Clear: 350 × 245 × 25 min

Bottom offset: 20

Front pocket / P11



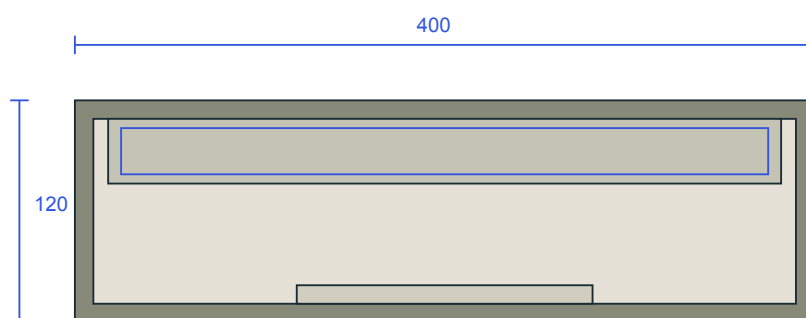
Clear: 160 × 140 min

Top at z=230; no fastener

Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Access and packing

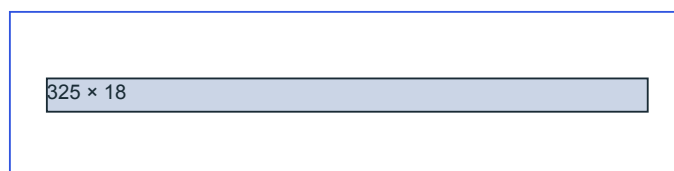
Top view and access check



Rear / Dos : P10

Front / Face : P11

OPENING / OUVERTURE : 365 × 90 min



40 mm width clearance / jeu total en largeur

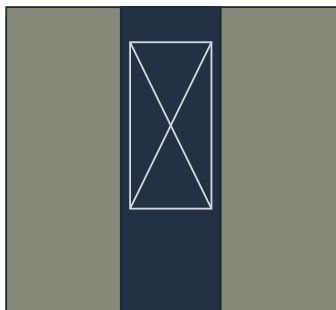
Facings spread by hand; verify with a rigid gauge.

Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Construction details

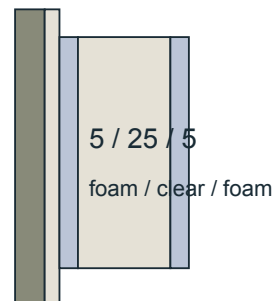
Construction details D4

A / Top handle anchor



Box-X: 24 × 45 proposed
+ concealed reinforcement P09

B / Sleeve section (diagram)



Sleeve floor: z=20
No impact protection claim

C / Outer seams: 10 mm provisional allowance; bound raw edges.

Lockstitch 3 mm proposed; thread and needle to be sampled.

Zip facings: 2 × P06; zipper level z=290; no side extension.

[Not cutting patterns. Maker review required.](#)

Proposed geometry, not measured. See dimensional register for tolerances. SVG source available.
Read dimensions; do not scale the page.

Fit review

Check	Calculation	Meaning
Laptop / Housse	$350-325=25$; $245-225=20$; $25-18=7$	Positive nominal clearances / jeux nominaux positifs
Entry / Entrée	$365-325=40$; $90-18=72$	Straight entry feasible on paper / passage droit possible sur plan
Sleeve / Corps	$380-364=16$; $290-275=15$	Fits proposed envelope / tient dans enveloppe proposée
Central space / Centre	$100-35-10=55$	Remaining target depth / profondeur restante visée
Envelope / Enveloppe	$400 \times 310 \times 120 = 14.88 \text{ L}$	Outside box, not usable capacity / volume extérieur, non capacité utile

These are deterministic geometric checks, not tests. Seam bulk, foam compression, zip stops, fingers and handle interference can invalidate the fit. Use the actual rigid gauge and sample with notebook and charger before approval.

Bill of materials 1/2

ID / qty	Part / finished size	Material / open point
P01/P02 / 2	Face et dos / Front and rear; 400 × 310	Toile coton / cotton canvas 350 g/m ² proposed; Retrait, tenue couleur, épaisseur / shrinkage, colourfastness, thickness
P03/P04 / 2	Côtés / Side gussets; 120 × 310	Même toile / same canvas; Sens chaîne vertical / warp vertical
P05 / 1	Fond / Base; 400 × 120	Même toile / same canvas; Renfort éventuel après test / assess stiffness
P06 / 2	Parements zip / Zip facings; Interface 380 × 100	Même toile / same canvas; Largeur de chaque bande selon zip / develop with zipper
P07 / 5	Doublure corps / Body lining; Utile min 380 × 290 × 100	Tissé polyester / polyester woven 150 g/m ² proposed; Patronner séparément / separate lining pattern
P08 / 2	Anses / Handles; 30; tombé / drop 260	Sangle polyester marine / navy polyester webbing; Longueur coupe à patronner / cut length TBD
P09 / 4	Renforts hauts / Upper reinforcements; 50 × 70 proposed	Toile doublée / doubled canvas; Inclure renforts bas si nécessaire / review lower anchors

Proposed materials only. Quantities are finished components; cutting layout, losses and shrinkage are not calculated. No factory price or certification is assumed.

Bill of materials 2/2

ID / qty	Part / finished size	Material / open point
P10 / 1 set	Housse / Laptop sleeve; Utile / clear 350 × 245 × 25 min	Doublure + mousse PE / lining + PE foam 5 mm; Extérieur max 364 × 255 × 35; composition patron à revoir
P11 / 1	Poche plaquée / Slip pocket; Utile / clear 160 × 140 min	Doublure / lining; Ouverture / opening z=230; profondeur cible / depth target 10
P12 / 1	Zip principal / Main zipper; Ouverture / opening 365 min	Spirale #5 marine / navy coil #5; 1 curseur / 1 slider; longueur commande à confirmer
P13 / as needed	Fil + ganse / Thread + binding; Point / stitch 3 proposed	Polyester ton sur ton / matching polyester; Titre fil, aiguille, résistance à essayer / thread, needle, strength TBD

Proposed materials only. Quantities are finished components; cutting layout, losses and shrinkage are not calculated. No factory price or certification is assumed.

Assembly proposal

1. Validate swatches, shrinkage and pattern allowances with the maker. Prepare outer panels, separate lining and reinforcements.
2. Apply four P09 upper reinforcements behind the webbing. Sew both full-height P08 handle legs per face; proposed 24 × 45 box-X anchors near rim. Keep useful drop 260 after assembly.
3. Prepare P10 padded sleeve as a separate three-dimensional assembly. Sew to rear lining with base raised 20. Bind opening; do not reduce useful 350 × 245 × 25 volume.
4. Hem P11 opening and apply to front lining at z=230. Bar tack upper corners. Check 160 × 140 useful size after hemming.
5. Assemble face, rear, two gussets and base; provisional seam allowance 10. Close lining separately and bind exposed raw edges.
6. Fit single-slider P12 into two P06 facings at z=290. Zipper stops remain inside gusset seams. Pattern this interface around minimum 365 × 90 entry.
7. Join lining, facings and shell; topstitch rim. Check count, access and loaded closure. Record departures as revision D2 before sampling approval.

Construction is a proposal. A bag pattern maker must resolve corner joins, sleeve gussets, foam turn-of-cloth, webbing lengths and stitch/needle/thread settings. No ready-to-cut pattern is delivered.

Factory enquiry worksheet

ID	Question / bilingual worksheet
Q01	Patronage / Pattern — Confirmer les volumes utiles, marges, raccords et ordre montage / confirm clear sizes, allowances, joints and assembly
Q02	Matières / Materials — Références, masse, épaisseur, retrait et échantillons physiques / references, mass, thickness, shrinkage and swatches
Q03	Accès / Access — Gabarit 325 × 225 × 18; passage ouverture 365 × 90 min et housse 350 × 245 × 25 min / gauge test
Q04	Composants / Components — Zip 1 curseur, longueur utile, sangle 30 mm; alternatives clairement identifiées / single-slider zipper, useful length, webbing
Q05	Prototype / Sample — Prix patronage, échantillon, révisions, transport séparés; délai après matières / itemised development and lead time
Q06	Série / Production — Scénarios non engageants 100 / 300 / 500 pièces, MOQ matière/couleur, Incoterm + lieu / indicative quantities, MOQ, term and place
Q07	Qualité / Quality — Tolérances proposées, essais internes, sous-traitance, points refusés / tolerances, tests, subcontracting, exceptions
Q08	Conformité / Compliance — Marché et usage à confirmer avec spécialiste; justificatifs matière à identifier / market and use to assess with specialist
Q09	Fichiers / Files — Formats patron, droits de réutilisation, propriété des fichiers et coût transfert / pattern formats, ownership and handover cost

Responses are blank in the editable CSV. No enquiry sent. Compare exceptions and total development cost before unit price.

First sample checks 1/2

ID	Target / cible	Method / méthode
C01	Dimensions corps / Body dimensions; 400 × 310 × 120 ±5 proposed	Mètre; vide, sans tension / tape, empty, relaxed
C02	Volumes utiles / Clear dimensions; Corps 380 × 290 × 100 min; housse 350 × 245 × 25 min	Gabarits rigides / rigid gauges
C03	Insertion ordinateur / Laptop access; Gabarit 325 × 225 × 18; 10 insertions sans forcer ni accrocher / 10 easy insertions	Essayer ouverture totale, anses rabattues / fully open, handles folded
C04	Poche / Slip pocket; 160 × 140 min; ouverture z=230 ±5 proposed	Gabarit; vérifier chute objets / gauge and retention
C05	Portage / Carry; Objectif usage 4 kg; présélection 4 kg pendant 30 min + 50 levers / proposed screening	Sans rupture, décollement ou déformation gênante / no failure or harmful deformation

Proposed internal screening, not a standard or certification. Agree the protocol before making a sample; record actual measurements, photos, reviewer and date. Any failure remains open until correction and re-test. Production requires a separate signed reference and control plan.

First sample checks 2/2

ID	Target / cible	Method / méthode
C06	Zip / Zipper; 100 cycles chargés à 4 kg, sans coincement / loaded cycles without jamming	Noter effort, accrochage doublure / note force and lining catches
C07	Aspect / Appearance; 2 anses, 0 poche externe, 1 housse, 1 poche, 1 zip / exact component count	Photos 6 vues + détails coutures / six views and seam details
C08	Matières / Materials; Comparer à échantillons approuvés; frottement/couleur à définir / approved swatches and specialist tests	Pas de certification ni résultat prérempli / no assumed certification
C09	Usage / Use; Ordinateur + carnet A5 + chargeur; zip se ferme sans comprimer / closes without squeezing	Essai porté sur plusieurs utilisateurs / several user trials

Proposed internal screening, not a standard or certification. Agree the protocol before making a sample; record actual measurements, photos, reviewer and date. Any failure remains open until correction and re-test. Production requires a separate signed reference and control plan.

Review, limits and next decision

Documentary checks performed

Six vector plates generated from a common geometry; positive laptop/entry clearances; component counts reconciled with the BOM; bilingual PDFs and editable worksheets. Exterior render corrected to remove a misleading side zipper extension.

Open technical points

Maker review, cutting patterns, actual materials and colour swatches, seam bulk, handle load strength, comfort, access and sample tests. The internal AI render is an exploratory asset, not the reference for stitching or dimensions.

Decision gate

Proceed to a costed technical review and first sample only after scope, responsibilities, budget and approval. No customer, purchase, physical sample, factory approval, test result or production validation is claimed.

Files and revision

D1 dated 08 September 2026. Editable JSON dimensions, SVG drawings, CSV BOM/enquiry/sample sheets and Python PDF builder are included. Record future changes against point IDs; retain D1 as the consultation baseline.