Laundry chute: Express Duct

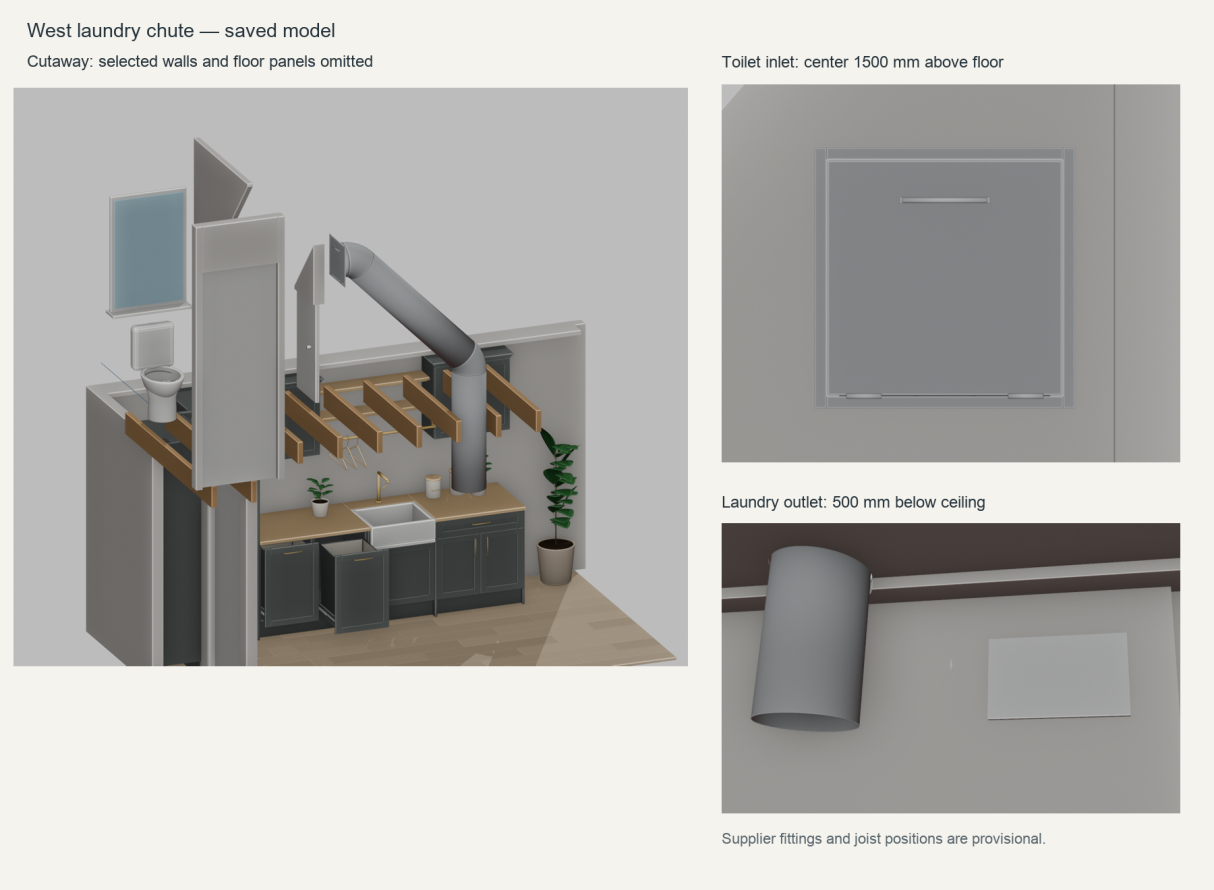
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Express Duct replaces spiral duct. Specify two 300 mm bends and two 1.5 m straight lengths. Allow one slip duct, four joint clips, and four suspension clips. Mark will source the door; the receiver remains undecided.

Prices were checked on November 4, 2026. Express Duct pages showed stock available for dispatch. Suspension prices carry forward from the same-day check. No purchase or supplier contact occurred.

Product	Quantity	Unit ex VAT	Unit inc VAT	Line inc VAT
Express Duct 300 mm 45-degree bend	2	£23.99	£28.79	£57.58
Express Duct 300 mm straight, 1500 mm	2	£48.67	£58.40	£116.80
Express Duct 300 mm quick joint clip	4 allowance	£19.45	£23.34	£93.36
Express Duct 300 mm slip duct, 350 mm	1 allowance	£25.78	£30.94	£30.94
300 mm suspension clip with hanger bolt	4 allowance	£5.17	£6.20	£24.80
Parts and allowances subtotal		£269.58		£323.48

The total sums displayed VAT-inclusive prices; checkout rounding may differ. Delivery, door/adapter and its clip, receiver, slip seal/retention extras, supplier end-forming, outlet finish, protection, backing, and alternative vertical supports are excluded. Joint clips connect parts; suspension clips attach duct to the building.



Saved proposal image. The supplier bends use a 300 mm radius; this image uses 225 mm. Cabinetry also predates later revisions. Express Duct rolled ends and joint clips are not shown. Door and receiver are excluded.

Supplier geometry and tube lengths

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Bends: Galvanized clipped 45-degree bends. The Express drawing gives D = 300 mm, R = 300 mm, over-turnout T = 312 mm, end piece EP = 60 mm, and offset O = 261 mm. End pieces extend the curved body; they are not the old spiral system's inserted slips.

Straight tube: The drawing gives 300 mm internal diameter, 1500 mm length, 0.8 mm galvanized sheet, 6 mm turnout, and 312 mm over-turnout diameter. Nominal plain-body outside diameter is about 301.6 mm before seam/tolerances. Spiral sheet thickness and weight no longer apply.

Bore: The supplier describes a smoother internal bore and dismantling for cleaning. The selected straight tube removes the spiral seam; bend seams, joint steps, and the slip transition still need fabric checks. Laundry/bedding suitability is not certified.

Slip duct: The drawing gives 350 mm length, 303 mm internal diameter, 312 mm over-turnout, and 0.8 mm sheet. The product adjusts shortened straight duct. Minimum overlap, cut-end seal, and axial retention are not stated in the drawing.

Clips: Quick clips are separate purchases. Their drawing shows an internal seal, 27 mm width, and a 10 mm radial dimension; a complete installed envelope and load rating are not given. Four suspension clips remain a support allowance, pending actual body fit, anchors, and load ratings.

Straight lengths and assembly

The old 1218 mm diagonal and 1069 mm vertical figures are curved-body tangent spans, not Express Duct cut lengths.

Layout targets retain upper curved-body start Y 3010, Z 3969.5 mm and lower curved-body end Y 1849, Z 2808.5 mm. Southward and downward displacement are both 1161 mm. Inlet wall connection Y is 3060 mm; outlet Z is 1740 mm.

Section	Calculation	Planning span
Diagonal curved-body tangent span	(1161 - 300) x square root of 2	1218 mm
Diagonal between bend mating faces	1217.638 - 2 x 60	About 1098 mm
Vertical mating face to outlet	2808.5 - 60 - 1740	About 1009 mm
Stock allocation	One 1500 mm length per section	3000 mm total

Diagonal: Cutting removes one rolled end. Retain one factory end and use the slip duct at the other, subject to its seal/retention instructions. The straight-plus-sleeve assembly targets about 1098 mm. The tube cut depends on sleeve projection/overlap; no diagonal cut is released. Supplier end-forming could replace the sleeve if quoted.

Vertical: Retain the upper rolled end for the lower bend joint. Trim only the open outlet end to the approximately 1009 mm assembled target. Confirm the length datum and actual end pieces before cutting; deburr and finish the outlet.

Inlet: The upper bend's 60 mm end piece reaches Y 3070 mm under the retained curved-body target. The modeled inlet connection is Y 3060 mm. The door adapter must resolve this 10 mm mismatch; the old 50 mm neck is superseded.

Joint count: Three bend-to-straight interfaces need three quick clips. Allow a fourth for the adjustable cut-end connection, pending its retention method. The door may need another clip/adapter; neither is counted. Spiral male/female couplers are removed from the specification.

Floor crossing: Use a continuous plain section through the joist bay. Keep rolled ends, quick clips, and the slip sleeve outside the crossing. Recheck actual joists and the protection detail.

Joint, support, and fit checks

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Clearance: Approximate 301.6 mm plain-body diameter leaves 9.2 mm per side in an assumed 320 mm bay. A 312 mm rolled end leaves 4 mm per side before a clip. Those figures exclude tolerances and protection. The old 310 mm modeled hole cannot pass a 312 mm end; confirm insertion order and the final opening.

Slip and fabric: Obtain minimum overlap, cut-end seal, retention, and assembly instructions. Inspect fabric passage across seams and transitions. Avoid projecting fasteners inside the bore. A smoother bore does not establish snag-free bedding passage.

Supports: Confirm mass, clip ratings, spacing, anchors, and positive axial support for vertical tube and bends. The door, plasterboard, and penetration seal must not carry the assembly. Quick joint clips do not replace building supports.

Site and protection: Remeasure alignment after the 590 mm alcove revision moved the laundry entry wall 100 mm south while upstairs and chute stayed fixed. Confirm roof space, fuse-box access, inlet safety, cleaning access, and fire/acoustic floor treatment. Joist trimming needs an engineered detail.

Supplier links and saved evidence

Bend product: Open supplier page or drawing

Tube product: Open supplier page or drawing

Quick clip: Open supplier page or drawing

Slip duct: Open supplier page or drawing

Suspension clip: Open supplier page or drawing

Bend drawing: Open supplier page or drawing

Tube drawing: Open supplier page or drawing

Slip drawing: Open supplier page or drawing

Clip drawing: Open supplier page or drawing

Supplier drawings are saved in artifacts/laundry-chute/. Revision 3 supersedes the spiral selection in revision 2. The render still uses illustrative 225 mm-radius bends and 1.5 mm tube wall; the shared model remains unchanged.

Site/model basis: west_chute_model_checks.json and upstairs_toilet_dimensions.json in artifacts/laundry-room/. The later 590 mm alcove revision moved the laundry entry wall 100 mm south while upstairs and chute stayed fixed. Their alignment still needs measurement.

Inlet plate: two options

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Specify either option below, subject to measured fit. Neither option is included in the £323.48 ducting subtotal. Mark will source the door separately; the receiver remains undecided.

Option	Listed connection and shape	Price
PATIKIL ABS plastic adapter, ASIN B0G3H652XT	White square surround; select 13-inch to 12-inch. Listed round spigot outside diameter: 298 mm.	£22.99 displayed
Dust Spares square metal wall flange, SQMWF-300	Select 300 mm. Square predrilled backplate; male spigot designed to fit inside ducting.	£25.48 inc VAT

Plastic dimensions: Amazon lists a 330 x 330 mm square end in the product bullets, but 180 x 180 mm elsewhere. Listed heights are 90, 37, and 15 mm without clear dimension labels. Confirm a dimensioned drawing, plate size, spigot length, and clear bore before ordering.

Plastic fit: A listed 298 mm outside spigot should enter the 300 mm internal duct bore with about 1 mm radial clearance, before tolerances. This is a proposed slip fit, not verified Express Duct compatibility. The clear opening is smaller than the spigot outside diameter by the plastic wall thickness, which is not stated.

Metal dimensions: The supplier lists spigot lengths of 40-60 mm across the range. The exact 300 mm version's spigot length, outside diameter, plate dimensions, and clear bore remain unconfirmed. The page lists 3-5 working days for SQMWF-300.

Connection and support: Both options have plain male spigots and cannot connect directly with an Express Duct quick clip. Confirm a retained and sealed slip connection or adapter at the inlet bend. Keep fasteners out of the bore and finish the transition to avoid fabric snags. The plate and door must not support the chute weight.

Layout: Confirm the selected plate's projection against the inlet's 10 mm mismatch. Door mounting, cleaning access, and the required fire/protection detail remain open; the plastic product has no verified fire rating for this installation.

Cost: With one plastic adapter, the displayed parts total is £346.47; with one metal flange, £348.96. These totals exclude delivery, door, receiver, and connection/support extras. Prices were checked on November 4, 2026.

Unchecked: Slip overlap/retention, final cuts, inlet plate dimensions and fit, joint envelope, site fit, support ratings, protection, laundry passage, and delivery.

Material risk: Rolled ends or joint clips may not fit the assumed bay; the cut diagonal needs a confirmed connection detail.

Plastic adapter: Open PATIKIL 13-inch to 12-inch option

Metal flange: Open Dust Spares; select SQMWF-300