Project Appliance Procurement & Integration

Refrigeration, cooking, extraction, dishwashing and laundry: select the exact market model, coordinate cabinetry and services, and retain the evidence behind the order.



GEORGE Group Foshan kitchen-showroom photograph. Built-in cooking appliances and a cooktop are visible within the cabinetry display; the image identifies no appliance model or installation approval.

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The governing decision

Release the documented appliance and its installation conditions together. A body that enters a cabinet can still fail the required opening, operating space, ventilation or service arrangement.

Buy an appliance configuration that the project can actually accommodate

Decision	What determines the order
Use and configuration	Household or commercial duty; built-in, freestanding or panel-ready construction; actual capacity and operating task.
Identity	Manufacturer, complete model, destination variant, document revision and supplied accessories.
Physical interfaces	Finished opening, support/fixing, doors, handles, adjacent finishes, ventilation and removal route.
Services	The named model’s electrical/fuel/water/drain conditions and the responsible installation review.
Commercial scope	Appliance, matched kits/panels/filters, delivery, installation, commissioning, service and warranty terms.

This guide serves project buyers, kitchen designers and fit-out coordinators. Named U.S. manufacturer documents and U.S./EU energy-label examples retain their own markets. They do not establish NOVARMIA stock, an authorized dealership, certification or installation capability.

The companion workbook records exact models and project quantities, compares supplied minimum-opening dimensions, and reconciles physical Each receipts. Electrical, gas, plumbing, ventilation, structural design and commissioning remain documented professional work.

Contents

Section	Buyer decision
01	Distinguish actual group scope, appliance configuration and intended use
02	Resolve refrigeration, cooking, extraction, dishwasher and laundry interfaces
03	Read market identity, energy/capacity and documentation correctly
04	Calculate a finished-opening conflict and actual physical demand
05	Normalize quotations, changes, delivery and receipt
Toolkit	Use Model Schedule, Opening Review and Receipt
Reference	Working terms, sources and photo credits

Three different dimensions

Body dimensions describe the appliance envelope on a stated basis. Installation dimensions describe the space and conditions the selected manufacturer requires. Operating and service dimensions describe what moves or must be reached and removed. Treating any one as the other creates an incomplete order.

GEORGE’s appliance route and the visible kitchen interface

GEORGE INT’L’s current showroom directory identifies its eighth-floor route as Electrical Appliances & Hotel Supplies. This supports an actual group appliance category; it supplies no model list, destination certification or installation clearance. NOVARMIA is a GEORGE Group brand, while the actual contracting and supplying entity belongs in the project documents. [G01]

The attributed Foshan photograph shows appliances within a kitchen-cabinet display. It is useful evidence of the visible appliance/cabinet interface, not proof of a particular manufacturer, energy rating or completed customer installation. [G02]

Procurement family in this guide	Definition needed for a real order
Refrigeration	Exact refrigerator/freezer/wine unit, configuration, front/handle, water option and actual installation type.
Cooking and extraction	Cooktop/range/oven and hood models, installation arrangement and related accessories.
Dishwashing	Exact appliance, front/panel type, supplied connection components and intended use.
Laundry	Separate washer/dryer or combined unit; freestanding/stacked arrangement and exact matched kit.

Category versus selected product

The families above organize project decisions. The public showroom route does not establish that every example model or configuration in this book is offered by the group.

Built-in, freestanding and panel-ready are different commitments

Alternative	Choose it when	What the choice commits
Built-in / built-under	The exact appliance is designed for the selected cabinet/opening arrangement.	Release its opening, support, heat/air paths, service and fastening details with the cabinet.
Freestanding	The actual unit and exposed sides/clearances suit the room and removal route.	Do not convert it into a built-in merely by surrounding it with joinery.
Panel-ready / integrated front	The exact model supports the intended furniture panel and hinge system.	Coordinate panel dimensions, mass, fixing, toe space, adjacent fronts and opening motion from its own documents.
Factory-finished front	The selected stainless, coated or other factory front meets the appearance brief.	Review handle/projection and finish sample; do not attach a furniture panel without model authority.

Bosch’s U.S. SHP65DM5N product page identifies a built-in/built-under dishwasher but says Panel Ready is not possible. A hidden top control and built-in appearance therefore do not establish furniture-panel compatibility. [T01]

Resolved front choice

If a continuous cabinet front is essential, select a documented panel-ready alternative and renew its opening, panel and hinge review. If the factory-finished model is retained, revise the adjacent-front design instead of treating an added panel as a cosmetic substitution.

A hotel location does not turn a household appliance into commercial equipment

The SHP65DM5N Use and Care Manual describes household dishware and specified similar applications, including customer use in hotels. It also states that NSF/ANSI 184 residential dishwashers are not intended for licensed food establishments. A sanitize option is not commercial-kitchen approval. [T03]

Actual task	Purchasing conclusion
Guest accommodation / domestic-style kitchen	Assess the exact manufacturer’s intended use and warranty, actual loading and local requirements.
Licensed food-service kitchen	Select equipment and evidence for that actual commercial duty; do not substitute a residential sanitize claim.
Guest-room laundry versus central linen operation	Define workload and use conditions before selecting domestic or commercial equipment. A count of rooms does not establish machine throughput.
Outdoor / unconditioned location	Require a model explicitly suitable for the actual environment; a stainless appearance is not an outdoor rating.

The named manual’s limited warranty separately defines covered purchase/use conditions. A technically suitable duty, legal use and agreed warranty are distinct decisions; resolve all three for the actual supply channel and destination. [T03]

Choose by the real operation

Specify who uses the appliance, what it processes, the actual operating pattern and who services it. Do not infer commercial duty, throughput or warranty coverage from the building’s name.

A dishwasher body and its required opening are separate records

The September 2026 SHP65DM5N sheet lists body dimensions of 33 7/8 × 23 9/16 × 23 3/4 in, versus a required cutout of 33 7/8 × 24 × 24 in, in height/width/depth order. It expressly directs the reader to installation instructions for final cutout data. [T02]

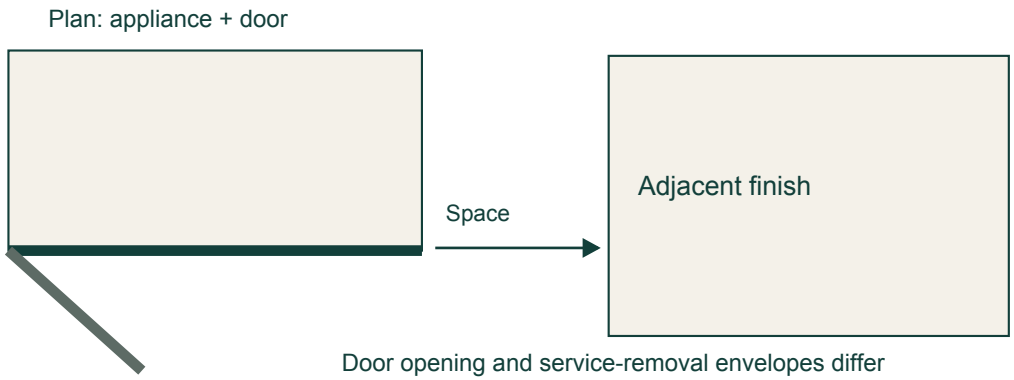
Interface	Decision before cabinet release
Finished height	Include actual finished floor, countertop underside, leveling and the selected installation detail.
Width / depth	Use required-opening and service information rather than body size alone.
Front / handle / door	Match the actual factory or panel-ready configuration and adjacent cabinet motion.
Connection route	Reserve the documented supply/drain/electrical passage and access.
Fixing / worktop	Use the selected manufacturer’s support and attachment arrangement for the actual substrate.

The named sheet separately shows connection routing and optional accessories, including its listed drain extension kit. That is a model-specific scope to price and review; it does not permit an arbitrary longer hose, hidden connector or revised cutout. [T02]

Resolve conflicting documents

If an offered unit, product page, sheet and installation guide differ, identify the complete supplied model/production version and obtain the controlling installation record. Do not assemble a smaller minimum from unrelated drawings.

Counter-depth appearance does not establish door or service clearance



Closed appliance, operating leaf and removal/service space are separate envelopes. This conceptual diagram contains no B36CT80SNS dimensions or approved clearance.

Bosch’s September 2026 B36CT80SNS sheet distinguishes depth with doors/handles, with doors but no handles, and without doors/hinges. Its drawing also separates pulling drawers out at a 90° door position from taking drawers out with the door fully open. [T04]

Choice	Consequence
Counter-depth factory front	Review protrusion, adjacent wall/handle collision and documented ventilation; the marketing description is not a flush-cabinet drawing.
Integrated panel-ready alternative	Use its own enclosure, panel, hinge and ventilation requirements; do not reuse the counter-depth unit’s drawing.
Water / ice option	Include the exact supply/filter and service arrangement, not only the refrigerator body.
Tight end-wall location	Resolve actual opening and drawer removal before releasing the wall or filler.

Resolved end-wall conflict

If everyday access works but the required drawer cannot be removed, change the appliance position, adjacent detail or selected model. A larger nominal cabinet width is not enough unless it changes the actual interference.

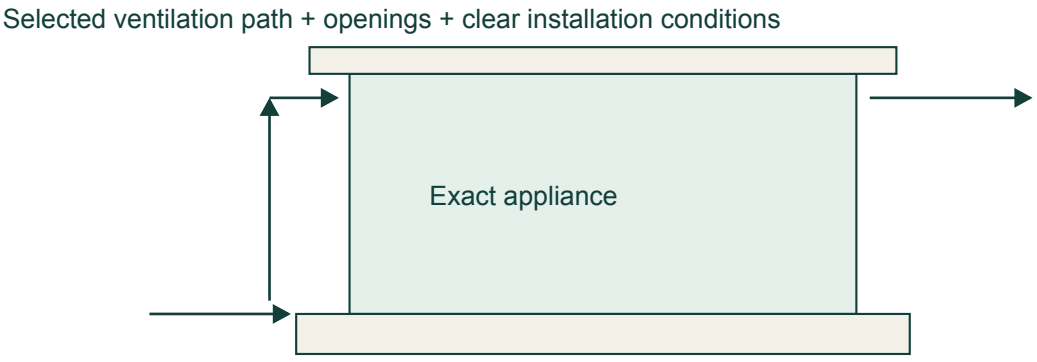
A range and a separate oven/cooktop require different cabinet decisions

Alternative	Selection advantage	Interface cost
Slide-in / freestanding range	One defined cooking appliance and its selected front/controls suit the layout.	Floor position, leveling, adjacent-counter relationship, service movement and actual restraint detail.
Separate built-in oven and cooktop	Independent appliance locations suit the required work sequence.	Separate support/openings, heat and service routes; their combination must be permitted, not assumed.
Gas cooking	Select only where the exact model/fuel and complete installation meet the project.	Fuel supply/conversion authority, combustion/extraction and professional installation.
Electric / induction cooking	Select the actual technology, supply version and cooking equipment for the brief.	Exact electrical service, heat/clearance and cookware/operating requirements; a changed fuel choice is a system change.

Bosch’s HII8057U sheet distinguishes its overall range envelope from its cutout and identifies a fixed electrical connection. These are attributes of that U.S. model, not a universal range opening or supply. Its sheet also defers final cutout data to installation instructions. [T07]

The named range Use and Care Manual separates complete installation information from operating guidance and requires the supplied anti-tip bracket to be engaged. A freestanding appearance does not mean restraint can be omitted; the actual installation detail governs. [T08]

Ducted and recirculating hood offers are different packages



A selected airflow path must remain continuous through the actual enclosure and permitted discharge/return arrangement. This is not a duct size, airflow calculation or permission to recirculate a particular cooking installation.

Bosch’s Custom Insert Hoods installation guide 9001604431 distinguishes ducted and recirculating connections. Its recirculation route needs a free cabinet return path and matched charcoal filters; it separately warns about gas-appliance exhausting and local restrictions. [T09]

Offer / condition	Resolved selection
A viable designed exterior exhaust route	Price the selected hood, actual duct/termination/access scope and the project’s ventilation review together.
A proposed recirculating installation	Proceed only where the actual appliance instructions and local review permit it; include the exact kit, return path and serviceable filters.
Cabinet hides the return or filter access	Revise the cabinet or selected system. A blower inside the cabinet does not resolve the blocked path.
Same headline airflow on two offers	Compare the named test/basis and complete installed route; do not infer equal capture, noise or installed airflow.

Preserve the system boundary

The cited guide’s kit and installation restrictions belong to its listed models. This book does not size ducts, make-up air, combustion air or a building ventilation system.

Ventless changes the exhaust route, not every installation condition

Bosch’s U.S. WQB245B0UC page identifies a heat-pump dryer with ventless installation. This is a specific product configuration, not evidence that it may operate in an airtight cupboard or without condensate management. [T05]

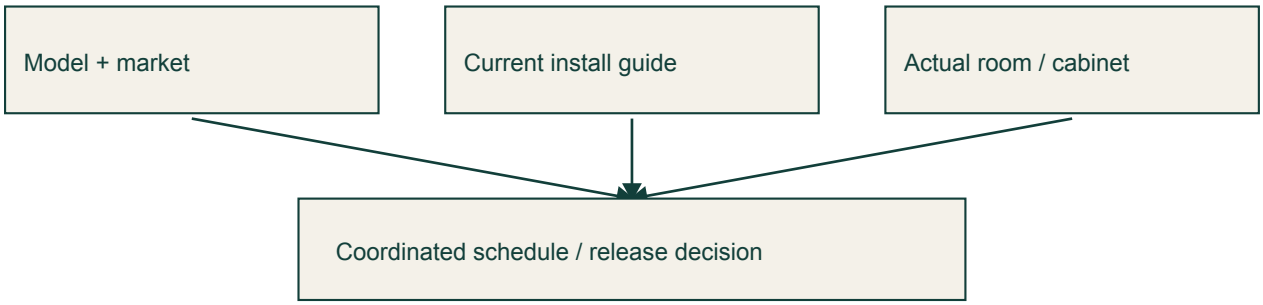
Its User Manual and Installation Instructions 9001941016_B require the specified cabinet ventilation, condensate arrangement and a suitable original connection kit for a supported same-manufacturer washer/dryer stack. They distinguish freestanding and stacked installations. [T06]

Alternative	Choose on this basis
Vented dryer	A documented external exhaust route and actual appliance installation can be provided.
Condensing / heat-pump dryer	The selected ventless model’s room/cabinet conditions, condensate and service access can be met.
Side-by-side washer/dryer	Actual horizontal space and independent access support the required use.
Stacked pair	The exact two models and original kit are compatible, with support and operating/service access resolved.

Resolve the stack mismatch

Two appliances that look the same width are not a verified stack. Change the pair/kit to a documented combination or use an accepted side-by-side arrangement. Six pairs also mean six washers and six dryers, not six interchangeable machines.

Model, market and document revision must travel with the cabinet detail



The actual model and market, its controlling installation record and the finished cabinet detail must agree before release. A change in any branch renews the affected review.

Identity layer	Why it cannot be collapsed
Complete manufacturer / model	A series name or appearance can include different fronts, bodies and services.
Market / variant	Destination supply, connection, labels, service and documentation may differ.
Document and production revision	A readable guide must actually apply to the supplied variant. A later search result is not automatically its controlling guide.
Project specification revision	Connect the selected unit to the current finish/opening/service drawing and quote.
Physical identification	Retain the actual delivered rating plate/serial record in the inspection and handover documents.

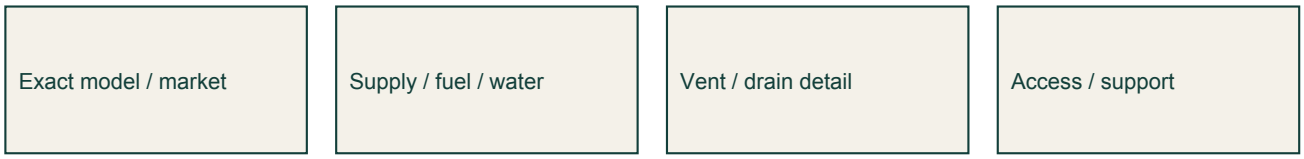
A Use and Care Manual explains use and maintenance; a specification sheet summarizes selected information; installation instructions govern their stated installation scope. The named Bosch range manual makes this separation explicit. A planning sheet is not a substitute for the applicable installation instructions. [T08]

Substitution decision

Accept a replacement model only after comparing front/panel, body/opening, door/access, services, heat/ventilation, intended use, evidence and commercial terms. An unchanged nominal width does not establish equivalence.

Keep service connections accessible within the actual finished assembly

The product and every service interface share the same current document basis



Manual coordination does not authorize electrical, gas or plumbing work

Model/market identity links supply, ventilation/heat, water/drain where applicable and service access. References describe the selected design; this figure gives no connection or engineering instructions.

Interface	Procurement action and output
Electrical / fuel	Record actual nameplate/installation requirements and the responsible design/installation reference; procure the permitted connection configuration.
Water / drain	Include matched fittings/hoses/filters and the actual route, shutoff/access and drain review where applicable.
Vent / heat	Keep the selected air path, surrounding-material conditions and serviceable components in the cabinet drawing.
Cabinet / finish	Coordinate face projection, panel/handle, fillers, worktop, toe/plinth and finished-floor datums.
Support / fixing	Identify actual substrate, level/support and restraint/attachment detail.
Service / removal	Retain reachable service points and a viable route to remove the unit without an assumed demolition step.

A finish revision is a technical change

A thicker backsplash, raised floor, deeper panel or continuous plinth can alter an opening, motion or access. Renew the affected interface rather than treating the change as color-only. A matching plug shape alone does not prove a compatible supply or approved installation.

Compare the same useful task and the same test basis

The European Commission’s dishwasher guide expresses label energy per 100 ECO cycles and water per ECO cycle; its rated place-setting capacity depends on loading according to supplier instructions. A nominal place-setting count is not a claim that every combination of the project’s pots, trays and tableware fits. [T11]

Comparison	Correct decision basis
Dishwasher capacity	Actual loading arrangement and program/test basis, not a room count alone.
Refrigerator / oven volume	Definition of volume, useful shelves/interior envelope, compartments and the actual task.
Washer / dryer capacity	The stated program/load basis and actual textile workload; washer and dryer numbers are not automatically interchangeable.
Energy / water / cycle time	Same market, product category and test/use basis; preserve cycle mode and units.

The FTC explains that U.S. EnergyGuide values are based on DOE test procedures for comparing similar models and that the FTC does not preapprove the labels. An estimated annual cost is not a guaranteed project bill, and an energy disclosure is not complete installation or safety approval. [T10]

Resolve the U.S./EU comparison

Do not rank U.S. annual kWh/cost against EU kWh per 100 ECO cycles as if the numbers shared one denominator. First align the test and use basis; a unit change alone cannot make different procedures equivalent.

Separate energy certification, appliance safety and local installation

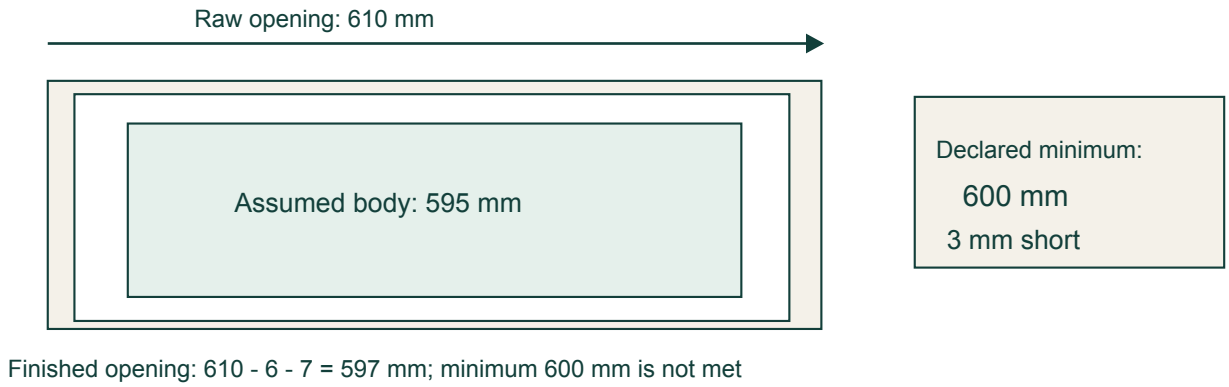
ENERGY STAR describes third-party certification to its product performance requirements and EPA-managed certified model lists. It is distinct from the EnergyGuide disclosure. Match a claimed certification to the exact supplied model/market and current record; neither label certifies the entire kitchen installation. [T12]

Record	What it can support	What it does not settle
Manufacturer installation document	Its stated product/variant and installation conditions.	Local design approval, actual workmanship or commissioning.
Applicable product test/listing	The exact standard, listed construction and report/directory scope.	An unrelated model, modified unit or all destination requirements.
Energy label / program record	Its model, test and energy/water performance scope.	Every safety, use, service or bill-saving claim.
Warranty / service agreement	Actual supplied-market terms, use, parts/labor and authorized service route.	Coverage assumed from a global logo or another country’s offer.

Resolve a low-price import offer

If the destination variant, installation documentation, evidence or service terms differ, treat it as a separate offer. A lower appliance price cannot establish equivalent installed scope or warranty.

A 595 mm body does not resolve a 600 mm minimum opening



Finished opening: 610 - 6 - 7 = 597 mm; minimum 600 mm is not met

Teaching assumptions only: raw width 610 mm, finish layers 6 and 7 mm, finished opening 597 mm, body 595 mm and declared minimum 600 mm. The 3 mm shortfall concerns the selected opening criterion; the drawing is not a product fabrication detail.

Teaching input / calculation	Result
Raw opening 610 − left finish 6 − right finish 7	597 mm available between finished faces
597 mm finished opening − assumed body width 595	2 mm apparent body-only balance
597 mm available − assumed declared minimum 600	− 3 mm against the minimum opening

The two positive millimeters describe a different comparison from the three-millimeter shortfall. The model’s assumed minimum remains unmet. Do not use the body width as the requirement or enter the unfinished 610 mm against a finished-opening minimum.

Resolve the width conflict

Change the permissible cabinet/finish detail or select a documented alternative. Do not remove a required gap, modify the appliance or relax its installation requirement to make the arithmetic green. All dimensions on this page are assumed teaching inputs, not Bosch or NOVARMIA specifications.

Positive height cannot cancel a width or depth shortfall

Assumed criterion; same finished datum and mm	Required minimum	Available	Available − required
Width	600	597	− 3 mm
Height	875	880	+ 5 mm
Depth	560	550	− 10 mm

The opening fails the assumed width and depth criteria independently. Adding the three balances would be meaningless: spare height does not provide missing depth. The workbook therefore keeps each dimension/direction as its own Interface ID.

Assumed revision	Arithmetic conclusion	Remaining decision
Finished width revised to 604 mm	604 − 600 = + 4 mm	Width-only balance; other criteria and installation conditions remain.
Finished width exactly 600 mm	600 − 600 = 0 mm	Zero margin, not allowance for measurement or fabrication tolerance.
Depth retained at 550 mm	550 − 560 = − 10 mm	Still short; a revised width cannot close it.

Minimum-only calculator

A maximum, permitted range, nominal target, diagonal access, tolerance stack or door swing needs separate manual review. The workbook does not invent a minimum from a nominal body dimension or convert unmatched units/datums automatically.

Confirmed project demand is separate from the purchase order

Assume a project needs 24 installed appliances of one exact model and two physical spare appliances. Manual demand is 24 + 2 = 26 Each. Record 26 in Confirmed project quantity (Each) with its quantity-source reference; enter the actual PO quantity separately.

Teaching change	Demand / order consequence
Original 24 installed + 2 spares	26 confirmed Each; actual PO 26 if agreed.
Installed demand rises to 25; keep 2 spares	27 confirmed Each. An unchanged PO 26 is one piece below that plan.
Original PO 26 used for 25 installations	Only one physical spare remains, unless the plan/order is revised.
Six separately defined laundry pairs	6 washers + 6 dryers = 12 machines; retain two model quantities and the actual matched-kit scope.

The workbook does not calculate room counts, maintain installed locations, order kits automatically or synchronize a PO. A kit, filter and complete appliance also cannot be added together as if they were identical Each items. Define what each purchase line includes.

Change the right record

A changed project quantity is not evidence that a supplier accepted a PO amendment. Renew the actual commercial record, delivery plan and affected technical references; preserve the prior revision outside the current register.

Normalize the appliance, accessories and installation scope before comparing totals

Scope group	Align between offers
Appliance identity	Exact model, market, finish/front, production/document basis, quantity and intended use.
Matched components	Permitted panel/trim, fixing/stack kit, filters and actual supply/drain/vent accessories.
Site works	Cabinet/fixing, electrical/fuel/water/drain/duct works and responsibility; distinguish included from separate.
Delivery and acceptance	Incoterm/destination, insurance, handling, route, unpacking, inspection and replacement terms.
Service and handover	Installation, commissioning, actual warranty/service territory, documents and spare parts.

Use a visible reconciliation

For the same model/market, quantity, currency, delivery and tax basis, let Offer A include only appliances and Offer B include appliances plus the required kit and agreed service. Compare A + priced missing kit + priced missing service with B. If either missing amount is unknown, the adjusted A total remains unknown; it is not zero.

A substitution is not a missing-cost line

A different model, front, supply version, intended use or warranty needs a separate technical/commercial decision. A symbolic adjustment cannot prove equivalence between incompatible configurations.

Release technical references before closing the cabinet, then inspect the actual unit

Stage	Input and actual output
Model selection	Chosen model/market, use and complete accessory scope → current model register.
Cabinet / services coordination	Applicable installation record plus finished measurements → referenced opening, access, support and service reviews.
Purchase release	Agreed specification and technical/commercial decisions → actual PO, quantities and delivery scope.
Delivery inspection	Rating plate/serial, packaging, visible condition and completeness → inspection/exclusion record and physical receipt.
Installation / commissioning	Qualified work and actual project test/handover scope → real completion records, manuals and service information.

Allow the delivery route for the actual packed unit and permitted unpacking/handling process, not only the installation opening. Keep transit restraints/protection and installation steps under the actual manufacturer’s instructions. A box count is not evidence of model identity, completeness or readiness to operate.

Handover requires its own evidence

A completed receipt record does not establish safe connections, level/fixing, leaks, ventilation, operational tests or warranty activation. Record the actual installation and commissioning results through the responsible project process.

A replacement increases gross arrivals without rewriting the damaged delivery

Assumed actual order: 26 Each	Received	Accepted	Cumulative accepted / outstanding
Event R1; one excluded unit documented	15	14	14 / 12
Event R2; all eleven accepted	11	11	25 / 1
Replacement event R3; one accepted	1	1	26 / 0

After R1 and R2, gross received is 15 + 11 = 26, but accepted is 14 + 11 = 25. The order is still one acceptable piece short. With R3, gross received becomes 27 and accepted becomes 26; the first excluded unit remains in the inspection history.

The replacement must match the actual model/market/revision and inspection requirements. Correct quantity alone cannot accept a wrong electrical version, damaged finish, missing accessory or model substitution. Log each physical arrival once under a unique event ID.

Keep the accounting boundary

This workbook records arrivals and acceptance, not returns, refunds, installation allocation or serial inventory. If an earlier acceptance must be reversed, retain the separate correction/return record and reconcile the actual history rather than overwriting an exclusion to hide it.

Model Schedule: exact identity, confirmed quantity and technical references

The companion XLSX has three worksheets and six work areas, with 50 records per work area. It provides a current-model register, minimum-opening arithmetic with reference checks, and physical Each receipt reconciliation.

Work area / header row	Actual fields and purpose
Model Schedule / 7	Model ID; Exact manufacturer / model; Market / variant; Specification revision; Current installation document reference; separate Body size and Required opening source references; Confirmed project quantity (Each), Quantity source reference and Quote scope reference.
Model Schedule / 67	Model ID/current revision; Service connection, Vent / heat, Door / service access and Support / fixing references; human Review decision, Reviewed by, Review date and Review record reference.

Use one Model ID for one exact model and market variant. Enter the manually confirmed 26 Each example with its source; blank means unknown, while a deliberately confirmed zero is valid. An actual positive purchase quantity belongs in Receipt, not in a substituted project-total formula.

Current record, referenced history

The workbook is not a revision archive or document repository. Keep prior decisions and actual drawings retrievable outside the current rows. Recorded is a human decision with a reference, not engineering or destination approval.

Opening Review: compare supplied minimums on one normalized datum

Work area / header row	Actual fields and purpose
Opening Review / 7	Interface ID; linked Model ID, Market / variant and revision; Dimension / direction; Declared minimum opening and Required unit; Available opening and Available unit; separate Required/Available datum references; Opening requirement, Measurement and Body size source references; Signed balance and Arithmetic state.
Opening Review / 67	Interface ID/current revision, human decision, reviewer/date and Review record reference; manually entered Services / access review reference; its text is matched to the linked Model Schedule technical Review record reference.

For the teaching width row, enter minimum 600 mm and available 597 mm after the manual finish calculation. Record the same normalized finished datum in both datum-reference fields. The signed result is − 3 mm. Separate height 875/880 and depth 560/550 rows return + 5 and − 10 mm.

Units, datums, market/revision and the registered source references must agree. A source ID is a reference-integrity check; its matched text does not prove that the real measurement or manufacturer requirement is correct. A human Recorded entry cannot close a negative balance.

Read the result literally

Zero and positive balance still require review of tolerances, maxima, motion, connections, access and every other applicable condition. No unit conversion, whole-appliance fit, electrical/fuel/water/vent design or commissioning is calculated.

Receipt: actual purchase-order pieces and append-only arrival records

Work area / header row	Actual fields and purpose
Receipt / 7	Unique Order line ID, Model ID/current revision, Item / scope reference, Purchase order reference, Ordered pieces (Each), Final delivery declared and calculated received/accepted/outstanding pieces.
Receipt / 67	Unique Receipt event ID, Order line ID/current revision, Receipt date, received/accepted whole Each counts, Damage / exclusion reference or None, Inspection reference and reviewer/date.

Enter actual PO 26 separately from the project plan. Reproduce arrivals 15/14 and 11/11: received 26, accepted 25, outstanding one. Add a real replacement event 1/1 to obtain gross received 27 and accepted 26. Final delivery declared cannot turn excluded goods into acceptable pieces.

Resolve duplicate, missing, stale or inconsistent linked records before relying on the totals. Each line must identify its actual scope; appliances, accessories and complete kits are not interchangeable physical units.

Capacity and testing limits

Each work area has 50 rows. Extending it requires formula/validation/link review. Available-engine functional and export/reimport checks are recorded for this release; native Microsoft Excel was not tested. There is no automatic CAD, supplier, PO or website synchronization.

Working glossary

Term	Meaning in this volume
Body envelope	Actual appliance dimensions on a stated basis, including or excluding defined doors/handles.
Required opening	Manufacturer’s stated installation space and related conditions for the selected model/variant.
Finished datum	Named completed surfaces/levels from which the dimension is measured.
Operating / service space	Motion and access/removal space; different from a closed body envelope.
Panel-ready / factory front	A model designed for a specified furniture panel / its supplied finished front.
Ducted / recirculating / ventless	Different named airflow configurations, each retaining its own installation conditions.
Model / market / revision	Exact product identity, destination variant and applicable current specification/document basis.
EnergyGuide / ENERGY STAR	A U.S. energy disclosure / a separate performance certification program.
Confirmed demand / PO / receipt	Project plan / agreed purchased quantity / actual physical events and acceptance.

Sources and scope notes

[G01] GEORGE INT'L - George Group China: Building Materials & Whole-Home Solutions

https://georgeintl.com/

Public group appliance route. No appliance model list, supply contract, certification or installation capability inferred; unrelated promotional figures excluded.

[G02] George Group Foshan - George Group Foshan Showroom: Address & Visit Guide

https://georgegroupfoshan.com/george-group-foshan/

Attributed kitchen-showroom photograph with visible appliances and cabinetry. No exact appliance model, test, installed approval or customer project established by the photograph.

[T01] Bosch U.S. - SHP65DM5N: 500 Series Dishwasher

https://www.bosch-home.com/us/en/product/SHP65DM5N

Actual named model is built-in but not panel-ready. Current public product fields only; price, availability, reviews and broad marketing excluded. Final installation guide must match the supplied unit.

[T02] Bosch U.S. / BSH - SHP65DM5N: 24-inch Pocket Handle Dishwasher Specification Sheet

https://media3.bosch-home.com/Documents/25537086_SHP65DM5N_Spec_Sheet.pdf

Body versus cutout and separate model-specific connection/accessory scope. Sheet defers final dimensional data to installation instructions; no hose, pressure, rating or cutout transferred to another model or teaching case.

[T03] Bosch U.S. / BSH - SHP65DM5N Use and Care Manual, 9001960944_A

https://media3.bosch-home.com/Documents/9001960944_A.pdf

Household/similar use versus licensed food establishment and separate warranty scope. Use/care document, not installation instructions; no full NSF/ANSI standard read or commercial-use approval inferred.

[T04] Bosch U.S. / BSH - B36CT80SNS: 36-inch Counter-Depth 3-Door Refrigerator Specification Sheet

https://media3.bosch-home.com/Documents/MCDOC03224079_B36CT80SNS.pdf

Different depth definitions, operating versus drawer-removal position and ventilation scope. No cross-document depth fusion or dimension transfer; final installation data must apply to the supplied unit.

[T05] Bosch U.S. - WQB245B0UC: 500 Series Heat Pump Dryer

https://www.bosch-home.com/us/en/product/WQB245B0UC

Actual named dryer type; not a general laundry installation claim. Price, availability, noise, efficiency, capacity and service promises not adopted as group specifications.

[T06] Bosch U.S. / BSH - WQB245B0UC User Manual and Installation Instructions, 9001941016_B

https://media3.bosch-home.com/Documents/9001941016_B.pdf

Model-specific cabinet/ventilation, condensate and supported washer/dryer stack requirements. Relevant installation sections read, not every operating chapter; no clearance, ambient, kit or supply value transferred. URL accessibility does not make this a 2026 manual.

[T07] Bosch U.S. / BSH - HII8057U: 30-inch Induction Slide-in Range Specification Sheet

https://media3.bosch-home.com/Documents/19837391_HII8057U%20Spec%20Sheet.pdf

Named model differentiates overall envelope, cutout and fixed connection. Search metadata may reflect an older copy; actual opened PDF footer recorded. No breaker, supply or clearance adopted as a project design.

[T08] Bosch / BSH - Induction Slide-in Ranges Use and Care Manual, 8001290358_A

https://media3.bosch-home.com/Documents/8001290358_A.pdf

Use versus installation document roles and named anti-tip engagement requirement. Relevant English safety/use sections only, not all models or full installation instructions; no electrical installation or fixing recipe reproduced.

[T09] Bosch / BSH - Custom Insert Hoods Installation Instructions, 9001604431_A

https://media3.bosch-home.com/Documents/9001604431_A.pdf

Named ducted/recirculating routes, gas/local restrictions and matched charcoal-filter/accessory scope. No duct diameter, airflow, mounting, electrical or make-up-air design supplied; no universal permission to recirculate.

[T10] Federal Trade Commission - EnergyGuide Labeling: FAQs for Appliance Manufacturers

https://www.ftc.gov/business-guidance/resources/energyguide-labeling-faqs-appliance-manufacturers

DOE test basis, comparable models and no FTC label preapproval. Dated public explanatory FAQ; not a full read of Part 305 or current product threshold/directory check; no bill or safety guarantee.

[T11] European Commission - Dishwashers: Energy Efficient Products

https://energy-efficient-products.ec.europa.eu/product-list/dishwashers_en

EU dishwasher label units, program and capacity definition. Public overview only, not full underlying regulations; no direct equivalence with U.S. annual tests or project energy saving.

[T12] U.S. EPA / ENERGY STAR - ENERGY STAR Certification

https://www.energystar.gov/about/how-energy-star-works/energy-star-certification

Separate product performance program and model-specific evidence. No individual supplied-model directory verification performed; no electrical/gas, installation or whole-kitchen approval inferred.

Photo credits and illustration scope

Cover: George Group Foshan kitchen-showroom photograph, from its published showroom asset. Cabinetry, built-in cooking appliances and a cooktop are visible. The image does not establish the model, destination version, testing, permitted integration or a completed customer installation. [G02]

The authorized image record describes proportional WebP conversion with no content edit. This task copied the actual image unchanged, verified its hash and visually inspected it. Earlier processing history is not an independent authenticity or installation audit.

Five original diagrams explain operating/service envelopes, an airflow relationship, the model/document/cabinet chain, service interfaces and the assumed finished-opening conflict. The teaching diagram uses expressly assumed dimensions; none is a manufacturer drawing, measured project, installation approval or calculated ventilation design.