
Volvo Retail Sustainable Experience (VRSE) Showroom Concept

Outline Specification - New Build Generic VRSE Concept VCI Equivalent (VRSE) Specification

Version no.
9

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Volvo Retail Sustainable Experience [VRSE] Showroom Concept

VRSE Concept:
Republic of Ireland
Equivalent (VRSE) Outline Specification

for Greenfield NEWBUILD Developments / Major Refurbishment Projects

Issue No. – Version 9
Issue Date: October 2026

Version Control; Rev 0 summary;

- Sustainability considerations and accreditation – **annotated in blue**
- Builders Work In Connection – **annotated in red**

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1 General

This outline specification is intended to summarise the scope and materials of the Volvo Car Ireland VRSE Concept as value-engineered and adapted for the local market.

This specification refers Newbuild works on greenfield sites or major refurbishments only.

This is neither a definitive nor a complete specification for the works and remains subject to detailed design. However, design, materials and workmanship must be in accordance with and comply with, the following:

- Volvo Ireland VRSE Sales and Aftersales Datasheets, which can be found at <https://www.vci.medastandards.com>
- Relevant Irish Building Standards, Codes of Practice, Regulations and to the satisfaction of the Building Control inspectors
- Local Authority planning conditions
- The published recommendations of the CIBSE and the IEE Regulations current at the time of construction
- This outline specification is to be read in conjunction with the Green Design Pack ('GDP') prepared by our partner 'Meda' as part of the 'RAG (Red, Amber and Green) feasibility design process'
- Please note that only the 'GDP' indicates an Approved Scheme as design intent – it should not be deemed construction information
- Additional copies of this document should always be downloaded from <https://www.vci.medastandards.com> to ensure you have the current version.

1.1 Works Description

The proposed VRSE developments consist of Newbuild automotive retail facilities with associated 'Sales', 'Aftersales' and 'Back of House' (staff) accommodation with associated external works, consisting primarily of:

Ground Floor – 'Sales' and 'Aftersales' Front of House:

- 'The Street' - Car display, Car Delivery Bay and Sales Consultation areas
- 'The Living Room' – Lounge seating, Clean Water Station/Refreshments island unit, Host and Service Receptions, Lifestyle shop and Your Car Studio
- "Aftersales Support" – Service Support office, ASM office, Workshop viewing window
- 'Circulation' - Administration, Consultation Rooms, Management offices and Customer amenities.

Ground Floor – 'Aftersales' and 'Administration' Back of House
(defined as staff-only areas):

- Workshop - including VPS, EV and battery bays, Tyre change and balance, Valet
- Workshop ancillary - including Tool Storage, Equipment Store, Battery lift and Unit Repair
- Parts Department – Parts store, Overnight drop, dispatch, pre-pick and waste

- Workshop amenities – Technicians lockers, Key safe, Canteen, staff amenities.

First Floor “Mezzanine’ Back of House (where applicable - defined as a staff-only area):

- Staff lockers and Technician’s facilities, Staff toilets and Kitchen / canteen
- Sales and Administration offices, Meeting rooms, F&I offices
- Parts and Archive storage
- Comms and plant areas.

The development site also consists of associated Volvo ‘Selekt’ used vehicle display, customer, demonstrator display, staff, service and stock parking provision as well as signage and landscaping to prescribed areas.

1.2 Brand Guardian Monitoring

Volvo Car Ireland (‘VCI’) are obliged to carry out regular inspections to ensure Retailer Developments are complying with the agreed VRSE scope and specification.

1.2.1 Feasibility RAG (Feasibility Drawings and Design Pack preparation):

VCI will arrange a site feasibility process to assist the Operator in assessing the volume-based opportunity for the facility (‘Greenfield’ {‘Newbuild’}). The RAG Process follows a traffic light system of:

- Red Stage - an initial briefing meeting requiring existing CAD plans (Brownfield), site information, boundaries, easements and topography, etc.

The output is an initial schematic plan with photography, showing customer arrivals and orientations of the main external elevations, etc. with indicative £/m2 estimate of the construction cost where requested by VCI.

- Amber Stage - an exchange of comments and proposals on Red scheme drawings and a follow up meeting to agree the preferred outcome.

The output is developed plans with internal layouts and elevations and internal fixture, furniture and aftersales layouts illustrating the proposed application of VRSE - along with the updated cost estimate and elements summary of your preferred solution where requested by VCI.

- Green Stage - a final application of Amber comments in the concluding document.

The output is finalised plans with internal and external elevations forming the binding Green Design Pack (GDP).

NB: Meda cannot issue CAD format design intent drawings from scanned information, unless the GDP is based on initial CAD plans provided by the Operator.

VCI operate an internal approval process submitting every VRSE proposal to the in-house Management team with escalation as deemed necessary to VCC (Sweden) – comments from either parties must be incorporated before final approval of the Green stage is confirmed. Only the Management team at VCI can authorise deviations after the Green stage.

1.2.2 Construction Stage Project Monitoring

Post the RAG process' conclusion, VCI will arrange for Meda to remain available to the Operators' team and assist in the application of the VRSE information in the design development stages – this will involve regular scheduled meetings with on-site progress monitoring undertaken as required – Meda are supported by Scanplan locally and all progress and/or requests will be reported back into Meda.

This Brand Guardianship ('BG') role and the terms of reference will be as follows:

- Design Stage

The Volvo GDP and Outline Specification is 'design intent' and must be worked up into construction information in accordance with all VRSE guidance information. The Brand Guardian is to assist and ensure the design team has correctly interpreted this information and offered it in contract detail for approval.

- Planning Stage

The scheme design must be submitted to 'BG' for approval prior to submitting a Planning Application. Similarly, signage should be indicatively shown and is subject to separate Advertisement consent by the signage provider once the Architect has agreed a suitable scheme detail with them.

Planning must not be submitted without 'BG' Stage approval.

- Design and Tender Stage

The scheme design information and tender documentation should be submitted to 'BG' for approval prior to submitting to the market. Similarly, any prequalification of tenderers or suppliers or the ultimate tender list should be shared with the 'BG'.

The output at this stage should include in the minimum:

- comprehensive plans, sections and elevations
- internal wall set out
- stairs, roof and external works
- finishes, plans and schedules
- NBS or site specific specification
- detail sections of external walls, entrances, windows, and offices

- garage equipment supplier detailed design and equipment specification
- Curtain Walling Designs.

It should also include M&E details and a lighting design proposal by the approved suppliers which should also include internal and external lux plots and with a co-ordinated, reflected ceiling plan.

See Suppliers Appendices for details.

A sample of a typical project Master Drawing Issue sheet is included in the Supplier Appendices and the 'BG' expectation is that these are the minimum details that should be presented for approval.

- Construction Stage

The subsequent Contract Information and Subcontract Design Development must be shared with the 'BG' and the first audit should be no later than 3 months after award, and then at such necessary intervals thereafter.

Regular reporting should be made to the 'BG' and include progress along with summaries of alternate materials, subcontract proposals and summaries of design revisions.

The 'BG' and a member of VCI should be invited to attend progress meetings.

The output at this stage should include details of subcontractors and their scheme drawings, verification of mandated supplier orders, approval of any alternate material or proposal, and Progress reports.

- PC and Handover Stage

The scheme as-built details are to be submitted to 'BG' for the record and attendance at PC inspections should be requested with minimum of 15 day's notice.

The output is as-built information, maintenance recommendations and an invitation to attend induction and Operators' handover sessions.

- Compliance

The 'BG' will produce a drawings log and comments tracker at each stage, with a compliance status check which will log VCI approvals and flag any non-compliant deviations.

If at any of the above stages non-compliant issues are not cleared by VCI, **the project will be reported as 'at risk' to VCI as unlikely to pass an external audit of the brand standards.**

- Summary

The 'BG' scope is intended to assist the Operators' team and mitigate the potential of costly, late changes to align construction works with the specification retrospectively.

The BG has no contractual authority and can only advise the Operators' team on design deviation, acceptable alternate materials or VRSE compliance issues.

It should be noted however, that if this process is not fulfilled then the value of the BG support can't be ensured. Moreover, if Operators' choice of programme or process becomes protracted in any stage – for re-design or alternate procurement options for example, then additional time and meetings requiring BG support will be recorded and passed to the Operator as additional cost to VCI requiring reimbursement.

1.3 Design Development

Irrespective of the process set out above, it remains wholly incumbent on the Operators' team to produce a site specific design and floor area solution, based entirely on the 'GDP' design intent produced.

The Operators' 'GDP' constitutes the VCI Management Team Approved scheme. Operators' design development must comply with it and the plan, adjacencies, finishes and fixtures associated with this scheme throughout the entire process as stipulated by the 'BG' process - all of which are subject to VCI Management Team approval at each stage.

If changes or amendments become required during the process, the 'BG' meetings provide the opportunity for these to be presented for review and consideration.

In the absence of these approvals, the project will be deemed 'progressing at risk' and the retrospective reinstatement of compliant material or detail will be entirely at the Operators' risk.

2 Building Works

This Outline Specification generally refers to 'Greenfield' ('Newbuild') developments or significant 'Refurbishments'.

The Outline Specifications set out here are distinguished between:

- Sales areas - all public spaces and those used and in view of customers
- Aftersales area - including the Workshops that are visible to customers
- Back of House areas - all other staff-only offices and facilities.

The VRSE requirement should be demonstrated by the preparation of a specialist "embodied carbon calculation" at the conclusion of the design development stage to be submitted for VCI comment.

This assessment is to be underpinned with a suitable sustainability calculator (if not prescribed as a Planning condition) which may include:

- BREEAM – Design stage pre-assessment
- LEED accreditation.

2.1 Sub-structure and Ground Floor Slab

Site obstructions are to be removed completely and site to be excavated to reduced levels to suit new construction with all contaminated materials in arisings removed from site in accordance with related regulations.

Foundations to the frame will be designed by the Structural Engineer to suit the ground conditions. This is assumed to be pad and beam substructure to average 1,500mm deep. Driven piling or vibro compaction to secure ground stabilization if required, is to be logged as a site abnormal cost.

The ground floor will comprise a reinforced concrete ground bearing slab with sub-base, all designed to the Structural Engineer's specification.

Suitable entries for utilities will be accommodated in the foundations and ground slab in accordance with the supply utilities and drainage requirements.

Similarly, all services below slab in suitable ducting including for floorbox locations.

The aftersales floor slab design is to account for workshop equipment, recesses and in ground ramps (by Volvo specialist), ducts and protected edges all to manufacturers' recommendations.

The substructure design should endeavour to maximise Sustainability criteria with suitable insulation layers etc.

See BWIC Section 5.6 and 5.7. Engineers' design and calculations to be submitted for approval.

2.2 Structural Frame

The superstructure frame will be designed by the Structural Engineer to suit the loadings required. This is assumed to be structural steel frame including glazing support rails, secondary trimming steel to openings and all necessary connections.

The superstructure frame at the main curtain wall glazing should comprise only one horizontal midrail with underside at 2,400mm high. It should also allow for head restraint at the top of the glazing endeavouring to keep the bulkhead recess free of structure and open for unrestricted access to the head of the glazing for cleaning, vinyl film installation and repairs – recess min 1,200mm wide to back of mullions.

The steel frame will be fire protected – all internal, exposed steel finished to RAL 9003 Signal White or equivalent PPC reference.

2.3 Upper Floors

Mezzanine floor levels will be ‘metal deck’ formed, in-situ reinforced concrete with its own subframe (on footings through the ground floor slab).

Mezzanine may need to be a suspended or cantilevered structure to avoid any columns impacting The Street or Living Room spaces – Living Room to be an open plan space free of columns.

Engineers’ design and calculations to be submitted for approval.

2.4 Roof

The roof will comprise a proprietary composite insulated system – ideally a low pitch specification to remain concealed below parapet walls. Sample products or equal approved can be;

‘Kingspan KS1000 DR LPC EcoSafe’ roof cladding panels or similar.

or

Euroclad built-up roofing system, laid in accordance with manufacturer’s recommendations.

[The roof design should include due consideration for PV panel load and fixings plus access for maintenance where applicable – see Section 3.2.10.](#)

Rainwater system will comprise integral gutters set within parapets to conceal the roof pitch from view.

Gutter overflow, “tell-tale” or protruding outlets are not permitted in front of house areas.

Downpipes to be concealed in web of primary steels where possible.

The rainwater design should include due consideration for a Rainwater harvesting system – including flow volume calculations and drainage design where applicable – see Section 4.2.

2.5 Stairs

Front of House Sales and Aftersales

Precast (or reinforced) concrete stairs suitably lined (or polished, off shutter finish) concrete.

Open stringers to be finished with framed glazed balustrading with brushed / satin stainless steel posts and handrails - rails to continue on stairwell walls – final details to Brand Guardian approval.

Closed stringers to be finished with brushed/satin stainless-steel handrails (min. 50mm dia) to Brand Guardian approval.

Treads to be grey ceramic floor tile (FC2) or Tretford carpet (FT2) in tile format, proprietary nosings and white painted MDF skirtings (VS1).

Back of House (or secondary escape)

Precast (or reinforced) concrete stairs or galvanised structural steel stairs.

Parts store stairs - Open risers, tread in chequer plate (FP3) non-slip steel, primed and semi-gloss painted finish; Dusty Grey Ral 7037.

BOH Accommodation stairs – Closed risers, tread in heavy duty carpet (FD3);

Anthracite finish; frame and stringers semi-gloss painted finish;

Dusty Grey Ral 7037.

Proprietary steel balustrading with painted steel posts and handrails - rails to continue on stairwell walls.

2.6 External Envelope

The typical façade will comprise of 1,200mm wide module, vertical full height double glazed curtain wall / cladding.

The curtain wall design should endeavour to maximise sustainability criteria with suitable insulation, U value and solar properties etc. However, glazing G-rating should not exceed 0.4 to maintain a reasonably clear glass colour.

(Solar gain calculations should include the Contra Vision film that will be applied to the inside face – see Section 5.22)

Similarly, the curtain wall design should include due consideration for PV glazing technology where applicable – see Section 3.2.10.

2.6.1 Sales

Curtain walling;

Proprietary aluminium frame, double glazed curtain wall system with 1,200mm wide modular frame width with external caps to be RAL 9003 Signal White, internal mullions to be RAL 9003 Signal White, thermally insulated curtain walling with 6-8mm 'Pilkington' clear glazed, toughened low E, Argon filled cavity glazing.

Note: external caps and internal mullions to the intermediate sections between the primary signage panes will be required to be finished to match the blue vinyl film to avoid white vertical linear sections within the primary sign demise. Details to be agreed with BG.

Framing typically with only one mid rail transom or joint at 2400mm high.

Glazing module at external corners can exceed 1,200mm pane width (not exceeding 1,500mm) to achieve glass to glass external corner joints free of mullions. Sample products or equal approved can be;

- 'Technal MX' pressure plate capped system
- 'Aluminum Solutions' Geode MX52 system
- 'Kawneer' AA100 SSG toggle system

Clear glazing to be filmed in proprietary dot matrix, translucent film on the interior pane (excluding shop window and blue signage areas) – vinyl film supplied and fitted in joint-less sheet widths.

This item is to be supplied by an approved Volvo (VCI) supplier - Gaelite Signs.

See BWIC in Section 5.22 Glazing film

Signage panes (by Gaelite Signs) are to blue vinyl film supplied by Coatek and fitted in joint-less sheet widths (by Gaelite Signs).

See BWIC in Section 5.2 Signage

Drip tray to be fixed to the horizontal transom between the customer entrance and Entrance Portal (see below) – to be finished to RAL 9003 Signal White – final detail to be approved by Brand Guardian.

Shop Window

Proprietary frameless, jointless, double glazed 12mm leaf clear glazed, toughened, low E, low iron, Argon filled cavity glazing in single pane (to nearest, full 1,200mm wide module of glazing over).

Size 6,000 x 2,400mm high overall (see internal lining in Section 2.8.1)
or

single-glazed, solid, jointless panes are acceptable if SBEM can accommodate heat losses.

Pre-contract H&S plan to inform contractors of weight and lifting conditions

Cladding;

Where indicated within the Green Design Pack external elevations on Sales elements may include Proprietary 1,000mm wide insulated composite cladding system, vertically fixed on cladding rails, finished to RAL 9006 White Aluminium.

Panels should be in non-combustible core, fitted full height with and no horizontal cuts nor joints. Flashings at doors and openings to be in matching colour. Corners to be in proprietary formed corners. Sample products or equal approved can be;

- 'Kingspan MR 1,000' micro rib panels
- "Alucobond A2' 1,000mm flat panel (max sheet length 6,800mm)

See Green Design Pack elevations for approved extent of glazing / cladding.

Showroom Entrance Portal

Proprietary Entrance Portal formed with extruded aluminium sections finished to Interpon D2525 – Bleu 2700 Sable – Metallic Fine Texture YW353F with concealed integral flat roof and rain water drainage, LED lighting to front and rear reveals with Opal Acrylic Lens – supplied and installed by Volvo specialist including Opening Hours sign on acrylic plaque to internal side wall (portal and sign by Gaelite Signs).

See BWIC in Section 5.21 Entrance statement & Shop Windows

(FD2) Contractor to include external scraper mat comprising aluminium frame with black rubber insert to external extent of entrance in recessed concrete plinth. Mat-well edging in proprietary recessed frame set in concrete. Sample products or equal approved can be;

- "Emco Diplomat Original with rubber insert and black brush strip'
- "Emco" Diplomat Marschall with rubber insert and black brush strip where entrance is shared with vehicle access
- "Forbo Nuway Tuftiguard Plain" 12mm open
- "Forbo Nuway Tuftiguard Plain" HD 17mm open where entrance is shared with vehicle access

2.6.2 Aftersales**Curtain walling;**

Proprietary aluminium frame, double glazed curtain wall system in 1,000mm wide modules integrated into cladding system, thermally insulated 6-8mm 'Pilkington' clear glazed, toughened low E, Argon filled cavity glazing.

Framing typically set into cladding above VPS wall height at 2,400mm high with trimming steel connected to the frame. Sample products or equal approved can be;

- 'Technal MX' pressure plate capped system
- "Aluminum Solutions' Geode MX52 system

External caps to be RAL 9006 White Aluminium, internal mullions to be RAL 9003 Signal White.

Cladding;

External elevations on aftersales elements can be in matching proprietary 1,000mm wide insulated composite cladding system, vertically fixed on cladding rails, finished to RAL 9006 White Aluminium.

Panels should be in non-combustible core, fitted full height with and no horizontal cuts nor joints. Flashings at doors and openings to be in matching colour.

External Aftersales cladding should match height of elevations to Sales and may require parapet for matching, straight eaves line. Corners to be in proprietary formed corners and “top hat” details at irregular vertical joints. Sample products or equal approved can be;

- ‘Kingspan MR 1,000’ micro rib panels
- “Alucobond A2’ 1,000mm flat panel (max sheet length 6,800mm)

See Green Design Pack elevations for approved extent of glazing / cladding.

All maintenance and cleaning to the façade will be achieved by high pressure water jet (as per manufacturer’s recommendations).

2.7 External Windows and Doors

2.7.1 Sales

Vehicle entrance (Showroom access) doors – inward opening folding stacking, top hung or sliding door in 1,200mm leaves - with clear glazed sections. Clear glazing to be filmed in proprietary dot matrix translucent film to match 1.2m showroom glazing treatment. Stiles and frames to be RAL 9003 Signal White externally and internally. Access doors within the Car Delivery Bays will require any internal visible frames or tracks to be finished to match RAL 9003 Signal White where they are located within cladding. Trimming steel concealed within curtain wall frame or in reveals and bulkheads. Sample products or equal approved can be;

- ‘Solarlux’ bi-fold doors

Pedestrian doors - Clear glazed manual doors and frame with ironmongery as required.

Customer Entrance door - Proprietary single or double glazed leaves of 12mm toughened glass, automatic opening sliding doors. Frameless glazed with PPC proprietary door stiles and frames RAL 9003 Signal White externally and RAL 9003 Signal White internally. Door position to be handed within the portal, keeping minimum 50% of the portal width as a fixed pane (free of sliding leaves) for Dealer Name sign. Sample products or equal approved can be;

- ‘Geze’ automatic sliding doors

Car Delivery Bay/Area vehicle doors – within curtain wall to be matching inward opening folding stacking, top hung or sliding doors in 1,200mm leaves with clear glazed sections. Clear glazing to be filmed in proprietary dot matrix translucent film to match 1.2m showroom glazing treatment. External stiles and frames to be RAL 9003 Signal White, any internal frames or

tracks to be finished to match RAL 9003 Signal White. Where these doors are within cladding elements, they should be in fully glazed segmental shutter door, top hung and trimming steel or frames concealed within reveals and bulkheads. Sample products or equal approved can be;

- "Solarlux' bi-fold doors (in curtain walling)
- "Assa Abloy, Nassau 9000G" glazed segmental shutter doors (in cladding)

Frame colour - Stiles and frames to match external facades PPC finishes of RAL 9003 Signal White or RAL 9006 White Aluminium externally and RAL 9003 Signal White or equivalent supplier reference internally.

2.7.2 Aftersales

Workshop entrance doors - minimum 4,000mm wide x 3,000mm high opening for main doors
- Photo Booth, Smart Repair and Valet Bay entrance doors – minimum 3,000mm wide x 2,800mm high opening, electrically operated or equivalent fast-lift double skin steel roller or high lift shutter door. Door colour in matching RAL 9006 White Aluminium to match cladding or RAL 7037 Dusty Grey.

Workshop doors to include fast lift motor action adequately sized for frequency of operations – and include fully glazed sections, trimming steel and frame decorated RAL 7037 Dusty Grey or RAL 9006 White Aluminium to match 1.0m cladding. Sample products or equal approved can be;

- "Assa Abloy, Crawford OH1042P" industrial insulated shutter doors
- "Assa Abloy, Nassau 9000G" glazed segmental shutter doors.

Cut out 'IR' beams and override switch with barrel bolt manual locking. Induction loop operated both sides.

Pedestrian doors - Steel lined solid core door and frame with ironmongery as required. Wicket doors are not permitted.

Frame colour - Stiles and frames to match external facades in PPC finish.

2.7.3 Ironmongery

All external doors to be master keyed, 5-lever secure mortice locking.

Fire exit doors also serving as Personnel doors to include external locking mortice and lever handle with internal thumb turn – and mounted overhead closer to avoid damage to adjacent cladding (subject to Building Control approvals).

2.8 Internal Walls and Doors

2.8.1 Sales

'British Gypsum' plasterboard stud partition walls formed of 2 skins of 12.5mm board OR a single skin 15mm "Duraline" board, each side taped and jointed suitably for decoration.

All accommodation walls to include sound insulation. Meeting rooms and toilets in particular to have additional soundproof qualities including full height board to soffits and quilt insulated walls to 45dB rating.

Shop Window

Window liner to reveals, cill and soffit to frame showroom "Shop Window" internally supplied and installed by Volvo specialist formed with extruded aluminium sections finished to Interpon D2525 – Bleu 2700 Sable – Metallic Fine Texture YW353F – supplied by Gaelite Signs.

See BWIC in Section 5.21 Entrance statement & Shop Windows

Internal doors

Timber solid core, laminated door in frame and architrave with concealed hinges and ironmongery as required. Doors with exposed HW lip and laminate matt finished to RAL 9003 Signal White.

Frame and architrave colour - white semi-gloss finished to RAL 9003 Signal White.

NB: if regulations require colour contrast, frames can be off-white pending Brand Guardian approval.

Glazed doors

Glazed doors (frameless V1) on recessed floor spring closers with 'hold open' at 90deg. See Glazed Partitions section - 2.9

Glazed door in workshop viewing screen (framed GP1) by exception, can have rebated frame for sound attenuation – see 2.9.2

2.8.2 Aftersales

Timber solid core, laminated door and frame with concealed hinges and ironmongery as required. Door with exposed HW lip and laminate matt finished to RAL 7037 Dusty Grey.

Dispatch doors and Shutters - Parts drop and dispatch to be proprietary metal secure shutters, manually operated and fire linked where required. Ironmongery for secure locking and to facilitate out of hours' access.

2.8.3 Ironmongery

Proprietary satin stainless-steel handles and ironmongery to be approved. Sample products or equal approved can be;

- D-Line Knud Holscher
- D-Line Eisenware

Doors generally to have 135 x 19mm diameter 'Lever Handle L' or 'Pull Handle Straight' 450 x 19mm diameter back-to-back fitted Pull handle.

Independent mortice locking to Dealer security requirements.

Glazed Door to be pre-drilled for matching ironmongery "Pull Handle Straight" 450 x 19mm diameter back-to-back fitted Pull handle.

Glass-to-glass proprietary Lever handle and mortice lock to Dealer security requirements.

All internal doors to have closers and stops etc. Workshop link doors to have kickplates. Doors in fire walls to have viewing panes. final design to be approved

Toilet doors to have coat hook.

All door locks to be master-keyed, mortice locking etc.

All door stops, kick plates, coat hooks, door closers in matching satin stainless steel as per D-Line Knud Holscher collection, D-Line Eisenware collection or equal approved.

Disabled toilet doors to have "Perco" soft close sprung hinge to keep door in closed position.

2.9 Glazed partitions

2.9.1 Sales

Proprietary 'Komfort" or equal approved equivalent glazed office partitioning system.

(V1) Consultation Offices and Sales rooms (Customer-facing) -

Proprietary 'Komfort Polar' or 'PolarTec' frameless, low iron, single-glazed screen system and glass door with ironmongery as required.

Door - full height glazed.

Frame colour - Frameless. Concealed top and bottom (perimeter) glazing channels PPC white finish.

(V2) Offices (Non customer-facing) -

Proprietary 'Komfort Polar' or 'PolarTec', low iron, glazed screen system and glass door in rebated aluminium frame with ironmongery as required.

Door - full height glazed or with matching fixed, glazed over-panel.

Frame colour – rebated PPC white finished to RAL 9003 Signal White.

(V3) Back of House offices (Non customer-facing) -

Proprietary 'Komfort Polar' or 'PolarTec' low iron, glazed screen system in aluminium frame with solid door and ironmongery as required.

Door full height - HW exposed lip and laminate finished to RAL 9003 Signal White with rebated frame and ironmongery as required.

Frame colour – PPC white finished to RAL 9003 Signal White.

(GP2) Screen walls at Car Delivery Bay

Proprietary 'Komfort PolarTec' or 'Polar Vision' frameless, highly transparent extra clear, low iron, glazed screen system, fixed vertically.

Laminated and toughened per installation requirements and include frameless glazed door with ironmongery.

All glazing to front of house offices and meeting rooms to include full length sheers / curtains (supplied and fitted by Volvo Direct supplier) - see Section 2.13

2.9.2 Aftersales

(V1) Service Support Offices / Service Managers Office (Customer-facing) -

Proprietary 'Komfort Polar' or 'PolarTec' frameless, optical white, low iron, single-glazed screen system and glass door with ironmongery as required.

Door - full height glazed.

Frame colour - Frameless. Concealed top and bottom glazing channels PPC white finish.

(GP1) Screen walls between Showroom and Aftersales. ("Viewing window")

Proprietary 'Komfort PolarTec' or 'Polar Vision' frameless, highly transparent extra clear, low iron glass, fixed vertically.

Frameless double-glazed unit for improved sound insulation may also be specified in fixed panes between Sales and Aftersales.

Door, full height glazed. By exception, GP1 window can have a single rebated mullion in matching aluminium frame for maintaining the sound integrity of the glazed pedestrian door in this screen only.

Frame colour – rebated PPC white finished to RAL 9003 Signal White:

Typically fire-rated glazing is required between Sales and Aftersales.

NB: If regulations permit, Aftersales viewing glazing can be clear, non fire-rated glass with fire shutters to Aftersales side, in concealed box sections to Brand Guardian approval.

All glazing to include Manifestation - see Section 2.13

2.10 Wall finishes

Walls generally decorated in matt-emulsion paint RAL 9003 Signal White with the exception of areas indicated within Green Design Packs for The Street / Car Display areas, Living Room areas, Sales Consultants / Workshop Support Offices, Managers' Offices, Consultation Room walls.

Skirtings finished to match.

2.10.1 Sales

(P1) Plasterboard walls decorated in emulsion paint matt, finished to RAL 9003 Signal White.

(P1A) The Street / Vehicle Display / Host Office areas plasterboard walls as indicated within the Green Design Pack to be decorated in emulsion paint matt, finished to RAL 7044 Silk Grey.

Final extent of areas to be agreed with Brand Guardian.

(P1B) Consultation Rooms, Sales Consultants, Sales Managers Offices plasterboard walls decorated in emulsion paint matt, finished RAL 7047 Telegrey 4.

(P1C) Car Delivery Bay / Area plasterboard walls decorated in emulsion paint matt, finished to RAL 7037 Dusty Grey.

Note: face of dropped bulkhead parallel to 1.2 glazing to be painted to RAL 9003 Signal White.

(P2) Painted joinery decorated in gloss paint, finished to RAL 9003 Signal White.

(P2A) Painted joinery to The Street / Vehicle Display / Host Office areas decorated in semi-gloss paint, finished to RAL 7044 Silk Grey. Final extent of areas to be agreed with Brand Guardian.

(P2B) Painted joinery to Consultation Rooms, Sales Consultants, Sales Managers Offices decorated in semi-gloss paint, finished to RAL 7047 Telegrey.

(P2C) Painted joinery to Car Delivery Bay / Area decorated in semi-gloss paint, finished to RAL 7037 Dusty Grey.

(VS1) Skirting in 56mm Timber (or MDF) skirting lacquer or semi-gloss painted white to RAL 9003 Signal White.

(VS1A) The Street / Vehicle Display / Host Office areas skirting in 56mm Timber (or MDF) skirting lacquer or semi-gloss painted white to RAL 7044 Silk Grey. Final extent of areas to be agreed with Brand Guardian.

(VS1B) Consultation Rooms, Sales Consultants, Sales Managers Offices skirting in 56mm Timber (or MDF) skirting lacquer or semi-gloss painted white to RAL 7047 Telegrey 4.

(VS1C) Car Delivery Bay / Area skirting in 56mm Timber (or MDF) skirting lacquer or semi-gloss painted white to RAL 7037 Dusty Grey.

(WT1) Customer toilets - Fiandre 'Fjord' 600 x 300 x 8mm full height wall tile – colour: Grey. Grout colour to be 'Botament' Colour 24. Recommended adhesive: Botagreen Rapid Set Flexible. Tiles to be supplied by Richardsons Ceramics.

NB: if regulations require colour contrast, walls to the Accessible toilet can be alternate colour

contrast tile on opposing walls pending Brand Guardian approval.

Customer toilet walls to have concealed cisterns.

Wall and floor joints to line through where possible

Wall thicknesses to permit all pipework to be concealed within wall. Any access to be via flush plate and/or lockable tiled face access panel with mastic joint in lieu of grout. Details to be agreed with Brand Guardian. Laminated IPS panels are not accepted.

2.10.2 Aftersales

(P1B) Workshop Support Office, Service Managers Offices plasterboard walls decorated in emulsion paint matt, finished to RAL 7047 Telegrey 4.

(P2B) Painted joinery to Workshop Support Office, Service Managers Offices decorated in semi-gloss paint, finished to RAL 7047 Telegrey 4.

(M2) Workshop walls – Marazzi SistemC 200 x 200 x 7mm wall tile – colour: Citta Grey. Grout colour to be Botament Colour 24 (tiles to 2,400mm high). Tiles to be supplied by Richardsons Ceramics.

(P3) Workshop walls above 2,400mm - washable eggshell paint to drylining or fair face blockwork finished to RAL 9003 Signal White.

(M2) Parts Store, Equipment Store and Valet walls - Marazzi SistemC 200 x 200 x 7mm wall tile – colour: Citta Grey. Grout colour to be Botament Colour 24 (tiles to 2,400mm high with the exception of Wet Valet – tiles to full height). Tiles to be supplied by Richardsons Ceramics
OR

(P4) Parts Store walls (board or fairface blockwork) decorated in hard wearing epoxy paint finish to RAL 7037 Dusty Grey (can be to 2,400mm FFL with areas above washable paint finish to match RAL 9003 Signal White).

(P3) Parts and Dry Valet walls above 2,400mm - washable eggshell paint to drylining or fair face blockwork finished to RAL 9003 Signal White.

(P5) Ancillary amenities and store walls decorated walls decorated in washable eggshell paint finish to RAL 7037 Dusty Grey (can be to 2,400mm FFL with areas above washable paint finish to match RAL 9003 Signal White).

(VS1B) Workshop Support Office, Service Managers Offices skirting in 56mm Timber (or MDF) skirting lacquer or semi-gloss painted – colour; RAL 7047 Telegrey 4.

(VS3) Workshop tiled skirting – Marazzi SistemT 200 x 100mm sit-on skirting tile to match workshop floor tile - colour: Grigio Scuro MRVU.

Grout colour to be Botament Colour 24. Tiles to be supplied by Richardsons Ceramics.

(Other) VPS wall assembly comprising stud wall construction taking in obstructions for flush wall 2,400mm high, assembly of the metal panel and shelf racking system,
(Volvo specialist supply only - shelf and Panel system components in grey metal tray panels RAL 7004 Signal Grey; 40 Semi-gloss; Dupont 16-40 finish).

2nd fix electrical to include cut out to panel system and VPS wall to be enclosed all around in painted MDF - 100mm high skirting, 100mm top closer, sloping head closer and end closers - all boxed in sides, head (sloping) and reveals in MDF construction finished to RAL 7037 Dusty Grey epoxy paint or chequer-plate metal-faced MDF skirting to conceal exposed pedestal legs of VPS wall system.

See BWIC Section 5.6 VPS wall panel system.

2.10.3 Back of House

(P1) Plasterboard Walls decorated in emulsion paint matt finished to RAL 9003 Signal White.

(P2) Painted joinery decorated in semi-gloss paint finished to RAL 9003 Signal White.

(M1) Staff toilets – As per specification for customer toilets or 200 x 200 x 6mm, white unbleached wall tile, matt, with white grout.

(M1) Canteen and cleaners splashbacks - 200 x 200 x 6mm white wall tile, matt, with white grout.

(VS1) Skirtings to offices - 56mm Timber (or MDF) skirting lacquer or semi semi-gloss painted white to RAL 9003 Signal White.

2.11 Floor finishes

2.11.1 Sales

The Living Room

(FPC1) Polished concrete floor. High-performance concrete with surface treatment. Local supplier / installer to be approved by Volvo Brand Guardian on submission of sample finish (colour and finish) and technical specification from selected provider.

Note that the surface and structure of the concrete base is critical and that the final specification for the polished concrete finish in terms of material and method of application is therefore dependent on the local site conditions.

Expansion joints – joints preferably between The Street and Living Room area interface as indicated within the Green Pack.

(CA108a/b) Living Room loose laid lounge rug – 2 sizes - colour; Lichen. Rug overlaid onto polished concrete floor, directly supplied by Volvo supplier (by Senab).

(CA109a/b) Living Room loose laid lounge rug – 2 sizes - colour; Sand. Rug overlaid onto polished concrete floor, directly supplied by Volvo supplier (by Senab).

(CA110) Living Room / Consultation Room / The Street loose laid 2800mm dia rug – Icon rug. Rug overlaid onto polished concrete floor, directly supplied by Volvo supplier (by Senab).

See BWIC Section 5.4

The Street

(FPC1) Polished concrete floor. High-performance concrete with surface treatment. Local

supplier / installer to be approved by Volvo Brand Guardian on submission of sample finish (colour and finish) and technical specification from selected provider.

Note that the surface and structure of the concrete base is critical and that the final specification for the polished concrete finish in terms of material and method of application is therefore dependent on the local site conditions.

Expansion joints – joints preferably between The Street and Living Room area interface as indicated within the Green Pack.

(CA107) Consultation Points – where indicated within the GDP loose laid Tretford rugs with whipping to edges – colour; Grey. 3,000 x 3,500mm rug laid over polished concrete floor. Direct supplied by Volvo supplier (by Alliance Flooring)

CA110) Living Room / Consultation Room / The Street loose laid 2800mm dia rug – Icon rug. Rug overlaid onto polished concrete floor, directly supplied by Volvo supplier (by Senab).

See BWIC Section 5.4

Circulation

(FT1) Sales Consultants, Sales Managers' Offices – Tretford Interlife sheet carpet – colour: 572 Milk Chocolate.

The same specification applies to Consultation Rooms only where indicated in the Green Pack that sheet carpet is to be used in lieu of loose laid rug.

(FC2) Customer toilets and internal (non-visible from the showroom) lobbies to be tiled finish - Fiandre 'Fjord' 600 x 600 x 8mm floor tile – colour: Grey.

Grout colour to be 'Botament' Colour 24. Recommended adhesive: Botagreen Rapid Set Flexible - however dependent on substrate alternative adhesive may be required – refer to supplier on all occasions. Tiles to be supplied by Richardsons Ceramics.

Where possible / dependant on degree of visibility from main showroom areas, lobby areas leading directly off the main showroom with no connecting door floor finish to be as follows;

(FPC1) Polished concrete floor. High-performance concrete with surface treatment. Local supplier / installer to be approved by Volvo Brand Guardian on submission of sample finish (colour and finish) and technical specification from selected provider.

See additional notes with 'The Street' and 'Living Room' sections.

(FD1) Internal entrance mat – Anthracite aluminium framed internal matt with black textile brush strips and anodized aluminium recessed edge strip. Sample products or equal approved can be;

- "Emco Diplomat Original with ribbed carpet insert – carpet colour: Anthracite
- Emco Marschall Original with ribbed carpet insert where entrance is shared with vehicle access – carpet colour: Anthracite
- "Forbo Nuway Tuftiguard" Internal 12mm open – ribbed carpet insert colour: Charcoal
- "Forbo Nuway Tuftiguard" Plain HD 17mm open where entrance is shared as vehicle access

(CA109a/b) Car Delivery Bay/area rug – loose laid lounge rug – 2 sizes - colour; Sand. Refer to Green Design Pack for required size. Rug overlaid onto concrete floor, directly supplied by Volvo supplier (by Senab).

See BWIC Section 5.4

All floor junctions of differing finish should ideally be flush abutments – trims only by exception in proprietary edge trim such as 'Schluter Schiene' or 'Schluter RENO-TK' or similar approved minimal brushed stainless-steel edge depending on floor junction requirements.

2.11.2 Aftersales

(FT1) Workshop Support Office, Service Managers Offices - Tretford Interlife sheet carpet – colour: 572 Milk Chocolate.

(FC4) Workshop and associated areas in floor tiles - Marazzi SistemT 200 x 200 x 12mm R9A tile – colour: Grigio Scuro. Grout colour to be Botament Colour 24. Tiles to be supplied by Richardsons Ceramics.

Set out to minimise tile cuts at expansion joints. Cut the tile tolerances in the centre of the VPS bays to retain full tile demarcation bands or at expansion joints to achieve the stated bay widths.

Associated areas include Equipment store and Parts departments.

(FC5) Workshop bay demarcation tile - Marazzi SistemT 200 x 200 x 12mm R9A tile – colour: Panne. Grout colour to be Botament Colour 24.

Tiles to be supplied by Richardsons Ceramics.

(FP2) Stores and Valet bays - 2pack Epoxy floor treatment in non-slip finish to RAL 7037 Dusty Grey.

Sample products or equal approved can be;

- "Monarcoat 720" Colour: RAL 7037 Dusty Grey (from their standard range)

2.11.3 Back of House

(FT2) Staff offices and meeting rooms - Tretford Interlife 500 x 500mm carpet tile – colour: 572 Milk Chocolate.

(FV1) and (VS4) - Stores, Canteens and Tech facilities - 2.5mm sheet vinyl with coved skirting - Colour: 'Grey'.

(FC3) Staff toilets – on ground floor areas where staff toilets are adjacent to customer toilets the specification of the floor tiles is to be the same as the adjacent areas. Where located in back of house areas floor tiles can be an alternate specification to the same quality for approval.

(FD3) Circulation areas – heavy duty barrier carpet finish; Dark Grey

(FV1) and (VS4) - Tech toilets - 2.5mm sheet vinyl with coved skirtings. Colour: Grey.

However, if a tiled finish is preferred this should be as per the specification for staff toilets.

2.12 Ceiling finishes

It is noted that at time of issue Zentia Armstrong had recently filed for administration however stock remains available through existing distributors. Rockfon or similar will be accepted subject to approval by VCI/Brand Guardian.

2.12.1 Sales

The Living Room - Ceilings typically 2,800 to 3,000mm above FFL.

(CS4) Consultation Rooms, Offices (no less than 2,400mm high) - 600 x 600mm RAL 9003 white tile reveal edge, tegular tile. Ceiling grid in white PPC 15mm tee. Sample products or equal approved can be;

“Zentia Prestige” dB Tegular 15 BP7697M

“Rockfon System T15 E” with “Rockfon Sonar dB 41” white tile

(CS6) The Living Room areas - Proprietary 600 x 1,200mm lay in timber ceiling in real wood “Ash” ribs at 20mm thick x 40mm deep and 30mm spacing gap. To be supplied by Exhibition & Interiors (Volvo approved supplier).

Timber batten edges to be concealed within bulkheads. Battens to be cut out and pattressed for recessed light fittings. Timber ceilings to have appropriate fire resistance certification.

NB: E&I are supply only providers.

Ceiling grid in black PPC, 25mm suspended tee.

(P3) Living area soffit behind open ceilings. Ceiling (and all services / ducts) decorated in matt black emulsion paint

or

Black fabric mesh to be stapled to back of battens.

Timber ceilings to be laid with ribs parallel to main approach to avoid views down the length of the ribs (check with Brand Guardian if not clear).

Dropped bulkhead with nominal (max 350mm) horizontal MF frieze as a margin for tolerance can be used to achieve a layout to a full tile. MF frieze to be painted matt finish to RAL 7044 Silk Grey (CS1B) where friezes and bulkheads to the adjoining Street areas are painted to match RAL 7044 Silk Grey (P1A) – where this has not been indicated frieze to match RAL 9003 Signal White (check with Brand Guardian if not clear).

The Street - Ceilings minimum 4,500mm above FFL.

(CS1) The Street friezes and bulkheads - ‘Gyproc Duraline MR or Duraline’ painted MF gypsum ceiling. Matt finish to RAL 9003 Signal White.

(CS1B) Alternate colour for the Street friezes and bulkheads where indicated in the Green Pack

- 'Gyproc Duraline MR or Duraline' painted MF gypsum ceiling. Matt finish to RAL 7044 Silk Grey.

(CS3) The Street - 600 x 1,200mm RAL 9003 white tile reveal edge, tegular tile. Ceiling grid in white PPC 15mm tee. Sample products or equal approved can be;

"Zentia Prestige' Microlook Tegular 15 BP7677M

"Rockfon System T15 E" with "Rockfon Sonar" white tile

(CS1A) Car Delivery bay - 'Gyproc Duraline MR or Duraline' painted MF gypsum ceiling. Matt emulsion finish to RAL 7037 Dusty Grey.

Circulation - Ceilings typically 2,400mm above FFL.

(CS4) Consultation, Offices and Meeting Rooms (no less than 2,400mm high) - 600 x 600mm RAL 9003 white tile reveal edge, tegular tile. Ceiling grid in white PPC 15mm tee. Sample products or equal approved can be;

"Zentia Prestige" dB Tegular 15 BP7697M

"Rockfon System T15 E" with "Rockfon Sonar dB 41" white tile

(CS1) Customer toilets - 'Gyproc Duraline MR or Duraline' painted MF gypsum ceiling, moisture resistant. Matt finish to RAL 9003 Signal White.

Ceiling margins where shown on drawings can provide perimeter for shadow gap insert from walls to achieve full tile ceiling grids symmetrically set out within the room.

These margins should be finished as (CS1) painted MF gypsum ceiling. Matt finish to RAL 9003 Signal White.

2.12.2 Aftersales

(CS4) Workshop Support Office, Service Managers Offices (no less than 2,400mm high) - 600 x 600mm RAL 9003 white tile reveal edge, tegular tile. Ceiling grid in white PPC 15mm tee. Sample products or equal approved can be;

"Zentia Prestige" dB Tegular 15 BP7697M

"Rockfon System T15 E" with "Rockfon Sonar dB 41" white tile

Ceiling margins where shown on drawings can provide perimeter for shadow gap insert from walls to achieve full tile ceiling grids symmetrically set out within the room.

These margins should be finished as (CS1) painted MF gypsum ceiling. Matt finish to RAL 9003 Signal White.

(CT3) Workshop, including Tyre change, Equipment stores and Parts dispatch areas - 600 x 600mm moisture resistant, board tile, clipped tiles throughout. Standard white. Sample products or equal approved can be;

"Zentia Hydrabloc BP3687M"

"Rockfon System T15 E" with "Rockfon CleanSpace Essential" white tile

(CM1) Self-finish u/s of metal deck flooring retained and painted to RAL 9003 Signal White.

Ceilings min standard 4,500mm above FFL free of any obstruction over ramps (unless under mezzanine or stillages).
Grilles under “AmbiRad” style linear radiant heaters or heat sources in white PPC grille to permit radiant heat transfer.

Reinforced ceiling grid with grilles to permit installation of Service drops, exhaust extracts and other ceiling penetrations for Workshop equipment (excludes Valet areas).

2.12.3 Back of House

(CS4) Offices and meeting rooms - 600 x 600mm RAL 9003 white tile reveal edge, tegular tile. Ceiling grid in white PPC 15mm tee. Sample products or equal approved can be;

“Zentia Prestige” dB Tegular 15 BP7697M

“Rockfon System T15 E” with “Rockfon Sonar dB 41” white tile

(CT1) Stores, Canteens and Tech facilities – 600 x 600mm moisture resistant lay in grid system. Standard white. Sample products or equal approved can be;

“Zentia Hydrabloc BP3687M”

“Rockfon System T15 E” with “Rockfon CleanSpace Essential” white tile

(CT1) Staff and Tech toilets - 600 x 600mm moisture resistant lay in grid system. Standard white. Sample products or equal approved can be;

“Zentia Hydrabloc BP3687M”

“Rockfon System T15 E” with “Rockfon CleanSpace Essential” white tile

Board tiles to be clipped where room ventilation doesn’t prevent pressure differentials dislodging tiles.

2.13 Fittings

2.13.1 Reception/Greeter Table recessed Backdrop and Timber Panelled Wall Areas (Vertical Ash By others)

Form pattressed wall with a plug and socket connection (saved lighting circuits for any illuminated wall graphics), switches, panels or devices for the recessed reception/Greeter table backdrop and all timber panelled wall areas to The Living Room formed of real wood “Ash” full height, vertical timber batten feature by specialist.

Allow for pattressing to real wood ‘Ash’ timber framed recess for paint trims display to Your Car Studio area by VCI Specialist (Exhibition & Interiors). Provide for concealed in-wall wood blocking to support wall-mounted digital screens and brackets and power / data connections to digital screen locations.

All wall / ceiling timber panelling to be supplied and installed by VCI Specialist (Exhibition & Interiors).

See BWIC Section 5.3

2.13.2 The Living Room zones and glazed partitions to Consultation Rooms, Car Delivery Bays and Offices

VRSE proprietary curtain sheers ; semi-transparent fabric with natural feel - colour (light natural tone) as per selection for VRSE 'Late Arrival' palette to Consultation Rooms and Offices, Semi-transparent mix of black and silver white threads to Car Delivery Bay / Area and semi-transparent white to divide areas of The Street from The Living Room; pre-ordered and finished to 'as-built' glazing heights or full ceiling heights in The Street with tracks for soffit or wall mounted tracks. Note that tracks within The Street area will require additional pattressing above the ceiling tile to allow for fixing tracks to the suspended ceiling tile. For non-enclosed Car Delivery Areas sheers will be required to be fitted to a motorised track. Tracks and curtains can be supplied by Senab – tracks can be similar approved.

See BWIC Section 5.4

2.13.3 Glazing Manifestation

Glazing (including those treated with sheers / curtains where deemed to be a Building Control requirement) require manifestations to be translucent, semi-opaque vinyl, 2 rows of 40mm dia circle, spaced 120 mm centres at 900mm and 1,500mm above FFL, subject to Building Control regulation.

Excludes framed 'Shop Windows' to the façade.

2.13.4 Fitted Kitchen Units

Kitchenette and Canteen areas to include proprietary wall / sink unit with mixer tap and drainer along with above sink wall storage unit. Carcass to include under counter space for dishwasher and fridge.

Wall unit to have recess over draining board for Zip heater where applicable (see Section 5.15)

2.13.5 Customer, Staff and Tech's WC facilities

Mirrors and fittings – Mirrors – silver backed float glass set in flush with tiled walls – refer to Room Data sheets for location and sizes.

Customer toilets; manual wall mounted soap dispensers with drip tray to be from the D-Line Knud Holscher collection - satin stainless steel finish. Optional built-in wall or countertop sensor soap dispensers to be from the D-Line Qtoo collection - finish to be satin stainless steel.

Operators choice of "Molten Brown" or similar soap.

Hand driers - 'Airforce' or "Dyson Airblade V" or 'Dyson Airblade 9kJ' type hand dryers - satin stainless steel finish.

Paper towel dispensers will also be considered subject to approval – to be from the Knudd Holscher D-Line collection in satin stainless steel. A refuse bin will also be required from the same collection.

Toilet roll holders, flush plates etc – all in satin stainless-steel to match ironmongery finish consistently including pillar taps.

BOH facilities; soap dispensing and fittings at Operators' discretion.

2.13.6 Parts Serving Counters

Worktops to be postformed joinery counter with chequer-plate (or equivalent) protection on serving counters with shutters, fire-linked or lockable to suit fire and security requirements.

2.13.7 Solar Blinds

By exception (and subject to Brand Guardian approval), full height glazed/curtain wall facades affected by low sun or glare can be treated with VRSE proprietary solar backed mesh curtain; in Grey pre-ordered and finished to 'as-built' glazing dimensions with tracks for soffit or wall mounted tracks (by Volvo specialist, Senab).

See BWIC Section 5.4

3 Mechanical & Electrical and Plumbing Services

3.1 Sanitaryware

3.1.1 Sales and Aftersales

Customer toilets - WC and basin suites from a suitable range, white vitreous china sanware, concealed cistern, basin and satin stainless-steel mixer taps.
WC preferably wall-mounted.

Basins with bottle trap concealed in half pedestal. Sample products or equal approved to be;

- "Ideal Standard – Strada II range"
- Strada II WC wall mounted pan T2997(01)
- Strada II Basin 50cm E2386 with matching semi-pedestal.

Single mixer pillar tap in satin stainless-steel finish. Sample products or equal approved to be;

- "Vola" RB1 pillar tap with fixed spout – brushed stainless steel finish
- "Grohe" Atrio deck-mounted pillar tap in brushed stainless steel finish.

Contemporary Doc M pack in matching white vitreous china and satin stainless steel ironmongery including flush plate, rails and wall brackets. Sample products or equal approved can be;

- "Ideal Standard – Concept Freedom range".

Baby change wall mounted nursing unit. Sample products or equal approved can be;

- "Magrini" tip down baby changer.

All pipework (including waste) to be concealed in walls - exposed bottle traps to be chrome-plated.

Customer toilets are preferably separate Male, Female and Accessible.

Where only two are available, these are to be allocated as Unisex / Accessible with Baby Change and Female.

Customer toilets are not to be shared with Dealership staff facilities.

3.1.2 Staff Areas

Staff toilets - WC and basin white vitreous china sanware, basin and satin stainless-steel single mixer pillar tap.

Tech Toilets - WC and basin range 'Armitage Shanks' white vitreous china. Urinal 'Acorn Thorn Apinox – 064' flushing trough urinal 1,600 x 500mm with integral cistern, wall mounted.

Wash trough (Tech toilets and Workshop) - 'Armitage Shanks HTM64 (SU H)' first scrub-up trough 1,600 x 500mm with 'Marwik' in-wall mounted thermostatic mixer single elbow lever tap (x3) - located at access points to Workshop Support office and Tech facilities.

Cleaners Sink - 'Armitage Shanks Adler' cleaners sink with high splash-back and bucket grating in white vitreous china with 'Alternia Quadrant' lever handles taps.

Shower units - 'Kohler Mira Zest' electric shower, tray and cubicle folding door.

Kitchenette and Canteen - to have mixer tap and single bowl sink with drainer.

3.2 Electrical Installation

3.2.1 Mains incoming Electrical

The incoming electricity service shall be located within an electrical services cupboard and will be sufficient to allow for the full load capacity of all plant, lighting and general services units for all external services including EV charging.

The main and local distribution boards shall be similarly located in an intake / metering or plant room space. The workshop services MCB distribution board shall be provided and installed locally to those areas.

'Merlin Gerin' type MCCB and MCB distribution boards.

A network wire basket cable support system shall be provided within the ceiling voids of the car showroom and offices. Metal rigid cable tray or Snakeway containment systems shall be provided from the telephone and data communications cupboard to run at high level above the ceiling where fitted throughout the building 'Marshall Tufflex Snakeway' system for data cabling.

3.2.2 EV Charging

In calculating the size of the electricity supply requirements, allowance should be made for the installation of;

Externally;

- Customer parking – 1 x 22kW. Shared bays can have dual head posts
- Customer parking – 1 x 175kW DC charger – accessible in customer parking areas during opening hours, shared bays can have dual head posts
- Demonstrator parking – 2 x 22kW. Shared bays can have dual head posts
- Workshop WIP parking – 4 x 22kW. Shared bays can have dual head posts
- Software download (WiFi) – 5 x 13Amp. External IP rated power sockets
- Staff and Selekt used display - Operators' option

Internally;

- Workshop Traditional bay for EV / Battery service – 1 x 22kW single charger (counts as 1 of the 4 required above)
- Car Delivery bay (enclosed) – 11kW per delivery bay
- Showroom – dummy chargers do not require live feed

Suitable containment, cable tray, trunking and below ground ducts, shall be installed from a dedicated distribution board with suitably rated protection devices for EV chargers. Suitably sized cables shall be run from the dedicated distribution board to each EV charger to facilitate installation and commissioning (by Volvo specialist supplier).

EV Charger units are direct supply by others -
See supplier Appendix and BWIC - Section 5.21

3.2.3 Lighting

(Design and supply of fittings by Volvo approved suppliers: either Erco UK / Ireland or iGuzzini UK / Ireland (both suppliers with local ROI support)

3.2.3.1 Sales and Aftersales

'Generic' non site specific lighting schemes by both suppliers have been developed and approved specifically for the VCI VRSE schemes. The following is a summary of the requirements however reference must be made to the generic lighting schemes for a more detailed specification of required fitting types, CRI, output and colour temperature.

For the purpose of the lighting design, the Showroom shall be considered as three distinct areas (A – C):

- (A) The Street - Car Display
- (A2) The Street - Consultation Areas (under high ceiling)
- (B) The Living Room (under high ceiling)
- (B2) The Living Room (under lower timber ceiling)
- (C) Circulation - Toilets and Offices
- (D) Workshop Lighting
- (E) Other.

The lighting requirements for each area shall be as described below.

In addition, the showroom may require perimeter lighting at high level adjacent to the glazing to provide a consistent external appearance to the glazed cladding - only in circumstances where excessively deep bulkheads might 'shadow' the glazing e.g.; Car Delivery Bay. Specific details to be agreed with Brand Guardian.

The Street is to remain on after dark and consistently illuminate the glazed cladding including the blue Block-marque and the Shop Window displays with variable circuits and time clock control for night-time settings.

LED lighting shall be provided by VCI approved suppliers iGuzzini or Erco - as specialist design based on VRSE LED concept lighting (see Suppliers Appendices). All fittings referred to within the following section are to be treated as general descriptions – specific schemes / specifications to be provided on a site-by-site basis based upon the approved VCI VRSE generic lighting proposals.

All LED lighting environmental performance requires that fittings are EMC certified, have 'Macadam Ellipse' of less than 2 and L80/B10 ratings of longevity. All luminaires to achieve CRI 90 as a minimum.

Light fittings shall generally be white finish with exception of The Living Room, white bezels and dimmable to comprise the following:

(A) The Street - Car Display

- The Street (car display areas) shall allow 4 to 6 spotlights per vehicle to provide and average level of illumination of not less than 1,200lux on the vehicle measured at 850mm above finished floor level (AFFL)
- The lighting shall be designed to give a rapid drop off in the level of illumination immediately adjacent the vehicles
- Fittings - generally circular downlight, max 200mm dia, with white colour bezel
- Fittings; directional recessed downlight
- Colour temperature shall be 4,000K to vehicles only – all others to be 3,000K
- Typically to specialist supplier design.

(A2) The Street - Consultation Areas (under high ceiling)

- The lighting shall be designed to give an average level of illumination across the sales desk areas of not less than 500lux at desk top height
- Fittings - generally circular downlight, maximum 200mm dia, with white colour bezel
- Fittings; directional recessed downlight
- Colour temperature shall be 3,000K
- Typically; to specialist supplier design.

(A3) The Street - Car Delivery bay (enclosed)

- The lighting shall be designed to give an average level of illumination across the Car Delivery Bay vehicle to provide and average level of illumination of not less than 1,200lux on the vehicle measured at 850mm above finished floor level (AFFL)
- and to give an average at the Car Delivery Bay consultation area of not less than 500lux on the vehicle measured at 850mm above finished floor level (AFFL)
- Fittings; Car Delivery Bay vehicle - directional recessed downlight
- Colour temperature shall be – 4,000K on the vehicle and 3,000K to all other areas
- Typically; to specialist supplier design.

(B) The Living Room

- The Living Room spaces' Offices shall be 500lux at desk working plane
- The Clean Water Station/ Refreshments island and Living Room areas shall be 300 - 400lux
- Allow for ceiling rose and circuitry to suit large and small suspended pendants lights to Lounge areas (fittings supplied by others – see Section 5.4)
- The Consultation Areas shall be 500lux at desk working plane
- Fittings; recessed downlights

- Colour temperature should be 3,000K
- Typically to specialist supplier design
- Fittings in timber slatted ceilings generally recessed downlights in rectangular recessed box sections all black. Depending on selected supplier of fittings / fitting specification. timber batons may require to be cut out for recessed fitting, black-finished bezel to be flush with timber ceiling.

(C) The Circulation – Toilets and Offices

- The Circulation space shall be 300 - 400lux
- The Consultation areas shall be 500lux at desk working plane
- Fittings; recessed downlight
- Colour temperature should be 3,000K.
- Typically to specialist supplier design
- Fittings in general – circular, recessed downlight, max 200mm dia, with white colour bezel in ceilings.

(D) Workshop Lighting

- Workshop lighting shall be recessed sealed LED fittings with average luminance of 750lux at 850mm AFFL– with not less than 1,000lux at car bonnet level.
- Fittings; recessed downlights
- Colour temperature should be 4,000 - 4,200K. The lighting shall be switched and controlled from a central switch control position.

(E) Other

- Emergency lighting within this fitting arrangements as required.
- External Hero display car uplighting – see 4.1.3

3.2.3.2 Back of House

Luminaires to offices and corridors shall be LED panels or recessed downlights. Offices shall be no less than 500lux at a working plane of 850mm.

All offices, meeting rooms, toilets and general circulation spaces shall be controlled by PIR movement detector or absence detector.

Parts storage area, overnight drop bay and parts counter shall have LED batons of no more than 1,500mm length.

Dry Valet and Smart Repair shall be illuminated employing suitably IP rated sealed 1,500mm LED batons mounted at 1,750mm above finished floor level around the perimeter and mounted on the soffit overhead with switching arranged to allow for either perimeter or central lighting to be employed.

Wet Valet illuminated employing suitably IP rated sealed 1,500mm LED batons overhead.

3.2.4 Small Power and data cabling

Data installation of CAT 6/6a cabling from the data / comms rack located within the Comms cupboard to all data/telecom outlets throughout including provision of all plates and RJ45 outlets. All terminations and labelling to be included and tested to facilitate Client commissioning at Patch cabinet (racking by Volvo specialist)

See BWIC Section 5.18

'Schneider Electric Optiline' or 'CMS Ltd' heavy duty in-screed floor boxes fitted either with flush stainless-steel lids or with recessed lids to take a floor finish depending on the location - socket floor-box outlets to each desk and under each powered fixture containing 4 x 13 A power and 4 x RJ 45 data.

'Schneider Electric Optiline' or similar mini floor box with similar HD lid under display car locations set flush in floor containing 2 x 13 A power and 2 x RJ 45 data.

Kitchenette and Canteen areas to include switched fused spurs above worktops connected to low level socket outlets to serve a dishwasher and a refrigerator.

Customer, Staff and Tech's WC facilities to include for 'Airforce' or 'Dyson V' type hand dryers in satin stainless-steel unless hand towel dispensers are specified in lieu of hand dryers.

Power and Data gang plates or socket face plates in brushed stainless finish.

USB/USBC charging to be included in Customer areas with wall-mounted gang-plates or cleaner sockets to include USB/USBC sockets.

VPS wall panel sockets similarly to include USB/USBC charging – and one DSSO with USB/USBC charging to be installed within the tool cabinet.

See BWIC Section 5.6

3.2.5 Fire Alarm

The fire alarm system shall be a manual / automatic, fully monitored system to BS 5839: Part 1 – 2025 Category L3 (Cat L1 if Operators' preference) to comply with Building Regulations recommendations (or NSAI equivalent) and will be based on a multi-zone design.

Where fire alarm control panels are required within customer-facing areas they should be placed in a visually discreet but highly accessible location that meets both local building codes and overall showroom design intent. Proposed panel specification and location to be discussed with Brand Guardian to ensure all parties in agreement. Panels to be flush mounted where possible.

3.2.6 Digital and Audio

Please note that final requirements for digital and audio are to be confirmed – the following is for guidance until final specifications have been provided.

Allow for a complete containment system for digital off-air content, cable network, networked content management systems to designated locations as highlighted within the Green Design Pack (digital screens specification, supply and install and content management by Volvo specialist).

See BWIC Section 5.19

Allow for sound system comprising MP3 digital solution in the Comms Room with IT linked control and ceiling speakers – speakers to Street, Workshop and Living Room areas to be on separate circuits for independent volume control (audio install by Volvo specialist).

3.2.7 CCTV

Make allowance for a dedicated distribution to provide radial power circuits for supplies to CCTV locations both internally and externally as required by the CCTV specialist within the Comms Room (CCTV installation by Volvo specialist).

See BWIC Section 5.17

3.2.8 Intruder Alarm

Make allowance for a dedicated distribution of power circuits and containment to contactor and detection locations both internally and externally as required by the alarm specialist along with dedicated phone line / redcare within the communications room (alarm installation by Volvo specialist).

Where intruder alarm control panels are required within customer-facing areas they should be placed in a visually discreet but highly accessible location that meets overall showroom design intent. Proposed panel specification and location to be discussed with Brand Guardian to ensure all parties in agreement. Panels to be flush mounted where possible.

See BWIC Section 5.17

3.2.9 Lightning protection

Make allowance for the provision and installation of a lightning strike (transient over-voltage) surge arrestor system as 'Furse' or equivalent.

3.2.10 Photovoltaic (PV) power supply

Provide an accredited specialist design, supply, installation and commissioned Photovoltaic system including all necessary secondary support framework. PV modules shall be arranged to minimise over shading, achieve optimum orientation, and facilitate maintenance personnel access between the strings of modules for cleaning.

PV generation may include photovoltaic glazing in proprietary curtain walling where applicable (see Section 2.6)

Similarly, PV may include generation from external canopies in addition to roof mounted system where applicable (see Section 4.6)

The isolators, inverters and PV distribution board shall be located with due consideration given to the maximum distance limitations between the array and the inverters, with the generation meter being located in the ground floor electrical intake & switchgear position.

The system shall be sized to provide a minimum total kWp generation to satisfy Approved Document Part L requirements, any Local Authority Planning Conditions, any BREEAM requirements and be connected via inverters to the building electrical supply. (Provide an optional additional cost for an enhanced PV array optimising the total available roof area to enable the Dealer to consider the resultant energy saving benefits against the increased capital expenditure).

The system shall include a display panel to be located in the Showroom to indicate power output (kW), total energy generated (kWh) and carbon emissions avoided (kg). All equipment shall be listed on the MCS accredited list, with the installation carried out by an MCS accredited installer. The MCS accredited installer shall be responsible for the application process to install a PV System to the local District Network Operator (DNO) and for the formal G59 application.

The MCS accredited installer shall be responsible for the application process to enable the building owner to benefit from the feed-in tariff scheme.

The system shall be installed strictly in accordance with the manufacturer's recommendations and be commissioned by the accredited specialist with the appropriate certification provided on completion.

3.3 Mechanical installation

3.3.1 Heating and Cooling

3.3.1.1 Sales and Aftersales

A system of 'variable refrigerant flow (VRF)' or 'variable refrigerant volume (VRV)' comfort cooling and heating with heat recovery shall serve the Showroom and Offices at ground and mezzanine levels - by either 'Mitsubishi Electric' or 'Daikin'.

The comfort cooling and heating system shall utilise a low-GWP, zero ozone-depletion refrigerant (e.g. R32) compliant with the latest F-Gas/EPA regulations.

Ventilation shall be provided by heat recovery ventilation units (HRVUs).

All FCU and HRVUs shall be in-void ceiling mounted and ducted to ceiling supply with extract air at high level and to external inlet and exhaust louvres (louvers are not permitted in FOH glazed or rendered elevations).

Showroom display areas with higher ceilings shall be in-void ceiling mounted units ducted to white PPC linear ceiling grilles preferably in MF margins rather than accessible ceiling tiles (subject to meeting performance design criteria). Swirl diffusers in the ceiling tiles by exception if an absolute design requirement.

No 'eyeball' jet nozzle diffusers nor grilles will be permitted in vertical bulkheads.

Office areas where ceiling voids are restricted can have lay-in grid cassette units – in matching 'Mitsubishi Electric' or 'Daikin or equivalent plant to be approved, white 600 x 600mm units laid flush in plane with ceiling grid and suitable fall to condensate drainage (this is expressly excluded in The Street and Living Room areas).

The VRF / VRV comfort cooling and HRVU units shall be provided with a central intelligent touch controller package. Enabling and disabling of the unit shall be provided by a centralised remote control located in the mechanical services control panel. Room sensors shall be provided within the showroom to maintain the showroom set temperatures.

No customer-facing wall mounted cassette units are permitted.

Comms Room to have split DX cooling system with independent controls.

The Workshop areas shall be heated by gas-fired, black heat, "AmbiRad" style linear radiant heaters mounted at high level.

3.3.1.2 Back of House

Offices, Meeting rooms, Mezzanine and Staff areas to be included in the VRF / VRV cooling and heating system
or

amended to independent split cassette system.

Dry Valet Bays must be heated with either gas or electric radiant heating.

Heater flues shall discharge, either singly or in groups through the roof of the building or in rear elevations – but not in glazed or rendered cladding FOH elevations.

3.3.2 Domestic water

Hot water service shall be provided via an unvented hot water cylinder.

Cold water service shall comprise mains cold water only.

3.3.3 Above-ground drainage

Make allowance and install above ground drainage services to all sanitary ware, appliances and un-vented hot water cylinder. Foul drainage pipework shall be concealed within casing.

3.3.4 Toilet extract ventilation

Extract ventilation to toilets shall be provided by a twin-fan internal unit, including automatic change-over on fan failure and duty sharing 'NUAIRE Ecosmart Twin Fan' unit or equivalent.

3.4 Lift installation

Electrically operated lifting platform 'Gartec Disabled Access Platform Lift' to RAL 9006 White Aluminium to lift enclosure, including door and frames.

4 External Works

4.1 Hard landscaping and pavings

(ST01) Roadways formed of tarmacadam paving ('SMA' 6 - 10mm stone) with delivery areas in designated HD grade suitably rolled up to battered face precast kerb all to gradient per the Civil Engineer's specification.

(ST02) Apron paving to building perimeter of 'Marshalls' 80mm brick paviour – Charcoal colour, in sand bed

Road marking – directional arrows, lanes and traffic controls in thermoplastic white road marking paint – directional arrows and any lettering to be Volvo font .

4.1.1 Plaza Customer Parking

Customer Parking bays typically 3,000 w x 5,000mm L (D/A and P&C bays 3,500 w x 5,000mm L)

Demonstrator Parking bays typically 3,000 w x 5,000mm L (minimum 16 No).

(ST03) 'Marshalls Conservation X' 80mm concrete block paving (to Civil Engineers design) with textured granite effect, 160 x 160mm (or 120 x 160mm) Silver Grey
or

'Tobermore Fusion' 80mm concrete block paving with textured granite effect, 100 x 200mm Silver Grey.

Parking bays in Silver Grey - paved parking areas to be demarcated with full length charcoal paviours between bays.

Disabled parking bays can be demarcated in blue although not legislated under current Irish regulations. White wheelchair user symbol and boundary lines are required.

Low height boundary walls in brushed concrete plaster finish and 'Marshalls' or similar approved smooth concrete paving slabs.

Planter beds formed with edge kerb and filled with topsoil and long grass species including walkway decking formed of timber reeded decking planks on subframe.

Note: please refer to VCI VRE recommended soft landscaping guide for planting.

4.1.2 The Volvo Selekt Display Parking

Selekt Parking bays typically 3,000mm w x 5,000mm L - layout to permit open door viewing.

Area comprising brick paving of 'Marshalls' 80mm Silver Grey 100 x 200mm brick paviour (ST03). Buffer soldier course half battered face edge paviours at junctions with black tarmac circulation lanes. No individual bay demarcation within the Selekt demise.

All designed to the Structural Engineer's specification.

4.1.3 The Selekt "Hero" car display

Feature car area comprising raised concrete plinth with "Tobermore Fusion" granite 100 x 200 block paving and drop kerb edging with in-ground display up-lighting - all to the Civil Engineer's specification.

4.1.4 Kerbs

Generally to external edges and landscape areas to be pre-cast concrete, HB2 half battered face or similar.

Between circulation, display and parking areas, all finishes to be low profile HB2 laid flat or in matching battered edge paving ranges (to prevent damage to alloy wheels).

4.1.5 Other (Signage and Canopies)

Where required ducting for Comms panel, Expo wall and illuminated secondary signage should be installed to suit Green Design Pack layout – ideally in the soft landscape areas or in kerb protected paved "islands"

Similarly, ducting, foundations and drainage should be installed in co-ordination with Canopy design by Volvo direct supplier

See supplier Appendix and BWIC - Section 5.2 Signage

See supplier Appendix and BWIC - Section 5.23 Canopies

4.2 Drainage

Below ground foul drainage, manholes, chambers and Utility connections in the carriageway.

Surface and rainwater collection drainage channels of precast concrete, 'Aco' drainage, kerbside gullies and the like to achieve minimum falls for avoidance of standing water.

Drainage Utility connections should be within the carriageway per the Civil Engineer's specification.

SUDS drainage criteria where applicable. Porous paving where required – to be consistent with the colour ranges specified above.

Rainwater harvesting should be given due consideration for sustainable water consumption – either for wet Valet wash only or, if suitably filtered, for WC cistern CWS. Tanks can be surface mounted above ground if disposal of arisings from below ground tanks is not viable. Float switches and control systems to resort to mains fed CWS at tank low levels to be incorporated along with digital read out of economies achieved.

4.3 Perimeter treatments

(PF01) Boundary secure hoops of 1,400mm long x min 60mm diameter CHS set in concrete – spaced at 2,600mm centres (1,000mm gaps) set 750mm high. To be Marshalls 'Rhino' or similar in brushed stainless-steel finish.

(PF02) 'Rhino' or similar min 90mm diameter 750mm high stainless-steel post bollard set in concrete – including within apron paving at external corners of glazing / cladding, at pedestrian Portal entrances and at vehicle entrances.

(PF02) 'Rhino Retractable' or similar min 90mm diameter x 750mm high stainless-steel bollard and sleeve with locking handle set in concrete and free draining in shingle at site entrances.

(PF08) 2,000mm high slatted timber screen fence on posts set in concrete to waste and bin stores.

(PF05) 2,400mm high 'Paladin' PPC black mesh fencing on posts set in concrete.

(PF04) Gates to be 2,400mm high manual sliding or double leaf swing gates, framed and matched 'Paladin' mesh with drop bolt and hasp for padlocking.

4.4 External lighting

External LED lighting can be provided by VCI approved suppliers iGuzzini or Erco - as specialist design based on VRSE LED concept lighting (see Suppliers Appendices). All fittings referred to within the following section are to be treated as general descriptions – specific schemes / specifications to be provided on a site-by-site basis based upon the approved VCI VRSE generic lighting proposals.

Building mounted floodlights or spotlighting is not permitted in customer facing areas of curtain wall and cladding.

Galvanised post lighting columns (6,000mm) set in concrete of suitable gauge (89mm) to accommodate CCTV bracket fixing and weights (by CCTV installer). Finish in RAL 9006 White Aluminium powder coat or Hammerite painted.

Pole mounted external LED lighting clusters to achieve external illumination levels to the car parking spaces at 50lux and general surrounding areas at 20lux at ground level. Colour temperature to be 3000K or lower to reduce blue light emissions. Fittings are to direct 100% of the light downward to avoid light pollution and comply with local dark sky brightness guidelines.

Suitably IP rated downlighting to covered parking fixed to soffit of Selekt timber canopy for even lux over parked display. . Colour temperature to be 3000K or lower to reduce blue light emissions. See Section 5.23.

Below ground ducting and distribution, timeclock and photoelectric cell control for the complete external lighting installation.

External illuminated signage will include similarly timeclock controlled below ground ducted power supply and includes Pylons, directional signs, flags, Volvo Selekt Comms and Totem signage, Podium car display, Expo Wall and building elevations. See Suppliers Appendices for more details.

External security requirements will require power and duct provision - installation will be by direct security specialist.

See BWIC - Section 5.17

All necessary below-ground ductwork and draw chambers to accommodate cabling (including EV, security, illuminated signage, lighting, etc.) to be installed.

4.5 Soft Landscaping

The Plaza includes planter beds filled with topsoil and long grass or natural local wildflower species.

Other areas of soft landscaping are to comply with approved Local Authority landscaping conditions. These areas must be free draining, filled with suitable topsoil and edged where necessary with timber toe board to prevent mulch drifting onto paved areas.

Note: please refer to VCI VRE recommended soft landscaping guide for planting.

4.6 Features

Volvo Selekt Expo Wall feature wall

– min 8,000mm wide x 3,200mm high, comprising blockwork on footings with white through-colour acrylic render to match RAL 9003 Signal White. Top of wall in suitable precast coping, natural colour, drip moulding proud of render.

Signage element supplied by Others as a direct signage item (by Gaelite Signs).

BWIC to include ducting for lighting with power for illuminated signage.

See supplier Appendix and BWIC - Section 5.2

External Software Download Bays

– heavy-duty proprietary external canopy system over designated vehicle software download bays in galvanised steel or anodised aluminium framework with corrosion-resistant pc finish, roofing materials to be heavy duty UV stabilised polycarbonate panels or insulated composite metal cladding. Wind break panels should be included to minimise wind-driven rain intrusion.

BWIC to include external canopy lighting, small power and IP rated 13 A sockets, drainage and foundation to engineers design
Refer to EV Charging Section 3.2.2 for further requirements

–See supplier Appendix and BWIC - Section 5.23 Canopies

Cycle shed and racking

- ‘Ollerton’ stainless-steel racking set in concrete or similar to comply with approved Local Authority conditions, covered polycarbonate shelter.

EV Charging points

- in locations as noted in Section 3.2.2 or in GDP - set on concrete plinth topped in ‘Marshalls’ 80mm brick paviour in ‘Charcoal’ colour, including hooped bollard protection rail set into concrete.

Contact Volvo Car Ireland for approved supplier of Charging stations on the site.

See supplier Appendix and BWIC - Section 5.20

Proprietary Selekt parking canopies

– Selekt parking areas to have bespoke covered parking under freestanding laminated beam canopy structure on footings with integral illumination all by – installed by VCI approved supplier to be Wiehag.

[Canopy to carry an integrated PV system wired into the mains intake panel – see Section 3.2.10](#)

BWIC to include footings, drainage, ducting for lighting and power for illuminated signage.

See supplier Appendix and BWIC - Section 5.23 Canopies

Parking demarcation - to be delineated in parking areas with darker paving of same specification and corners of each bay highlighted with minimum “T” darker paving blocks.

Signage - in locations as GDP should be in the soft landscaped areas 600mm in from kerb or protected from circulating traffic by paved islands at intersections of bays.

External wash points – provide frost protected bib tap and IP rated external power point (ideally in soft verge) for stock vehicle washing – 1 x Selekt parking area and 1 x Service WIP or new vehicle stock area.

4.7 Battery storage

Space for bespoke EVC battery storage should be made on the external site (in addition to controlled waste and bin storage). Storage may need to include fire and explosive proofing and fire dousing measures TBC in EVC guidelines.

EVC procedures will also dictate handling and loading/offloading of warranty repair or defective batteries needing secure transportation - dedicated storage should therefore be located on the articulated vehicle path with HD tarmac.

See supplier Appendix and BWIC - Section 5.25

5 Furniture, Fit-Out and Equipment (Direct Trades)

5.1 Generally

All items of loose furniture, equipment and fixturing including Volvo CI content and signage shall be excluded from Estimates of Construction cost.

These will be sourced as direct quotes from Volvo's approved supplier network by the Operator.

The main exception is the associated builders' works (BWIC - highlighted here) to facilitate these installations and this must be anticipated and included within the specification as follows:

5.2 Brand signage – External (by Gaelite Signs from Visotec)

Brand signage to external areas in accordance with signage scheme design as indicated within the Green Design Pack procured by specialist supplier - includes primary signs on glazing, entrance statement, pylon and secondary, directional and parking signs and flags etc.

Glazed facades to have Volvo sign typically comprising individual illuminated letters on a fixing bar/rail set into the blue vinyl film / glazed area – refer to sign details provided by Gaelite Signs within the Supplier Appendices – subject to Gaelite Signs survey prior to installation.

Opening Hours sign to Entrance Portal similarly supplied by Gaelite Signs.

Volvo Selekt display areas to include external illuminated Comms panel and external 'Expo' Wall.

Volvo Selekt wall (Expo wall) as individual backlit letter signage for rendered wall applications.

Gaelite will carry out all survey, preparation, groundworks and foundations for signage installations.

BWIC - secondary sub-framing in cladding or fixing plates in glazing joints for sign fixings, and 10 A power supply in ducting to illuminated signage, photoelectric cell operated and time clock controlled on independent circuit.

Providing sign fixing brackets in proprietary curtain wall joints should be included in the warranty subject to approved signage loads and cable penetrations similarly accommodated in the weatherproof guarantee

Selekt Expo wall in blockwork wall with acrylic render and coping (as Section 4.6).

Signage in tarmac or circulation areas must be protected with kerbed islands or paved surrounds as per signage contractors details. See Suppliers Appendices for more information.

5.3 Internal vertical timber wall panelling, brand signage, graphics panels and timber surrounds to digital screens – (by Exhibition & Interiors and Gaelite Signs)

Reception/Greeter table backdrop with recess formed of real wood “Ash” full height, vertical timber batten feature by Volvo approved specialist (Exhibition & Interiors).

All timber panelled wall areas to the Living Room formed of real wood “Ash” full height, vertical timber batten feature by Volvo approved specialist (Exhibition & Interiors).

Real wood ‘Ash’ timber framed recess with timber display rail for paint trims display to Your Car Studio area by Volvo approved specialist (Exhibition & Interiors).

Wall-mounted ‘Ash’ timber frame surrounds to digital screens by Volvo approved specialist (Exhibition & Interiors).

Wall-mounted Selekt Wall with non-illuminated Selekt lettering (by Gaelite Signs) and digital screen – Selekt Wall by Volvo approved specialist (Exhibition & Interiors).

Internal Volvo non-illuminated wordmark made up of individual letters on fixed directly to fascia within the Greeter Table area - to be supplied by Gaelite Signs.

Volvo Selekt display areas to include both internal (free-standing) Comms panel and non-illuminated lettering to internal Selekt Wall (by Gaelite Signs).

Internally illuminated graphic panels to areas indicated within the Green Design Pack to be supplied by Exhibition & Interiors or Gaelite Signs (tbc).

Form pattressed reinforced wall with 18mm ply layer.

Allow for a plug and socket connection (on lighting circuits for any illuminated wall graphics), switches, panels or devices for the recessed reception/Greeter table backdrop and all timber panelled wall areas to The Living Room. Allow for pattressing to timber framed recess for paint trims display to Your Car Studio area and for wall-mounted Selekt Wall.

Allow for wall support (for bracket fixing) and power / data connections to all digital screen locations within timber panelled wall areas including Explorer Screen, Storytelling Screen and Selekt Wall Screen.

Allow for pattressing to rear of timber frame surrounds to digital screens.

Provide power supply for illuminated fixtures, graphics or signs – ideally on centrally switched and time clocked lighting circuits (includes illuminated Lifestyle Shop shelf unit when face fitted to timber backdrop).

Provide pattress reinforced MF ceiling frieze to separate Vertical “Ash” timber cladding from “Ash” timber ceilings where these meet over Reception.

5.4 Loose Furniture - Sales and Aftersales (supplied by Senab, installed/assembled by Exhibition & Interiors)

Desks, chairs, consultation points, configuring fixtures, The Living Room installations, merchandising and display fixturing etc all in accordance with Showroom furniture plans within the Green Design Pack and procured by specialist supplier (Senab).

The Living Room includes the circular table, sample drawer units and bespoke ‘ash’ colour / trim recessed display within the Your Car Studio area (by Exhibition & Interiors). Similarly, the granite top Clean Water Station/Refreshments island unit with seating. Note that the granite top for the Clean Water Station is not part of Senab supply – this item is sourced locally and installed by Exhibition & Interiors.

The Lifestyle shop for merchandising is in component parts generally adjacent to the reception with illuminated shelf unit.

Sheer curtains at internal front-of-house office glazed screens and Living space / lounge divisions - with full length hemmed and finished gauze curtains (see 2.13). Sheers to be ordered on a Senab template to confirm as built dimensions (supplied by Senab and installed by Exhibition & Interiors.)

Rugs at Car Delivery Bay and Lounge areas (by Senab and installed by Exhibition & Interiors.).

Rugs at ‘traditional’ desk style Sales Consultation Points (by Alliance Carpets).

BWIC - Co-ordination of floor-boxes to sit under components and not in seated areas of desks etc. Cut out loose rug to expose floor box lid if necessary.

Water and power points to Clean Water Station / Refreshments island unit in The Living Room.

Provide ceiling roses in void and fit direct-supplied pendant lights as indicated within the green Design Pack – these can include 1 x feature pendant over Greeter Table, 1 x metal pendant in each Consultation Room and 2 x large pendants over tables within each low seating area with rug, 1 x large pendant over Your Car Studio table, 4no small pendants over the Clean Water Station and 1 x large pendant over each Car Delivery Bay seating area.

Provide power for floor lamps in Living Room areas – (ideally mini floor box located under chairs or furniture to avoid trailing leads and trip hazards)

Provide pattress to MF ceiling frieze at office glazing, Consultation Room glazing and above suspended ceiling tiles within the Street for curtain track fixing.

Provide pattress to plasterboard downstands within Car Delivery Bays for curtain track fixing to allow for full floor to ceiling height curtain drops.

Provide attendances and supervision including but not limited to protection of finishes, waste, access, power and amenities.

5.5 Loose Furniture - Back of House

Operator's choice of supplier - BOH Office desks, chairs, storage units etc. in accordance with furniture plans.

Includes Printer/ copiers etc.

BWIC - Co-ordination of floor-boxes to sit under the desks and not in seated areas of desks etc.

Extra IT and data to copier / printer locations.

5.6 Workshop Furniture & Equipment

Generally Operators' choice, matching desks, chairs, storage units etc. in accordance with furniture plans procured by Operators' own supplier.

Operator's choice of supplier for Workshop equipment in accordance with layout plans and VPS guidelines.

VPS bays to have 3.5T in-ground fully recessed cassette ramps, installed to manufacturers recommendations and ducted supplies with isolator control built into VPS wall

Or (by exception with Volvo VPS and BG approval only)

where ground conditions or structural slab design prevent in-ground cassettes, VPS bays can have surface mounted 2 post ramps at maximum span width and with fully retractable telescopic forks.

Ramps to be installed to manufacturers recommendations with ducted supplies below slab and with isolator control built into VPS wall. All ramp services to be set out within the void behind the VPS wall to prevent obstruction in the working areas.

Traditional / Andon bay to have 2 post ramp installed to manufacturers recommendations and ideally supplies ducted in slab (overhead power supply only by exception) with isolator control built into VPS wall.

EV/Battery service requires 4T 2 post ramp installed to manufacturers recommendations and ideally supplies ducted in slab with EV charger and isolator control built into VPS wall. In ground cassettes must be full width type to permit battery removal (no cantilevered arms with rams within chassis width).

Battery/Flat bay should provide a flat working surface without a ramp located adjacent to the EV bay (if a ramp is installed in this bay, it must have retractable swing arms or a fully retractable in ground cassette so that there is no obstruction to manoeuvring the mobile battery lift for unimpeded working space between the EV and Battery bays). The battery bays similarly to include VPS wall and tool storage.

EV/Battery bays to have dedicated local ventilation and fume extract / LEV to specialists' design.

Battery lift – mobile lifting battery jack with 1,300 x 768mm table size (base frame 1,400 x 1,055mm) and 1,000kg capacity to 1,800mm lifting height (1,320mm useable height)

Diagnostic tyre tread and wheel align reader at workshop entrance with recess in slab and concealed ducting for services and with data connection to Service reception area.

Oil, air and water reels to be suspended from soffit with hoses located to the front axle position of the Bays.

Equipment storage; Minimum standard of 50m² – comprising Min 36m² unrestricted, open storage with a min 1,800mm wide clear opening access on level floor. Unit repair in this area; Min 4m². Tyre change and balancing in this area; Min 6m² and finally, the Battery trolley stowed in this area; Min 4m².

VPS wall units - supplied as Parts Ordering System - modular units including shelf and tool storage etc Panels RAL 7004 40 gloss, Dupont 16-40. See Aftersales Datasheets for construction and set out.

BWIC supply and co-ordination of 3-Phase power to an isolator and duct to each ramp / workstation (specialist installer to commission and test equipment at ramps).

Allow 4 x 13A power and 2 x data in VPS wall with USB/USBC charging – allow 2nd fix faceplate brought through holes cut into VPS panels.

Allow 1 x 13A DSSO with USB/USBC charging to be installed within the tool cabinet.

Floor slab to be modified for below-ground cassettes (or 2 post ramps) – cassette box issued FOC by specialist for casting into concrete; allow all below slab ducting.

Provide water spur at suitable locations and drainage at Technicians wash hand basin

Compressor to have natural ventilation space on external walls.

Cladding louvers and holes for specialist ventilation flue penetrations (exhaust, LEV, compressors etc) to be included in cladding design.

Ceilings to be co-ordinated with and modified for all overhead services including hoses, air and extract suspended from openings in the ceiling with reinforced ceiling tees

Provide below slab ducts and Camera fixings with small power spurs for Tread reader monitoring equipment

VPS wall - Take delivery of VPS wall panel system, tool cabinets and IT units and assemble on and including stud frame construction with adequate void behind for all necessary services . Allow MDF closers to head, reveals and returns for complete false wall to extent of VPS bays. Protect pedestal legs under shelf posts with suitable skirting detail

See Suppliers Appendices for VPS and Aftersales Datasheets for setting-out details

NB – it is the responsibility of the main contractor to achieve the level tolerances required for the BWIC with ramp cassettes (or recesses). The equipment supplier must check before final fix of below ground cassette (or 2 post) ramps are installed.

5.7 Exhaust Extract - Back of House

Operator's choice of supplier to workshop areas in accordance with layout plans.

Exhaust extract system with air handling and hose reels to be suspended from soffits to the rear of the vehicle / bay positions.

Flues and exhaust to discharge to exterior but not through Volvo glazed panels or cladding.

BWIC - Form holes in envelope with flashing for exhaust flue.

Provide Unistrut brackets between purlins for suspended exhaust extract reels

Adapt ceilings for service openings with reinforced ceiling tees

5.8 Tyre Fit Equipment - Back of House

Operator's choice of supplier to workshop areas in accordance with layout plans.

Tyre Fit and Wheel Balance - surface fixed, bolted to concrete floor slab.

Tread and Alignment reader – recessed into slab with control panel rebated within side wall. Containment for data to link to Workshop Support area.

BWIC - supply and co-ordination of 3-Phase power and data to equipment (Specialist installer to commission and test equipment at ramps).

Floor slab to be recessed and edge protected for wheel alignment 4-post ramp - all in accordance with specialist's requirement and subject to Structural Engineer approval. Ditto, for Tread reader equipment.

5.09 Oil Tanks - Back of House

Operator's choice of supplier to workshop areas in accordance with layout plans.

Oil tanks with pipe supply to each bay by specialist.

Waste oil return system and tank suitably located to have filler cabinets near entrance to accommodate tanker access.

BWIC - Form opening in wall or cladding for filler cabinet.

5.10 Parts Racking - Back of House

Operator's choice of supplier to parts areas in accordance with layout plans.

BWIC - co-ordinate lighting in accordance with Racking plan

5.11 Valeting Equipment - Back of House

Operator's choice of supplier to valeting areas in accordance with layout plans.

Wet valet equipment assumed to be mobile 'Karcher' units (gas fired plant and overhead lance not included).

Compressed air feed to valet bay all by specialist.

Dry valet equipment to include workbenches and storage units.

BWIC - Provide water spur at suitable location with separate break tank to valet spurs.

Allow for ventilation if powered valeting plant installed.

Dry valet to include IP rated LED batten or panel lighting to side walls at low height.

5.12 Smart Repair Bay and Photography booths - Back of House

Operator's choice of supplier to Smart Repair and/ or Photography booths installations and location.

Assumes Infra-red or specialist heating / paint drying / polishing all by specialist.

BWIC - Provide water and power spur at suitable location.

Allow for specialist local extract ventilation (LEV) ventilation (standalone) to paint areas.

Form holes in envelope with flashing and include louvers to specialist installer's specification.

Smart Repair to include IP rated LED batten or panel lighting to side walls at low height.

Photography booth walls to be drylined and painted.

Photography booth to have uniform lux levels to meet camera requirements and recessed slab with level tolerances and edge protection to meet rotating turntable Manufacturers' requirements.

5.13 Technician's Lockers - Back of House

Operator's choice of supplier of lockers in accordance with layout plans - includes lockable locker units - floor mounted by Tenants' supplier.

BWIC - None.

5.14 Canteen Equipment - Back of House

Operator's choice of supplier of Canteen furniture and white goods in accordance with layout plans – includes:

- Canteen integral table and seating units fixed to floor
- Canteen zip heater or urn for boiling water
- White goods including microwave, dishwasher and fridges as required.

BWIC - Water points for drinks machine.

Drain spur for dishwasher.

5.15 Key Safes - Back of House

Operator's choice of supplier of Safe:

- Lockable key safe cabinet fixed to wall and floor (on baseplate)
- Lockable cash safe (AFRL) fixed to floor on bolted baseplate.

BWIC - Provide plywood pattress to wall mounted fixtures.

Cast in template of floor-mounted safes (issued FOC by supplier).

5.16 Fire Fighting Equipment – Front and Back of House

Front and Back of House to Operator's choice of supplier with all fixed and loose firefighting equipment on floor mountings or fixed to walls, with associated local graphics and signage fixed to walls – all items as required to comply with local regulations.

With specific reference to areas visible to customers there is a requirement to balance regulatory compliance with the showroom design intent. It is therefore recommended that firefighting extinguishers are ideally specified in a stainless steel or polished aluminium finish on matching stands.

Example suppliers:

<https://www.firequeen.co.uk/fire-safety-products/designer-fire-extinguishers-for-luxury-interiors/>
<https://southernfiresafety.ie/services/stainless-steel-range/>

BWIC - Provide plywood pattress to wall mounted fixtures.

5.17 CCTV and Security Systems

Operator's choice of supplier to all areas in accordance with layout plans to include the following:

Occupiers intruder alarm system with door / window contacts plus detection and PIR alarm. 'Redcare' telephone line as appropriate.

CCTV System - internal PIR camera detection with multiplex screen monitoring in Managers office.

CCTV System - external system of PTZ camera detection connected to building fabric or to external lighting columns with co-ordinated external lux levels, multiplex screen monitoring in Managers Office.

Cameras may not be fixed to cladding without prior 'BG' approval.

BWIC - Provide power and containment (internal trays and externally in concealed below ground ducting) for secure camera cabling - assume supplier can apply fixing brackets for column mounting but not on cladding.

5.18 Voice and Data Systems

Operator's choice of supplier to all areas in accordance with layout plans and to include:

- Supply patch cabinet to Comms room
- Supply, install and commission all necessary IT installations, hardware, PC desktop and telephone fit out.

BWIC - Provide power, cabling and containment in concealed ducting for secure cabling routes to Comms room.

Base build includes for flood wire CAT 6/6a data cabling in conduits and trays terminated in wall or floorbox locations and patched back to Comms room.

5.19 Digital screens and Audio Systems

Volvo approved digital screens from Volvo approved supplier for implementing Digital Sales Units (DSU) at every display car (one screen for each DSU). As part of the VRSE environment power and data points have been specified underneath each display car, the DSU devices will plug-in to one of the sockets available underneath each car.

Digital Point of Sale lecterns at each display car - final specification for hardware to be confirmed – lecterns supplied by Exhibition & Interiors.

DSU devices will need to be connected to the data network with outbound internet access over http and https, (either a wired (preferred) or Wi-Fi connection). Training will be planned prior to DSU install.

Final details regarding digital hardware specification (including mounting brackets), ordering, training and content management will be made available shortly from VCI.

BWIC – Provide electrical and data supply to these locations.

Large full height 'Storytelling' digital screen with integrated media player to Living Room wall – final specification for hardware and any audio requirements to be confirmed.

YCS interactive 'Explorer' digital touchscreen - final specification for hardware and any audio requirements to be confirmed.

Team target board to workshop (not within customer views) comprising a 65" touch screen TV and a PC/ laptop that will operate Google Chrome.

Operator's choice of supplier to all areas in accordance with layout plans and to include:

- TV units in staff canteen / amenities
- TV units in board / meeting room.

BWIC - Provide power and containment in concealed ducting for secure cabling.

Base build includes for sound system with ceiling speakers to Showroom, Workshop and The Living Room cabling and MP3 player in Comms room.

5.20 EV Charging

Operator supplied EV charge units.

BWIC - Provide power and containment in concealed ducting for secure cabling and independent isolation in SDB for charger supply with capacity to be provided for in utility applications and the power load design.

Base build to include for concrete plinth and protective barrier to external charger points and patting to wall mounted chargers.

Provide attendance and support including design sub-contractors to enable specialist installation and commissioning

5.21 Entrance Statement & Shop Window liner (by Gaelite Signs)

Direct supplied extruded aluminium sections finished to Interpon D2525 – Bleu 2700 Sable – Metallic Fine Texture YW353F with concealed integral flat roof and rain water drainage, LED lighting to front and rear reveals with opal acrylic lens – 1,500mm deep x 3,600 / 4,800 / 6,000mm wide and 2,400mm high

Fixed independent to the envelope - min 50mm off glazed frame or cladding on base plates to rebates in concrete plinth, backfilled with shingle or slate chipping.

BWIC - Provide level brushed concrete plinth to suitable dimensions (with recess for mat noted elsewhere), ramp and grade finishes to perimeter including duct with power from external signage / lighting circuits.

Provide below ground drainage point for downpipe discharge.

Provide small PPC in colour “U” section channel in the gap between glazing and rear of portal – fixed to transom capping to catch run off from the glazing above.

Provide attendances and supervision including but not limited to protection of finishes, waste, access, power and amenities.

5.22 External Glazing Film (by Gaelite Signs)

Volvo approved supplier glazing film – ‘Contravision’ internal dot matrix film fitted to all glazing except Entrance, Blue bloc-marque and Shop Windows for moderate, one way viewing from interior to exterior (by Gaelite Sign).

View from exterior to be semi-opaque white frosting with no overlap – sample to be ‘BG’ approved prior to installation.

BWIC - Provide attendances and supervision including but not limited to protection of finishes, and high-level access.

Environment should be room temperature and dust free to permit this installation.

5.23 Canopy – Proprietary Selekt parking canopy

Specialist proprietary canopy design comprising laminated beam construction with integrated rainwater, roof sheeting and lighting (as Section 4.6) – by VCI specialist (Wiehag).

BWIC – Provide suitable foundations to Specialist's design requirements

Allow for drainage

Allow for electrical supply and external lighting to covered display fixed to soffit of canopy – see Section 4.4.

5.24 Door access control

Specialist electronic fob or secure area access control to Operators security requirements are Operators discretionary installations.

BWIC – Provide electrical supply to doors requiring electronic or 'maglock' installation and a control point in the Comms or Plant room.

5.25 Battery storage

Specialist fire proof, ballistic battery storage unit with integrated lighting, detection, LEV and alarm system for secure collection and delivery of defective battery components (as Section 4.6) – by VCI specialist (TBC)

BWIC – Provide concrete slab and graded surface levels for forklift access

Allow for drainage

Provide electrical and data cable supply to storage unit

6.00 Appendices

Supplier information and appendices can be found in the Appendix references on the Volvo Car Ireland resource website:

<https://www.vci.medastandards.com>