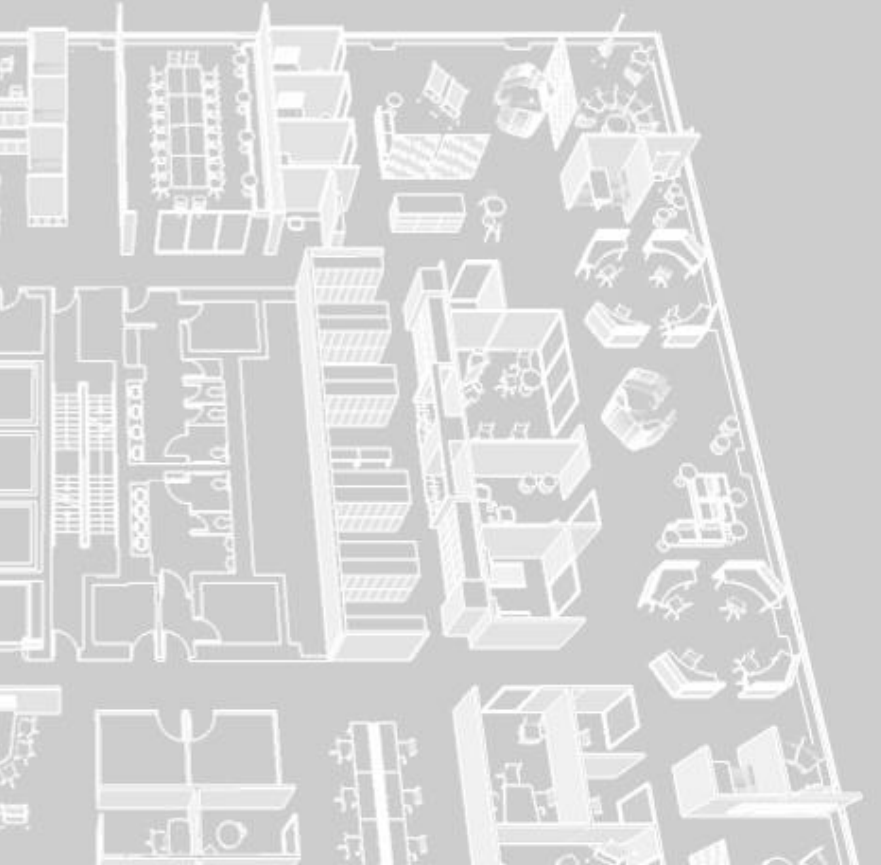


# GCworkplace TECHNICAL REFERENCE MANUAL



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The GCworkplace Technical Reference Manual is a document outlining the various workpoints included in the [GCworkplace Design Guide](#). This document should be referred to for any Fit-up or modernization project in conjunction with both the [GCworkplace Design Guide](#) and the [Government of Canada Workplace Fit-up Standards](#). The information provided includes best practices regarding workpoint dimensions, planning tips, accessibility tips, technical data and its application along with visual representations.

GCworkplace is a workplace strategy developed to best support a high-performing public service that embraces innovation, transformation and continuous renewal. Spaces are intended to promote choice, encourage collaboration, leverage technology and foster a culture of autonomy and wellbeing. Furniture solutions with integrated power and technology are to be incorporated throughout the whole work environment.

This manual is intended to be a technical reference to direct the design requirements of a new GCworkplace. This baseline of technical requirements should be applied in conjunction with client requirements as well as all relevant standards, policies; including but not limited to National, Provincial and Municipal building codes, electrical codes, and accessibility standards (CAN/CSA B651). It should be read along with the [Government of Canada Workplace Fit-up Standards](#), [GCworkplace Design Guide](#), [GCworkplace Best Practices Checklist](#), [GCworkplace Space Planning Workbook](#), and the [Technical Reference for Office Building Design \(TRFOBD\)](#). Refer to the Resources section for links to these documents.

It is important to note that with the implementation of a GCworkplace fit-up and GCworkplace Standard Furniture Typical (update to come), occupant density may differ from original base building design estimates. The Designer must ensure the base mechanical and electrical building systems have adequate capacity to meet additional demands. This should be done taking a holistic view of the building, not just the individual project in a building.

**General Specifications and Open Office Areas:** detailed specifications in this section are the basic requirement for the design of GCworkplace unless otherwise specified in the workpoint specifications.

## GENERAL SPECIFICATIONS

### ELECTRICAL :

- **Where floor monuments are required, the use of under carpet power tracks are recommended to limit the need for core drilling wherever possible;**
- **Provide general use power outlets and switches throughout as required by the National Building Code and current version of CSA C22.2 No. 42. and CSA C22.2 No.111-2010 (15).**

### LIGHTING:

- **Base building lighting;**
- **Provide appropriate lighting levels as required by the National Building Code. Refer also to the Technical Reference for Office Building Design section 8.12.1.1 Illuminance and Luminance Ratio and 8.12.9.2 Illumination Levels Interior Spaces;**
- **Where feasible within workpoints, provide dimmable accent lighting that can be user adjusted.**

### MECHANICAL:

- **Base building heating, cooling and ventilation;**
- **Airflow to suit occupant density;**
- **Consider the provision of automatic controls (when possible) to reduce cooling and ventilation to a standby mode when enclosed spaces are unoccupied;**
- **U or Z shaped acoustically lined transfer duct for full height partitions (slab to underside of ceiling with plenum barrier).**

### ACOUSTICS:

- **Consider providing interior architectural acoustic solutions such as ceiling hung or wall mounted acoustical panels (baffles) to assist in sound absorption. This will also support in defining the space and serving as a wayfinding mechanism throughout an open floorplan;**
- **Consider providing interior architectural acoustic solutions to also assist in visual separation and helping to minimize distractions in high traffic circulation routes and/or areas where tasks are performed in an open plan layout.**

### INTERIOR ARCHITECTURE:

- **Demountable and/or drywall partitions with glazing, slab to underside of ceiling with insulation and plenum barriers (enhanced speech privacy, approx. STC 45);**
- **Painted walls or unfinished to suit substrate. Limited use of wall coverings in high traffic areas can be used where appropriate;**
- **If necessary, relocate/add water bottle filling stations / drinking fountains to suit planning requirements;**
- **Millwork hardware should contrast with adjacent millwork finishes. Ensure millwork finishes are glare free and do not have a strong pattern.**

**FLOORING:**

- Where required, specify raised floor systems and ramps, epoxy or other special treatments to suit client requirements;
- Typically carpet (rolled goods or carpet tile) for all open office areas, studies, focus, work and project rooms as well as phone booths and meeting rooms and resilient sheet or tile, ceramic tile or “unfinished” within lounges and kitchenettes. Consider adjacent spaces and finish transitions to determine most appropriate finish;
- Enhance way finding and durability in major circulation paths (carpet inserts) maximum 10% of floor area unless using carpet tile.

**CEILINGS:**

- Base building standard (typically acoustic tile);
- Bulkheads as required to suit mechanical design or other site constraints;
- Bulkheads or other design elements may be used to define or delineate spaces, and for wayfinding purposes;
- Provide felt baffles at ceilings in open areas where base building architecture is left exposed (open steel web joists for example). May also be helpful in areas with high ceilings to reduce sound transmission and improve acoustics.

**DOORS:**

- Doors to enclosed rooms may be hinged or sliding, glazed, partially glazed or full core;
- Fully glazed doors shall have at least 1350mm to 1500mm from the floor, 50 mm high continuous opaque strips that extend full width of doors and partitions;
- Privacy film for glazed doors to be applied in accordance with applicable codes and standards;
- Consider additional hardware as required, for durability in high traffic areas, e.g, push/pull and kick plates;
- All hinged doors to have lever type passage set handles and all sliding doors to have a vertical pull bar at minimum 800mm from the ground.

**AUDIO VISUAL:**

- Provide 1 – 40” wall-mount monitor at main entrance of suite to be used for way-finding or town-hall style messaging.

**FURNITURE:**

- For all specifications related to furniture, refer to the GCworkplace Standard Furniture Typicals (update to come).

**ACCESSIBILITY CONSIDERATIONS:**

- Consider providing convex mirrors at all accessible routes where visibility at intersections is hindered.
- Any operating controls shall be adjacent to, and centred on, either the length or the width of a clear floor space of 800mm x 1350mm. In addition; the centreline of the operating controls shall be located in a range between 400mm and 1200mm from the floor;
- Accessible routes are to be designed clear from plants, furniture, and other freestanding items;
- Consider using colour contrast and/or install different floor finishes to visually separate support spaces from adjacent accessible route;
- For all glazed panels, add a visually contrasting strip. Colour contrasting strips installed between +/-762mm and +/-1200mm A.F.F. If the coloured film is already specified additional colour contrasting strip can be omitted;
- Consider providing contrasting colors at all transitions between floor/wall, door/adjacent wall and door/door frame.

GCworkplace and the Digital Government Vision is being amalgamated within the Digital Workplace initiative launched by Treasury Board Secretariat (TBS), in collaboration with PSPC and Shared Services Canada (SSC). The objective is to standardize and enable the Digital Government Vision within the context of GCworkplace and align technology fit-up standards towards a common shared vision. The roles of the three organizations are as follows:

- **Treasury Board Secretariat (TBS)** will support PSPC and SSC in the implementation of the GCworkplace technologies with relevant policy instruments and standards, with the accompanying mechanisms and models for funding.
- **Shared Services Canada (SSC)** will elicit the enterprise business requirements and develop the associated technology requirements. SSC will develop technology infrastructure solutions that meet the enterprise business requirements to enable the GCworkplace vision through a common Digital Workplace model. Technology solutions will be packaged into standardized flexible, modern, secure and reliable IT services. SSC will work with TBS to establish IT service and technology standards and help PSPC deliver the technology within GCworkplace fit-up projects.
- **Public Service and Procurement Canada (PSPC)** will establish the vision for the GCworkplace and the associated enterprise business requirements. Design office interiors that meet the business requirements to enable the GCworkplace of the Future vision. PSPC and SSC will work together to integrate the technology solutions into the facility design in a holistic approach.

The GCworkplace Fit-up Model will satisfy the general workplace needs of GC employees working in an unassigned wireless workplace environment, requiring collaborative and responsive technology services, anytime and anywhere within the domains of their workplace (i.e. floor, multiple floors, and whole building solutions). SSC remains the Technical Authority (TA) for all technology services brought to GCworkplace Fit-ups. The technology services, and workplace standards that form the basis of the GCworkplace Fit-up model are compiled based upon business requirements under a “Protected B” security posture for space configuration, accessibility and design. Subsequent security postures will be developed in close consultation and collaboration with partners and stakeholders. All fit-up requirements that are not covered within the GCworkplace Fit-up Model will require to be approved through TBS GCEARB governance for funding.

**GCworkplace Technology Requirements, Considerations and Assumptions** form the basis of the GCworkplace Fit-up Model. These conditions should be available at all fit-up locations unless otherwise stated or desired by PSPC and/or the client department. All business requirements for the fit-up should be indicated within the business requirements (BR) document. These assumptions will be reviewed and updated on a regular basis. \*Note: Mandatory Codes and Technical Specifications for Technology can be found in the reference section of this manual.

#### General:

- **PSPC and SSC will require to complete a site survey for every fit-up to evaluate technology service considerations and assumptions**
- **Standard ceiling height of 10 feet**
- **Standard wall and building construction materials (i.e. metal, concrete and drywall)**
- **GCworkplace designed principally for office workspace**

#### Cabling:

- **Vertical and horizontal cabling (excluding GC Wi-Fi) will be completed by PSPC.**
- **Single LAN drop can be used for multiple services**
- **Up to a maximum of 20% LAN drops will be deployed for a GCworkplace Fit-up (for all workpoints combined)**
- **Minimal to no cabling restrictions in a building (i.e. coring, adding conduit)**

#### Network (LAN / WAN):

- **1 port of access (POA) per access point (AP)**
- **48 port switch**
- **1 telecommunications room (TR) room per 1000 m2**
- **Average floor is 1000 m2**
- **Hardwired LAN connection to support 1 MB/s per connected device**

#### Wi-Fi:

- **100% wireless connectivity at the GCworkplace Fit-up**
- **GC Wi-Fi (multi-tenant) is the GC service recommended by SSC for network connectivity**
- **Commercial Wi-Fi service (CWS) available (SRA / VPN gates to be assessed for department)**
- **1 AP supports 15 concurrent device connections (compatible GC computing**

#### and mobile devices)

- **2 devices per end user (computing and mobile)**
- **Minimum 3 AP's per floor**
- **Controller size is dependent on number of AP's**
- **Wi-Fi calling enabled**

#### VoIP

- **100% availability within Enclosed Collaborative workpoints**
- **100% availability in Phonebooth and Focus Room workpoints**
- **Videoconferencing**
- **Access to videoconferencing solutions will be made available to all Collaborative Enclosed workpoints**
- **Wireless presentation technology to screencast will be made available at all workpoints with 40" or higher monitors**
- **All-in one videoconferencing solution will be installed in Medium and Large Meeting rooms**
- **Cellular Services**
- **Minimum 60db signal strength available throughout the workplace**
- **Custom Solution Configuration:**
- **Heritage buildings**
- **Military bases**
- **Secret and classified infrastructure requirements**
- **XL Enclosed Collaborative workpoint**
- **Technical Reference Manual (TRM) will contain full technology and service details by workpoint**

## DESIGN:

- Can be L-shaped or benching;
- At least one work surface per workstation to be height adjustable. To ensure maximum accessibility electric height adjustable work surfaces with an adjustable range of 584mm (23") to 1237mm (48") should be prioritized where possible;
- Any surface with monitor(s) to be at least 762mm (30") deep to allow for use of monitor arm(s);
- Always confirm compatibility between monitors, monitor arms and worksurface size;
- Panels should not exceed 1.37m (54") high; can be lower based on zone and activity being performed;
- Include adjustable ergonomic task chair and dimmable task lighting;
- Provide power modules at work surface;
- Optional open storage or hooks can be included for bags or purses;
- Optional ottoman can be included based on zone and activity being performed.

## EXAMPLE:



## OCCUPANTS: 1

VISUAL PRIVACY: Low-Medium

ACOUSTIC PRIVACY: Low

AVERAGE SIZE: 3.5m<sup>2</sup>

## TECHNOLOGY:

- **Bring-Your-Own-Device** workpoint
- For additional workstation technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Provide power circuits (one circuit/three workstations), receptacles, conduits and raceways to suit function and layout;
- Provide power module(s) to be mounted at the front side of the work surface for accessibility with simplex outlets and a minimum of 1 double USB outlet for connectivity;
- Provide one (1) power module to be undermounted at back of work surface. Power module comes with five (5) simplex outlets;
- Floor monument (where possible) or LAN drop (where required);
- Provide one (1) image/voice/data outlet per workstation (if required by client).

## MECHANICAL:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.



## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) and to help separate workstations from other zones with differing acoustic recommendations (quite versus interactive) or tasks (focus versus collaborative). Visual separation can also be helpful in reducing distractions from high traffic circulation routes or areas where tasks are performed in the open such as shared equipment and filing areas;
- Panels shall be non-acoustic class.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Prioritize electric height adjustable work surface with a sit/stand range;
- Include adjustable ergonomic task chair;
- Ensure that monitor arm are extensible, flexible and easy to adjust;
- Avoid planning workstation with user back's to main corridor;
- For maximum accessibility, power modules should be located on the main/height adjustable worksurface within 500mm (19") reach of user location. Affixed to the underside of the front edge of the surface where possible is best.

## ALTERNATE CONFIGURATION EXAMPLES:





## DESIGN:

- Semi-enclosed furniture solution with work surface and privacy panels;
- Include adjustable ergonomic task chair;
- Optional dimmable task light;
- Optional adjacent open storage or hooks can be included for bags or purses.
- Provide power module at work surface

## EXAMPLE:



OCCUPANTS: 1

VISUAL PRIVACY: Low - Medium

ACOUSTIC PRIVACY: Low

AVERAGE SIZE: 2.5m<sup>2</sup>

## TECHNOLOGY:

- **Bring-Your-Own-Device** workpoint
- For additional workstation technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

**Furniture Requirements:****If Work Pod(s) are to be powered:**

- Allow for one (1) circuit per five (5) Work Pods or other workspaces with similar Electrical Profile;
- Equip work surface with one (1) USB double outlet for connectivity;
- Optional: Provide one (1) additional duplex receptacle per Work Pod

## MECHANICAL:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.

## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) between pods or to separate a group of pods from another zone or workpoint(s);
- Privacy panels shall be non-acoustic class.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Include a variety of Work Pods; some with wider access;
- For maximum accessibility, power modules should be located on worksurface within 500mm (19") reach of user location. Affixed to the underside of the front edge of the surface where possible is best.

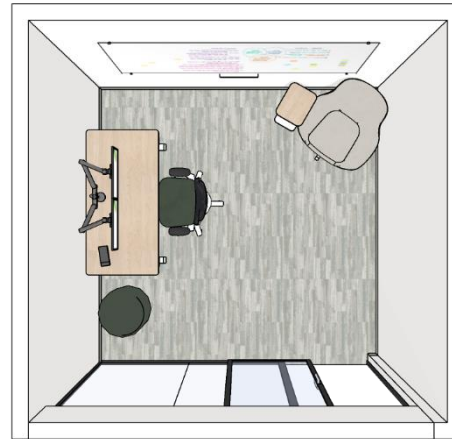
## ALTERNATE CONFIGURATION EXAMPLES :



## DESIGN:

- Enclosed room with demountable and/or drywall partitions;
- Any surface with monitor(s) to be at least 762mm (30") deep to allow for use of monitor arm(s);
- Always confirm compatibility between monitors, monitor arms and worksurface size;
- Consider sliding door to optimize space;
- Glazing on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards) only if high acoustical privacy is not required;
- Include writable surface on minimum of one wall;
- Provide adequate dimmable task lighting and secondary seating.
- Provide power modules at work surface.

## EXAMPLE:



## OCCUPANTS: 1-2

VISUAL PRIVACY: Medium-High

ACOUSTIC PRIVACY: Medium (Target: STC 35)

AVERAGE SIZE: 7.5m<sup>2</sup>

## TECHNOLOGY:

- Bring-Your-Own-Device workpoint;
- For additional workstation technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Provide power module(s) to be mounted at the front side of the work surface for accessibility with simplex outlets and a minimum of one (1) double USB outlet for connectivity;
- Provide one (1) power module to be undermounted at back of work surface. Power module comes with 5 simplex outlets.

## Room Requirements:

- Allow for one (1) circuit per four (4) Focus Rooms or other workspace with similar electrical profile;
- Equip room walls with a maximum of two (2) standard electrical duplex;
- Consider removal of base building lighting and replace with dimmable accent lighting with controls for user adjustability or rewiring existing light fixture.
- Provide Image/voice/data outlet per Focus Room (if required by client- to be assessed on a project by project basis);

## MECHANICAL:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## INTERIOR ARCHITECTURE:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Prioritize electric height adjustable work surface with a sit/stand range;
- Include adjustable ergonomic task chair;
- Contrasting surround on sliding door with handle;
- Sliding door must open with ease;
- Preferred layout to avoid having back to door;
- For maximum accessibility, power modules should be located on worksurface within 500mm (19) reach of user location. Affixed to the underside of the front edge of the surface where possible is best.

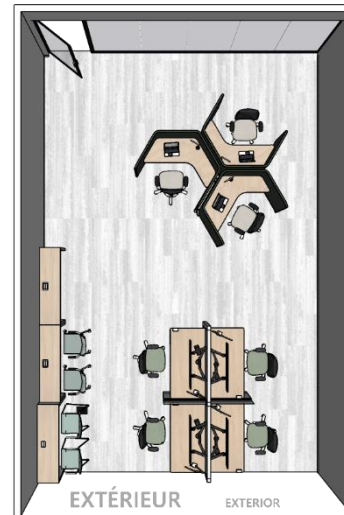
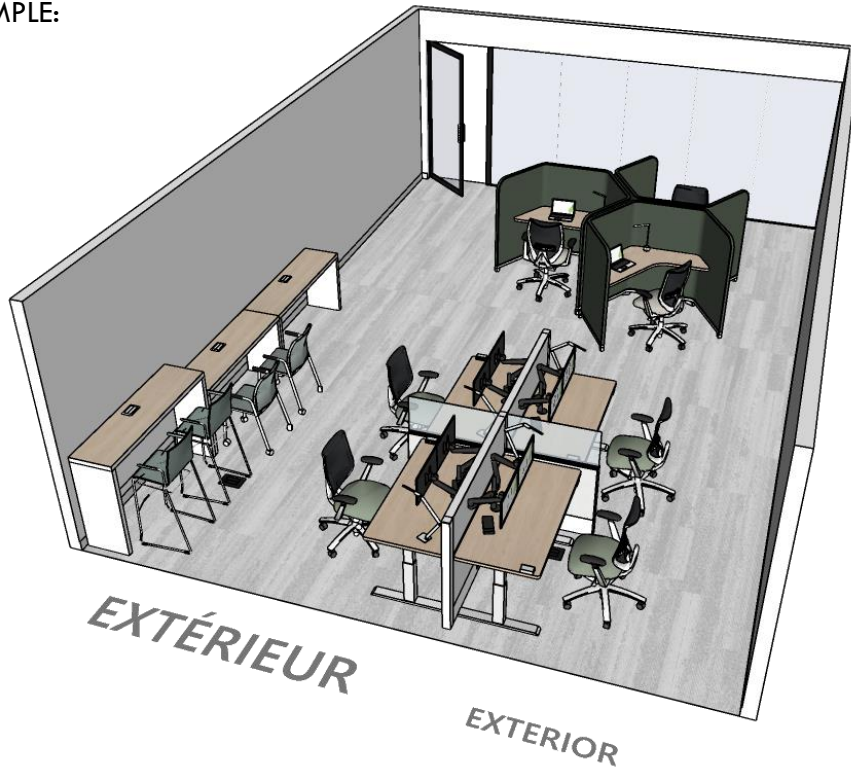
## ALTERNATE LAYOUT EXAMPLES:



## DESIGN:

- Enclosed room with demountable and/or drywall partitions;
- Consider sliding door to optimize space;
- Glazing on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);
- Include a variety of different individual workpoints (Workstation, Touchdown and Focus Pods);
- Always confirm compatibility between monitors, monitor arms, weight and worksurface size.

## EXAMPLE:



OCCUPANTS: 4-6 min. recommended varies depending on size and task

VISUAL PRIVACY: Low-Medium

ACOUSTIC PRIVACY: Medium (Target: STC 45)

AVERAGE SIZE: 4m<sup>2</sup> per occupant

## TECHNOLOGY:

- Bring-Your-Own-Device workpoint
- For additional workstation technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- For soft seating furniture solutions, provide convenience outlets in nearby floor or wall as required;
- When populating studies with other workpoint types, ensure to provide the required electrical infrastructure as indicated for those specific workpoints.

## Room Requirements:

- Allow for one (1) circuit per maximum six (6) workpoints; (if panel based solutions)
- Equip room walls with a maximum of three (3) standard electrical duplexes.

## MECHANICAL &amp; INTERIOR ARCHITECTURE:

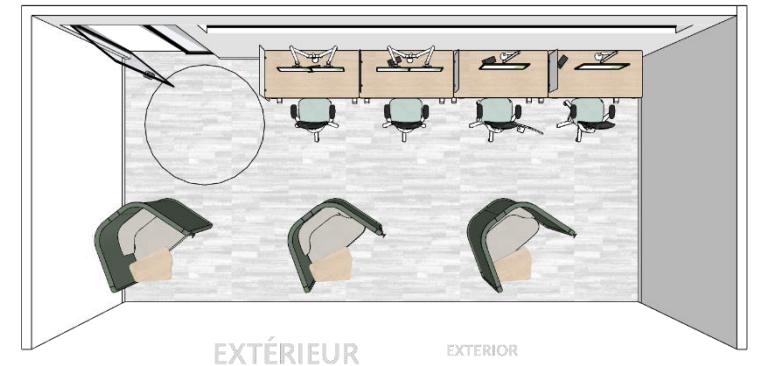
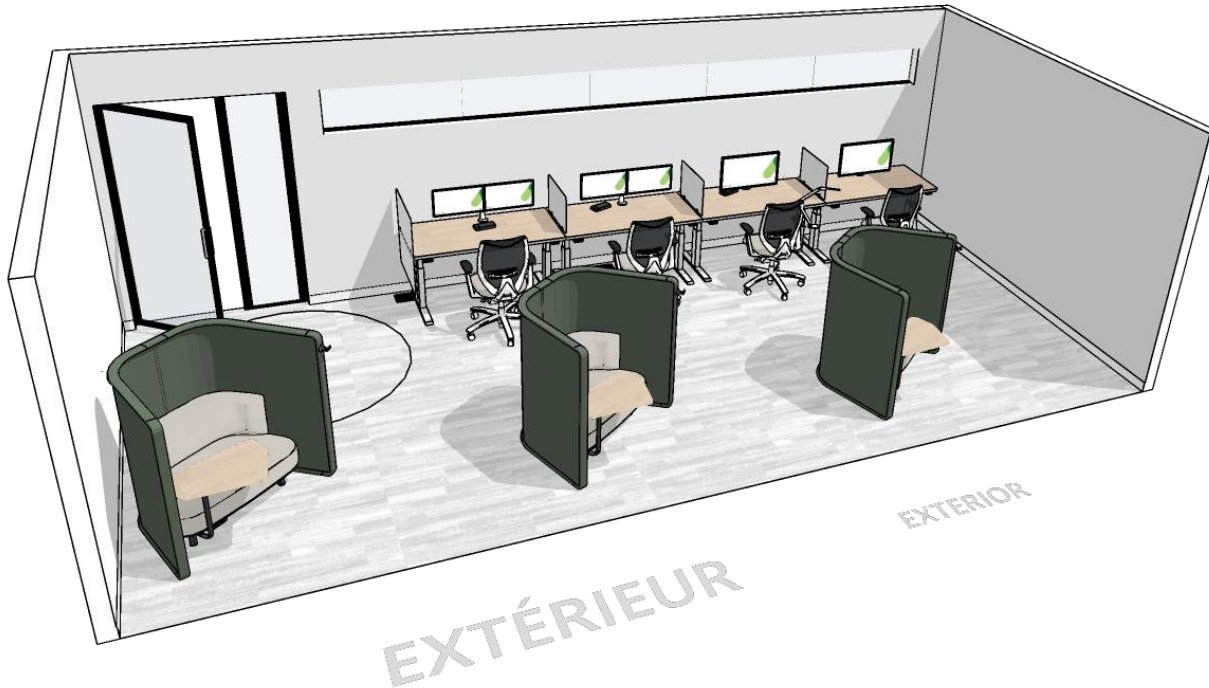
- Refer to General Specifications and Open Office Areas on pages 3 & 4.



ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Controls and outlets 400mm-1200mm (16"- 47") vertical reach;
- Contrasting surround on sliding door with handle;
- Sliding door must open with ease.

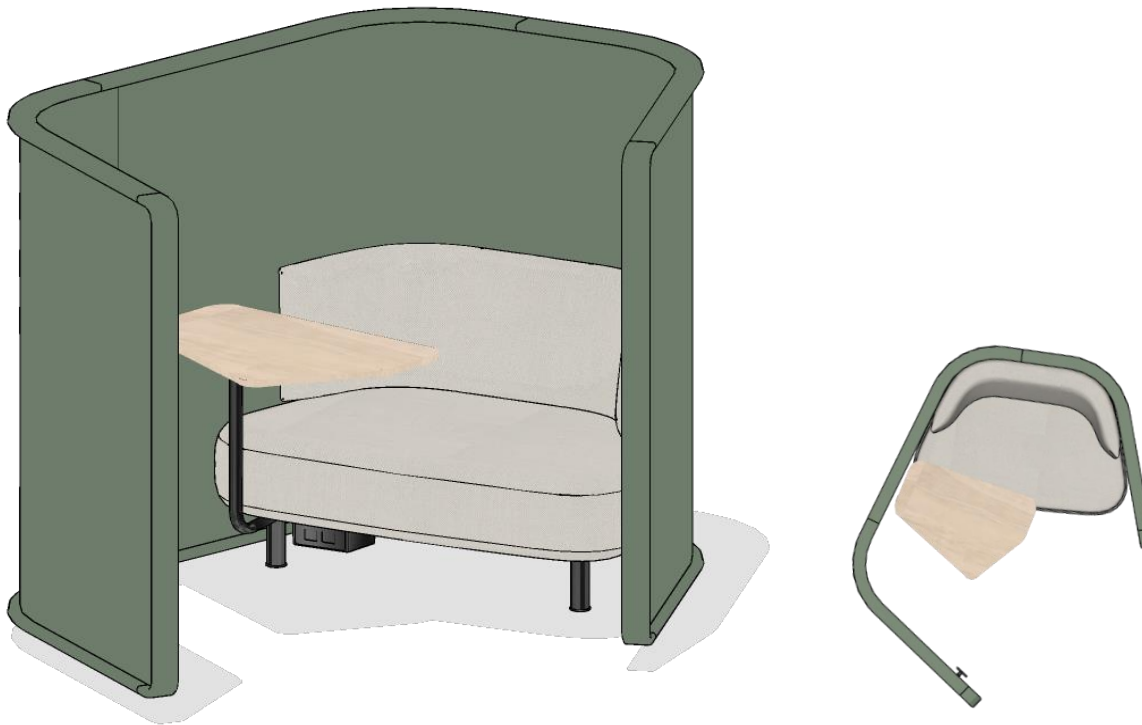
ALTERNATE LAYOUT EXAMPLE:



## DESIGN:

- **Semi-enclosed soft seating furniture solution surrounded by privacy panels;**
- **Optional dimmable task light and ottoman;**
- **Optional adjacent open storage or hooks can be included for bags or purses.**

## EXAMPLE:



## OCCUPANTS: 1

VISUAL PRIVACY: **Low-Medium**ACOUSTIC PRIVACY: **Low (STC N/A)**AVERAGE SIZE: **2.5m<sup>2</sup>**

## TECHNOLOGY:

- **Bring-Your-Own-Device workpoint, no AV or IT technology provided as workpoint is intended for short term use.**

## ELECTRICAL:

**Furniture Requirements:****If Focus Pod(s) are to be powered:**

- **Allow for one (1) circuit per five (5) Focus Pods;**
- **Equip work surface with one (1) USB double outlet and minimum of one (1) duplex receptacle per Focus Pod (where the pod doesn't have an integrated design for outlets, the USB connection can be located at the base);**

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**



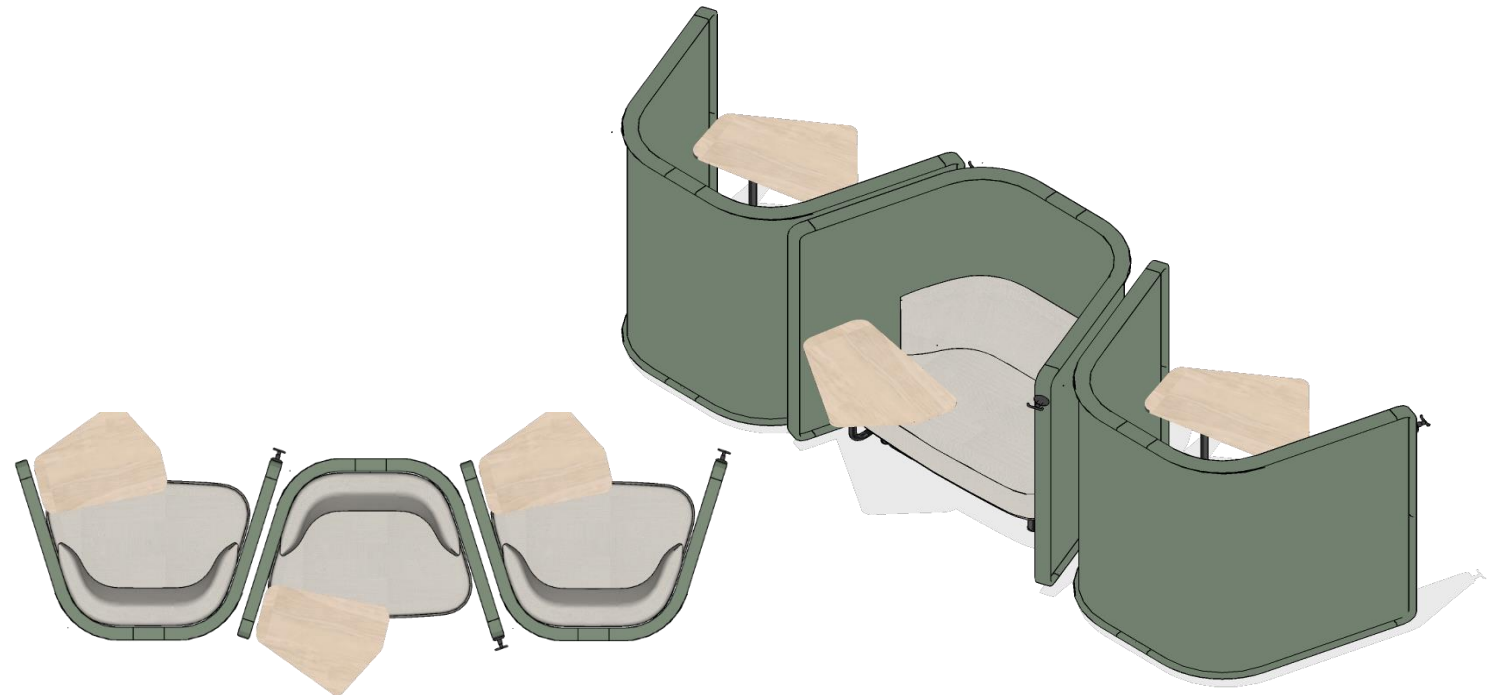
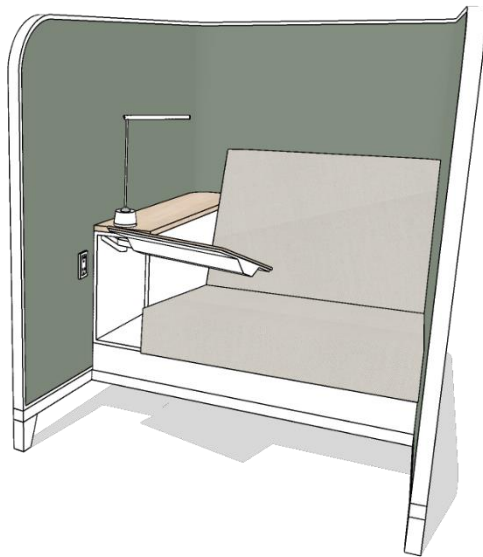
## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) between pods or to separate a group of pods from another zone or workpoint(s);
- Privacy panels shall be non-acoustic class.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Include a variety of Focus Pods some with wider access;
- Shelf/surface height 700-800mm (28"-31");

## ALTERNATE CONFIGURATION EXAMPLES:



## DESIGN:

- **Ideal dimensions:**
  - **Single sided:** 457mm (18") depth by minimum 762mm (30") to 914mm (36") width per occupant.
  - **Double sided:** 914mm (36") depth by minimum 762mm (30") to 914mm (36") width per occupant.
- **Provide power modules at work surface;**
- **Can be fixed benching, narrow table, etc.;**
- **Optional adjacent open storage or hooks can be included for bags or purses.**

## EXAMPLES:



## OCCUPANTS: 2-8

VISUAL PRIVACY: Low

ACOUSTIC PRIVACY: Low (STC N/A)

AVERAGE SIZE: 1.5m<sup>2</sup> per occupant

## TECHNOLOGY:

- **Bring-Your-Own-Device** workpoint.

## ELECTRICAL:

**Furniture Requirements:**

- **Allow for 1 dedicated circuit per maximum 8 seats;**
- **Touchdowns at collaborative tables can have surface integrated power module(s);**
- **Equip work surface with one (1) duplex receptacle or one (1) triplex receptacle within reach of each seat;**
- **Equip work surface with 1 double USB outlet within reach of 2 seats.**

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**

## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) to help separate touchdown workpoints from other zones or workpoints;
- Maximum panel height of 1.37 m (54") cannot be exceeded.

## ACCESSIBILITY:

- Provide at least one grouping or section (at least 2 seats) of a grouping at a desk height between 737mm (29") min., and to not exceed 860mm (34") max. and minimum knee space of 480mm (19");
- Power modules to be located within 500mm (19") of user to be accessible.

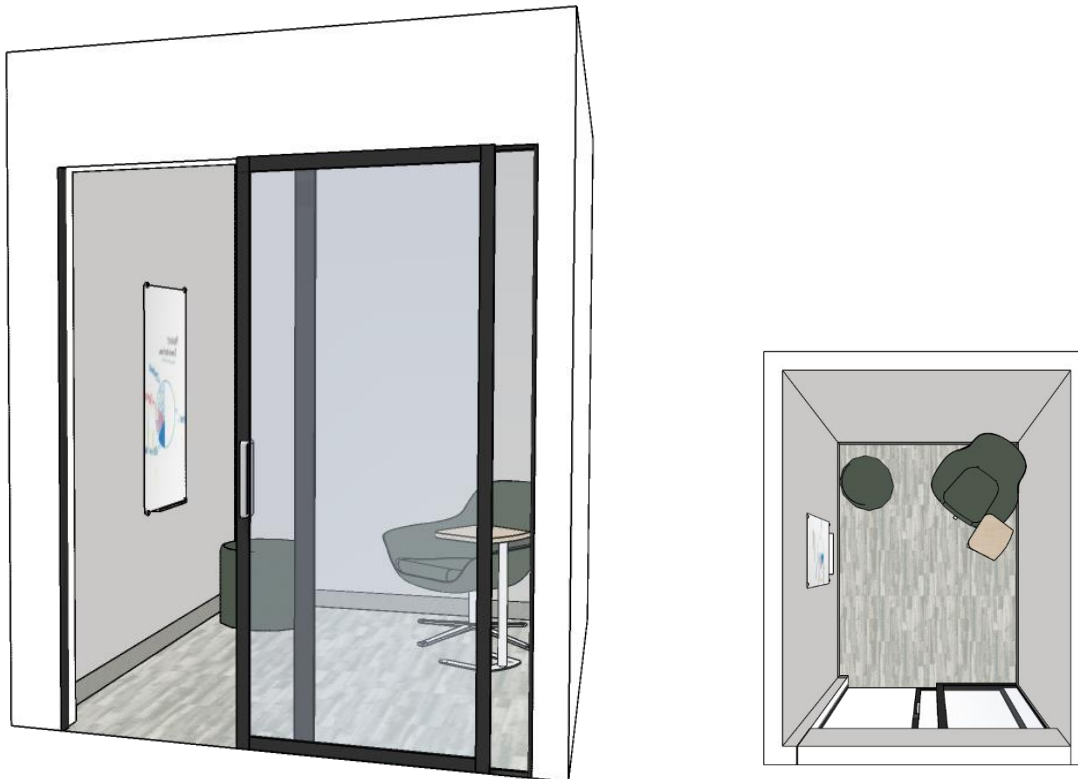
## ALTERNATE CONFIGURATION EXAMPLES:



DESIGN:

- Can be enclosed room with sliding door, or prefabricated solution;
- For enclosed rooms, glazed partition on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);
- Include writable surface on at least one wall;
- Optional dimmable task lighting and ottoman.

EXAMPLE:



OCCUPANTS: 1

VISUAL PRIVACY: Medium

ACOUSTIC PRIVACY: Medium-High (Target: STC 35)

AVERAGE SIZE: 5m<sup>2</sup>

TECHNOLOGY:

- Bring-Your-Own-Device workpoint, no AV or IT technology provided as workpoint is intended for short term use.

ELECTRICAL:

**Prefabricated Solution (ie: phonebooth):**

- Allow for one (1) circuit per five (5) Phone Booths;
- Provide power module(s) to be mounted at the front side of the work surface for accessibility with simplex outlets and a minimum of 1 double USB outlet for connectivity;

**Phone Room Option:**

- Allow for one (1) circuit per five (5) Phone Rooms;
- Equip room walls with a maximum of two (2) standard electrical duplexes;
- Provide power module(s) to be mounted at the front side of the work surface for accessibility with simplex outlets and a minimum of 1 double USB outlet for connectivity;
- Provide one (1) power module to be undermounted at back of work surface. Power module comes with five (5) simplex outlets.

MECHANICAL:

- Refer to General Specifications and Open Office Areas on pages 3 & 4;
- For a prefabricated solution, refer to manufacture's specifications.

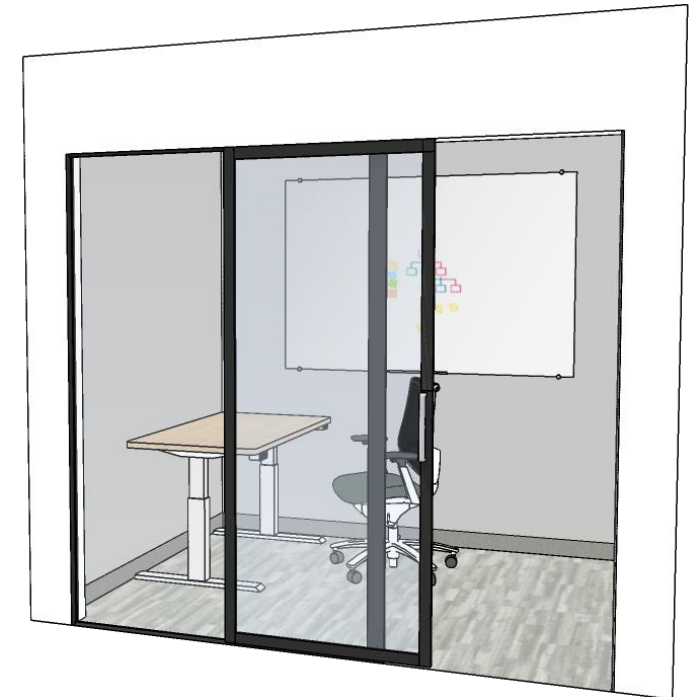
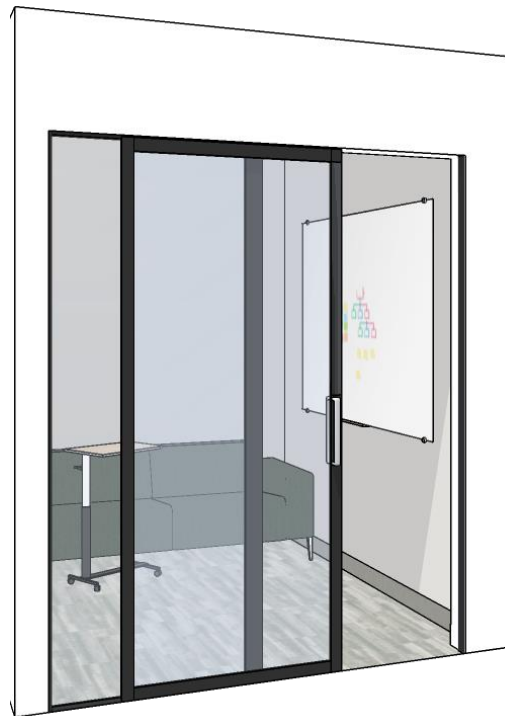
INTERIOR ARCHITECTURE:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Contrasting surround on sliding door with handle;
- Sliding door must open with ease;
- Provide flat threshold to allow mobility device entry;
- Seating on casters when appropriate for larger built-in Phonebooths;
- Shelf/surface height 700-800mm (28"-31").

ALTERNATE LAYOUT EXAMPLES:



## DESIGN:

- **Small, casual, standing or seated workpoint with a small surface.**

## EXAMPLE:

OCCUPANTS: **2-4**VISUAL PRIVACY: **Low**ACOUSTIC PRIVACY: **Low (STC N/A)**AVERAGE SIZE: **4m<sup>2</sup>**

## TECHNOLOGY:

- **Bring-Your-Own-Device workpoint, no AV or IT technology provided as workpoint is intended for short term use.**

## ELECTRICAL:

**Optional Requirements:**

- **Power at tabletop if specified and conditions allow.**
- **A dimmable floor lamp may be considered where layout and access to electrical allows. Cords to be covered accordingly to avoid tripping hazard.**

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**

## INTERIOR ARCHITECTURE:

- **Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) between chat points or to separate a group of chat points from another zone or workpoint(s);**

## ACCESSIBILITY:

- **Seating on casters when appropriate.**

ALTERNATE LAYOUT EXAMPLES:

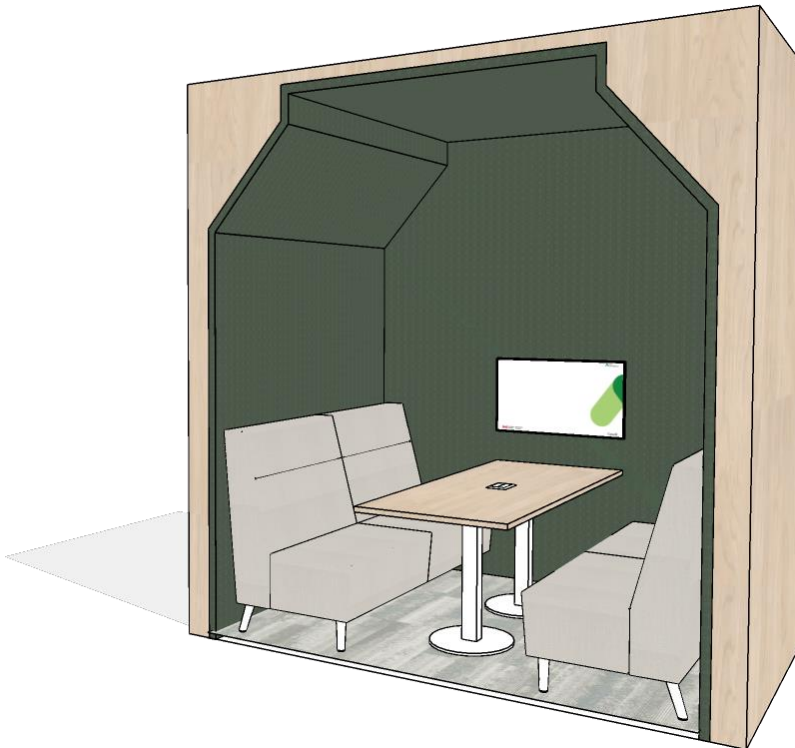




## DESIGN:

- Semi-enclosed booth or furniture solutions with visual privacy on 3 sides;
- Include a shared worksurface and soft seating.

## EXAMPLE:



OCCUPANTS: 4

VISUAL PRIVACY: Low-Medium

ACOUSTIC PRIVACY: Low (STC N/A)

AVERAGE SIZE: 5m<sup>2</sup>

## TECHNOLOGY:

- Bring-Your-Own-Device workpoint;
- For additional workstation technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Provide power & USB charging at work surface if work surface permits.

## Huddle Requirements:

- Allow for one (1) circuit per two (2) huddles if monitor is required OR one (1) circuit per four (4) huddles without monitor;

## Where applicable equip:

- One (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets dedicated to each display;
- One (1) standard electrical duplex receptacles and one (1) double USB outlet in the wall at work surface level height;
- Direct/indirect suspended lamp(s) to suit meeting table function on a separate dimmable switch/light control.

## MECHANICAL:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) between huddles or to provide separation from another zone or workpoint(s);

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Provide one space where a forward approach of 1350mm (53") (up to 480mm (19") under the table) can be maintained and has a clear knee space 800mm (32") wide x 480mm (19") deep. Space should not encroach into circulation routes.;
- Power modules to be located within 500mm (19") of user to be accessible.

## ADDITIONAL LAYOUT EXAMPLE:



## DESIGN:

- Various collaborative work tools incorporated in the area, such as display monitor(s), interactive touchscreen, whiteboards, etc.;
- Consider a section offering arm rests and/or tablet arms or small moveable and adjustable tables;
- May include various work surfaces that are fixed or moveable;
- Provide credenza for storage of IT and/or audio-visual equipment as required. Always verify with furniture and IT resources to determine requirements for each project.

## EXAMPLE:



OCCUPANTS: 6-10

VISUAL PRIVACY: Low-Medium

ACOUSTIC PRIVACY: Low (STC N/A)

AVERAGE SIZE: 15m<sup>2</sup>

## TECHNOLOGY:

- For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Power and USB receptacle can be incorporated in furniture solution (if applicable).

## Where applicable:

- Allow for two (2) circuits per Teaming Area;
- Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets with dedicated circuit to each display;
- Provide three (3) electrical duplex receptacles with USB charging per teaming area if architecture permits.

## MECHANICAL:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

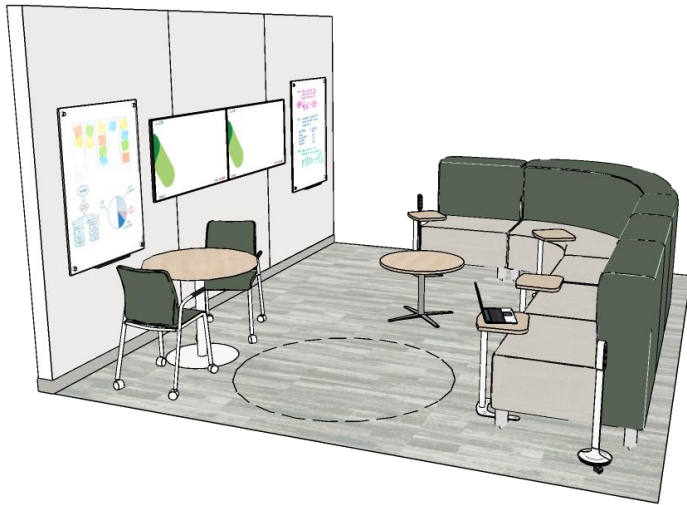
## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) to help separate teaming area(s) from other zones or workpoints;

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Provide mobile, height adjustable laptop tables;
- Controls and outlets 400mm-1200mm (16"-47") vertical reach;
- Power modules to be located within 500mm (19") of user to be accessible;
- Semi-circle seating arrangement can be angled slightly to allow for free space at one end for mobility device or additional chair.

## ALTERNATE LAYOUT EXAMPLES:





## DESIGN:

- Provide a variety of dining furniture such as soft seating, small tables, and chairs with and without armrests;
- Lounges can be found anywhere in both the Interactive and Transitional zone(s) however there must be one at least 10m<sup>2</sup> with each kitchenette.
- Furniture should be easy to clean.

## EXAMPLE:



## OCCUPANTS: 10+

VISUAL PRIVACY: Low

ACOUSTIC PRIVACY: Low (STC N/A)

AVERAGE SIZE: 10m<sup>2</sup>

## TECHNOLOGY:

- For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Power and USB receptacle to be incorporated in furniture solution (if applicable).

## Room Requirements:

- Allow for one (1) dedicated circuit per 15m<sup>2</sup> of Lounge space;
- Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets dedicated to each display;
- Provide three (3) electrical duplex receptacles with USB charging on walls if architecture permits.

## MECHANICAL:

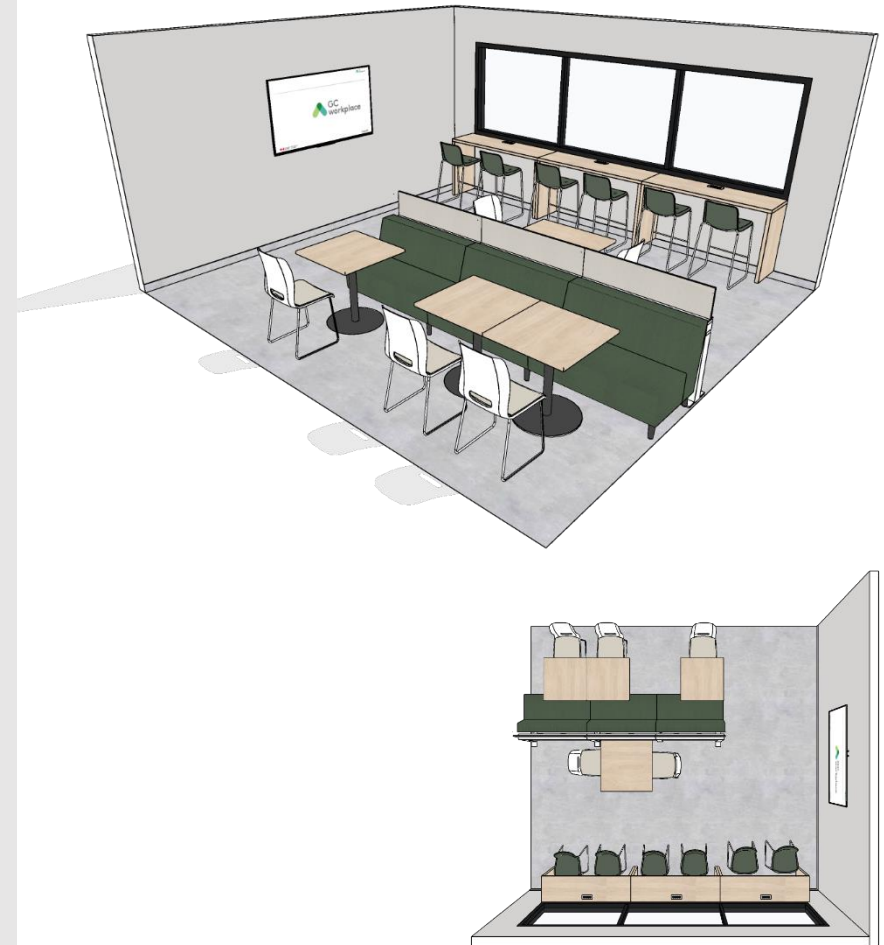
- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## INTERIOR ARCHITECTURE:

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) to help separate lounges from other zones or workpoints.

**ACCESSIBILITY:**

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Clear 685mm (27") from finished floor to underside of table for knee space;
- Offer a variety of accessible table heights (ie: table height, counter height, bar height), while prioritizing table height options;
- Consider having more space for each seat at the table (762mm-812mm instead of 609mm-711mm / 30"-32" instead of 24"-28");
- Consider offering a variety of table bases.

**ALTERNATE LAYOUT EXAMPLE:**

## DESIGN:

- **Work surface, conference chairs and a large screen display;**
- **Consider sliding door to optimize space;**
- **Glazed partition on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);**
- **Include writable surface on at least one wall;**
- **Provide appropriate dimmable task and/or accent lighting.**

## EXAMPLE:



## OCCUPANTS: 4-6

VISUAL PRIVACY: **Medium-High**ACOUSTIC PRIVACY: **Medium (Target: STC 35)**AVERAGE SIZE: **16m<sup>2</sup>**

## TECHNOLOGY:

- **For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).**

## ELECTRICAL:

**Furniture Requirements:**

- **Power and USB receptacles to be incorporated in furniture solution (if applicable).**

**Room Requirements:**

- **Allow for one (1) circuit per Work Room;**
- **Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets with dedicated circuit to each display;**
- **Equip room walls with a maximum of two (2) standard electrical duplex receptacles with USB charging;**
- **Provide one (1) image/voice/data outlet per workstation (if required by client).**



## MECHANICAL:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.
- **Note: Mechanical must be designed specifically for enclosed meeting rooms.**

## INTERIOR ARCHITECTURE:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the **CSA/ASC B651:23 Accessibility Standard.**
- **Contrasting surround on sliding door with handle;**
- **Sliding door must open with ease;**
- **Controls and outlets 400mm-1200mm (16"-47") vertical reach;**
- **For work surface and table mounted power locations, power modules to be located within 500mm (19") of user to be accessible;**
- **Illumination 200 lux;**
- **Clear 685mm (27") from finished floor to underside of table for knee space;**
- **Consider use of pedestal bases and a desk height between 737mm (29") min., and to not exceed 860mm (34") max. to ensure maximum accessibility.**

## ALTERNATE LAYOUT EXAMPLES:



## DESIGN:

- Enclosed room with demountable and/or drywall partitions;
- Consider sliding door to optimize space;
- Glazed partition on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);
- Provide writable walls or mobile whiteboards;
- Provide appropriate dimmable task and/or accent lighting.

## EXAMPLE:



## OCCUPANTS: 6-10

VISUAL PRIVACY: Medium-High

ACOUSTIC PRIVACY: Medium (Target: STC 35)

AVERAGE SIZE: 20m<sup>2</sup>

## TECHNOLOGY:

- For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Power and USB receptacles to be incorporated in furniture solution (if applicable).

## Room Requirements:

- Allow for one (1) circuit per Project Room;
- Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets with dedicated circuit to display;
- Equip room walls with a maximum of three (3) standard electrical duplex receptacles with USB charging;
- Provide one (1) image/voice/data outlet per workstation (if required by client).

## MECHANICAL:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.
- **Note: Mechanical must be designed specifically for enclosed meeting rooms.**

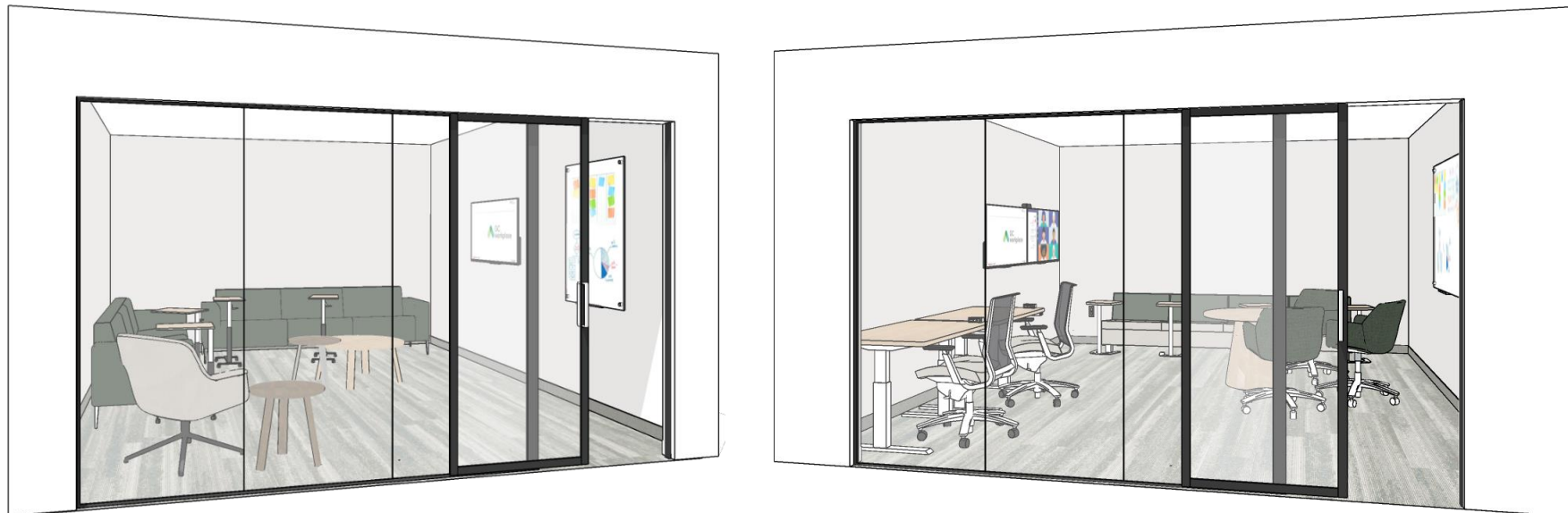
## INTERIOR ARCHITECTURE:

- Refer to **General Specifications and Open Office Areas** on pages 3 & 4.

## ACCESSIBILITY:

- For up-to-date aisles widths and turning diameters, please refer to the **CSA/ASC B651:23 Accessibility Standard. Seating and mobile furniture on casters when appropriate;**
- **Controls and outlets 400mm-1200mm (16"-47") vertical reach;**
- **For work surface and table mounted power locations, power modules to be located within 500mm (19") of user to be accessible;**
- **Contrasting surround on sliding door with handle;**
- **Sliding door must open with ease.**

## ALTERNATE LAYOUT EXAMPLES:



## DESIGN:

- Enclosed room with demountable and/or drywall partitions;
- Consider sliding door to optimize space;
- Provide mobile tables reconfigurable into various layouts (training, presentations, etc.);
- Glazed partition on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);
- Provide credenza for storage of IT and/or audio-visual equipment as required. Always verify with furniture and IT resources to determine requirements for each project;
- Videoconferencing layout and furniture solution to store mobile technology.

## EXAMPLE:



## OCCUPANTS: 10-12

VISUAL PRIVACY: Medium-High

ACOUSTIC PRIVACY: Medium-High (Target: STC 45)

AVERAGE SIZE: 32m<sup>2</sup>

## TECHNOLOGY:

- For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Power, data and USB receptacles to be incorporated in furniture solution (if applicable);

## Room Requirements:

- Allow for three (3) circuits per Medium Meeting Room;
- Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets with dedicated circuit to each display;
- Equip room walls with a maximum of four (4) standard electrical duplex receptacles with USB charging;
- Provide a maximum of two (2) standard floor mounted electrical duplex receptacle;
- Provide Image/voice/data outlets if required by client (to be assessed on project-by-project basis).

## ELECTRICAL cont.:

- **Direct/indirect suspended luminaire(s) to suit meeting table function on a separate switch/light control and motion sensor;**
- **Dimmable perimeter/accent lighting to support presentation function on a separate switch/light control and motion sensor.**

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4;**
- **Note: Mechanical must be designed specifically for enclosed meeting rooms.**

## INTERIOR ARCHITECTURE:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**

## ACCESSIBILITY:

- **For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.**
- **Outlets and controls 400-1200mm (16"-47") vertical reach;**
- **For accessible user locations, power modules to be located within 500mm (19") of user;**
- **Clear 685mm (27") from finished floor to underside of table for knee space;**
- **Height adjustable conference-type chairs on casters;**
- **Sliding doors with contrasting edging and handle;**
- **Sliding door must open with ease.**

## ALTERNATE LAYOUT EXAMPLES:



## DESIGN:

- Enclosed room with demountable and/or drywall partitions;
- Include two doors at opposite ends of room, consider sliding door to optimize space;
- Glazed partition on at least one wall to allow light penetration (privacy film to be applied in accordance with applicable codes and standards);
- Include writable surface on at least one wall;
- Include banquette or other secondary seating and mobile height-adjustable laptop tables along one wall for additional guest seating;
- Provide credenza for storage of IT and/or audio-visual equipment as required. Always verify with furniture and IT resources to determine requirements for each project;
- Videoconferencing layout and furniture solution to store mobile technology.

## EXAMPLE:



## OCCUPANTS: 20+

VISUAL PRIVACY: Medium-High

ACOUSTIC PRIVACY: Medium-High (Target: STC 45)

AVERAGE SIZE: 60m<sup>2</sup>

## TECHNOLOGY:

- For additional technology requirements, please refer to the [GCworkplace Workpoint IT Requirement](#).

## ELECTRICAL:

## Furniture Requirements:

- Power, data and USB receptacles to be incorporated in furniture solution (if applicable).

## Room Requirements:

- Allow for four (4) circuits per Large Meeting Room;
- Provide one (1) quadruplex receptacle OR two(2) standard duplex receptacle outlets with dedicated circuit to each display;
- Equip room walls with a maximum of five (5) standard electrical duplex receptacles with USB charging;
- Provide a maximum of three (3) standard floor mounted electrical duplex receptacle;
- Provide Image/voice/data outlets if required by client (to be assessed on project-by-project basis).



## ELECTRICAL cont.:

- **Direct/indirect suspended luminaire(s) to suit meeting table function on a separate switch/light control and motion sensor (additional circuit(s) may be required);**
- **Dimmable perimeter/accent lighting to support presentation function on a separate switch/light control and motion sensor (additional circuit(s) may be required).**

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4;**
- **Note: Mechanical must be designed specifically for enclosed meeting rooms.**

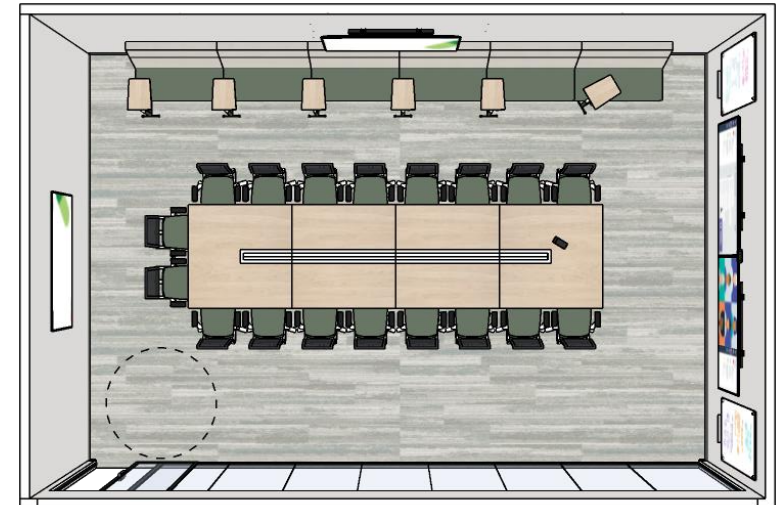
## INTERIOR ARCHITECTURE:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**

## ACCESSIBILITY:

- **For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.**
- **Assistive listening system;**
- **Outlets and controls 400-1200mm (16"-47") vertical reach;**
- **For accessible user locations, power modules to be located within 500mm (19") of user;**
- **Clear 685mm (27") from finished floor to underside of table for knee space;**
- **Height adjustable conference-type chairs on casters;**
- **Consider arm rests and back support for secondary seating where space allows;**
- **Consider accessible tables and table bases and areas that are conducive to reconfiguration;**
- **Sliding doors with contrasting edging and handle;**
- **Sliding doors must open with ease.**

## ALTERNATE LAYOUT EXAMPLE:





## DESIGN:

- **Kitchen facilities for use by employees for food storage and preparation;**
- **Access to daylight and views when possible and/or glazed partition on at least one wall to allow light penetration;**
- **Enclosed or semi-enclosed space with visual separation from workspaces;**
- **Includes sink(s), space for refrigerator(s) and microwave(s), millwork and counter space;**
- **Include Recycling centre.**

## BENCHMARKS:

**1-24 occupants**

- **One** 5m<sup>2</sup>
- 5 lin.ft. (1.5m) millwork
- One refrigerator
- One microwave
- Recycling centre

**25-49 occupants**

- **One** 10m<sup>2</sup>
- 5-8 lin.ft. (1.5m-2.5m) millwork
- Max. 2 refrigerators
- Max. 2 microwaves
- Recycling centre

**50-149 occupants**

- **One** 15m<sup>2</sup>
- 12-16 lin.ft. (3.5m-5m) millwork
- Max. 3 refrigerators
- Max. 3 microwaves
- Recycling centre

**150-299 occupants**

- **Two** 15m<sup>2</sup>, each with
- 12-16 lin.ft. (3.5m-5m) millwork each
- Max. 2 refrigerators each
- Max. 2 microwaves each
- One Recycling centre each

SEE NEXT PAGE FOR ELEVATION AND DETAILS.

OCCUPANTS: **N/A**

(Not included in occupancy calculation)

VISUAL PRIVACY: **Medium**

ACOUSTIC PRIVACY: **Low - Medium**

TECHNOLOGY: **N/A**

## ELECTRICAL REQUIREMENTS:

- Standard dedicated circuit duplex receptacles to suit quantity of refrigerators and microwaves;
- Standard 5-20R duplex or 5-15R duplex with GFCI protection (GFCI where required by Canadian Electrical Code CSA C22.1); Duplex receptacles for other countertop appliances to suit client requirements;
- Under cabinet lighting with motion sensor (optional).

## MECHANICAL:

- Hot water, cold water, drain and vent piping for kitchen sink (see building code requirements for kitchen plumbing requirements)
- Exhaust fan when required where required.

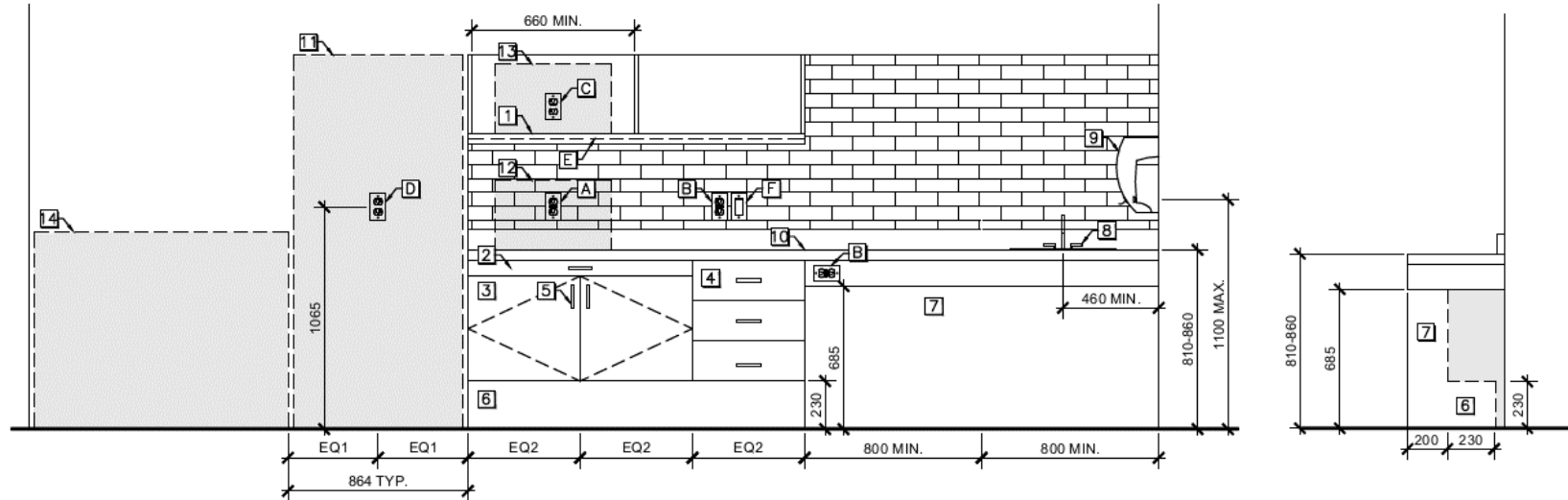
## FINISHES:

- Provide acoustic treatment for sound absorption, such as ceiling hung or wall mounted acoustical panels, etc.;
- Solid surface or plastic laminate counters and plastic laminate or engineered wood cabinets. Refer to Section A5.1 in the Fit-up Standards for further details.

## ACCESSIBILITY:

- For up to date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Min. illumination 300 lux;
- High contrast controls;
- Varied heights between counter and island to ensure range accommodates as many users as possible;
- Any items stored in upper cabinets/shelves (plates, cups, etc.) to also be available at a lower reach.

EXAMPLE:



LEGEND

1	Open shelving complete with small under shelf valance. Finish all visible edges and sides. Min. width of 660mm when accommodating for microwave.
2	Counter space shall be provided beside the latch edge of the microwave door, or in the form of a pull-out shelf under the microwave door which is the same width as the microwave or greater and pulls out at least 250 mm.
3	Lower cabinet complete with pre-drilled holes to accept adjustable shelf support clips. Finish all visible edges and sides. Include one shelf.
4	Lower drawers. Drawer configuration to suit client requirement.
5	D-type pulls mounted close to the top of base cabinets, close to bottom of upper cabinets.
6	Toe space at least 230mm high and 150mm deep is required at front of lower cabinets. Under sink and counter area with knee space, a toe space of 800mm wide x 230mm deep x 230mm high is also required.
7	A minimum knee space of 800mm wide x 200mm deep x 685mm high is required at sink. An additional 800mm wide x 200mm deep x 685mm high knee space is required under the counter. These can be combined into one area measuring at least 1600mm wide.
8	Sink complete with lever style controls that are operable with a closed fist or automatically activated, touchless. Preference is for touchless features. Centerline to be located at least 460mm from adjacent side wall with a rim height located between 810mm and 860mm A.F.F..
9	Paper towel and soap dispenser. To be located at a maximum reach of 500mm from the sink, with controls located no higher than 1100mm A.F.F, and are either automatically operated, touchless or operable with a closed fist. Preference is for touchless.
10	Counter-top c/w backsplash and valance at open areas. Thickness, profile and backsplash height to be determined on a per project basis.
11	Fridge (N.I.C.) Side-by-Side style fridge recommended. If over/under style fridge specified, then consider freezer at bottom. At least 1 freezer and 1 fridge shelf space must be no higher than 1100mm A.F.F.. Fridge style should be considered when planning opening dimensions.
12	Microwave (N.I.C.). Primary location.
13	Microwave (N.I.C.). Secondary location. To be used only if a primary microwave is also installed at counter height.
14	Waste/recycle unit (N.I.C.).

LEGEND - ELECTRICAL

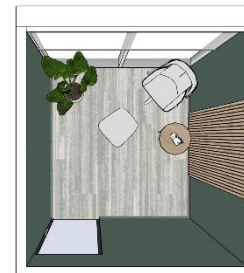
A	Dedicated 15A GCFI duplex receptacle for microwave.
B	15A GCFI duplex receptacle. At least one receptacle to be installed on or near to the front edge of counter-top, or side of millwork cabinet. Reach to be no greater than 500mm. Clear counter space should be available near the counter-top outlet for the use of small appliances.
C	Dedicated 15A duplex receptacle if required for secondary microwave.
D	Dedicated 15A duplex receptacle for fridge.
E	Low-watt led profile or strip under cabinet lighting complete with dimming.
F	Control for under cabinet lighting.

The included dimensions are taken from the **CAN/CSA B651 Accessible design for the built environment - Please refer to clauses referencing Kitchens for all CAN/CSA B651 requirements.**

## DESIGN:

- Enclosed room with demountable and/or drywall partitions and visual privacy;
- Ideal dimension is minimum 2.74m x 2.74m (9'x9');
- Dimmable lighting in the room;
- Provide adjustable (color and intensity) accent lighting, such as LED color strip, or indirect lighting sources such as table lamp or floor lamp with LED color light bulb;
- Include a high-back lounge chair, ottoman and small tables to put down water bottle, phone, etc.;
- Automatic occupied indicator as door should not be lockable;
- Side door glazing (side light) with privacy film (can be full or ¾ privacy film for seated privacy).

## EXAMPLES:



## OCCUPANTS: 1

VISUAL PRIVACY: Medium-High

ACOUSTIC PRIVACY: Medium (Target: STC 35)

AVERAGE SIZE: 7.5m<sup>2</sup>

## TECHNOLOGY:

- No technology use.

## ELECTRICAL:

- Equip one (1) standard electrical duplex receptacle on a wall;
- Base building lighting must be on separate circuit to allow user to adjust the intensity;
- Consider adding LED accent lighting with controls for user adjustability or rewiring existing light fixture;
- A floor lamp may be considered where layout and access to electrical allows. Cords to be covered accordingly to avoid tripping hazard.

## MECHANICAL:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## INTERIOR ARCHITECTURE:

- Refer to General Specifications and Open Office Areas on pages 3 & 4.

## ACCESSIBILITY:

- For up to date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Contrasting surround on sliding door with handle;

## SUPPORT SPACE

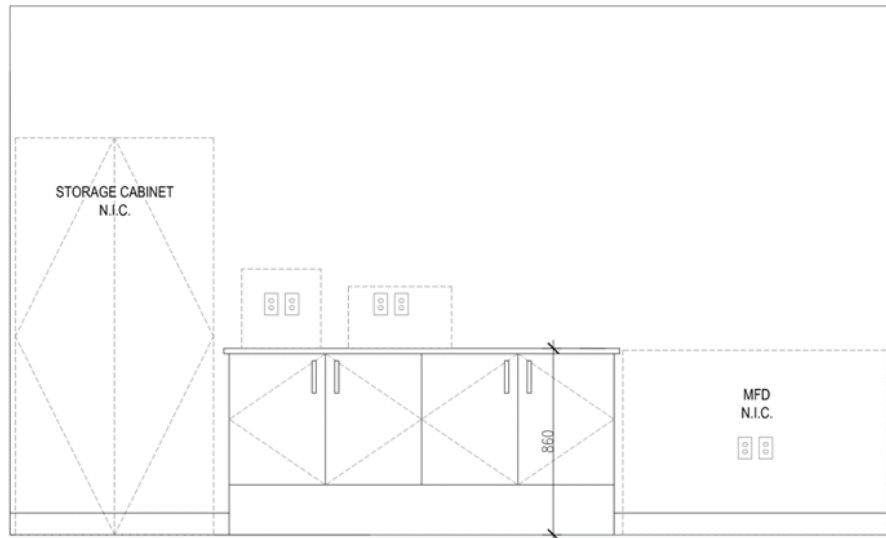
## EQUIPMENT AREA

### DESIGN:

- **Business Centre with office supplies and layout space;**
- **Provide power for equipment; multi-function device, shredder, etc.;**
- **Include storage furniture and layout surface.**

### BENCHMARK:

- **Up to One Equipment area for every 50 target population (or approximately 500m<sup>2</sup> of floor area);**
- **Minimum of one equipment area that is semi-enclosed per floor, with supply storage and a collating surface: 1,800 to 2,400 linear mm (6' to 8') of counter and lower storage.**



### GENERAL NOTES:

- MAXIMUM FORWARD REACH 500mm
- MAXIMUM HEIGHT CONTROLS 1200mm FROM FLOOR
- HIGH CONTRAST FOR CONTROLS (AUDIO AND VISUAL SIGNALS ARE PREFERRED)
- MINIMUM SPACE CLEARANCE OF 1700mm OUTWARDS FROM EDGE OF COUNTER
- MINIMUM ILLUMINATION 200 LUX
- "D" TYPE HANDLES FOR ALL DRAWERS OR PULL-OUT SHELVES

OCCUPANTS: **N/A**

(Not included in occupancy calculation)

VISUAL PRIVACY: **Low- Medium**

ACOUSTIC PRIVACY: **Medium**

AVERAGE SIZE: **5m<sup>2</sup>**

POSTURE: **N/A**

TECHNOLOGY:

- **LAN;**
- **Printer and/or Multi-function device;**
- **Shredder;**
- **Plotter (optional).**

ELECTRICAL:

- **Provide electrical duplex receptacles to meet equipment needs (to be assessed on project-by-project basis);**
- **Provide image/voice/data outlets to meet equipment needs (to be assessed on project-by-project basis).**

MECHANICAL:

- **Exhaust for photocopier to exterior may be required for enclosed photocopying spaces or where photocopying and printing processes rates and volumes are high, where feasible.**

## ACCESSIBILITY:

- **Height of controls 400-1200mm (16''-47'');**
- **Clear area 1350mm x 1350mm (53'' x 53'');**
- **Any items stored in upper cabinets/shelves (paper, supplies, etc.) to also be available at a lower reach.**

## FINISHES:

- **Solid surface or plastic laminate counters and plastic laminate or engineered wood cabinets. Refer to [Section A5.1 in the Fit-up Standards](#) for further details.**

## DESIGN:

- Double-height locker units are the default option in the [GCworkplace Space Planning Workbook](#);
- Individual storage in a centralized area. Generally, a 1:1 ratio of double-height lockers to target occupancy is recommended;
- Provide a variety of locker types and sizes to suit group's mobility level and requirements (refer to the GCworkplace Design Guide for additional information);
- Provide benches;
- Provide coat closets adjacent to lockers and/or main entrance point(s);
- May include smaller lockers for visitors;
- The space may be semi-enclosed or enclosed to reduce sound transmission.

## EXAMPLE:



## OCCUPANTS: N/A

(Not included in occupancy calculation)

VISUAL PRIVACY: **Low**

ACOUSTIC PRIVACY: **Low**

AVERAGE SIZE: **0.5m<sup>2</sup> per occupant**

TECHNOLOGY: **N/A**

## MECHANICAL:

- Refer to **General Specifications and Open Office Areas on pages 3 & 4.**

## INTERIOR ARCHITECTURE:

- Refer to **General Specifications and Open Office Areas on pages 3 & 4.**



**ACCESSIBILITY TIPS:**

- For up-to-date aisles widths and turning diameters, please refer to the CSA/ASC B651:23 Accessibility Standard.
- Recommended character height of 50mm for locker numbering. Numbering should be tactile and high contrasting with adjacent finish;
- Locker door finish should contrast with surrounding cabinets, handle or locking device, and wall finishes;
- Locker handle should be operable with 1 hand, and not require a tight grasp, pinching or twisting action;
- Low rod in one section of closet;
- Removable coat hangers (not attached to rod);
- Controls and shelves should be easily reachable;
- Avoid dead end corridors.

**INTERIOR ARCHITECTURE:**

- Consider interior architectural solutions for defining space and controlling sightlines and for sound absorption (i.e. wall hung, suspended panels or other room dividers) to help separate locker areas from other zones or workpoints.

**LOCKER OPTION EXAMPLES:  
(VARIES BY PRODUCT)**

- Coat Rod
- Boot Tray
- Boot Storage
- Shelving
- Hooks
- Bins
- Keyless Lock
- Etc...



**LOCKER UNIT TYPE EXAMPLES:**



Full Height



Half Height



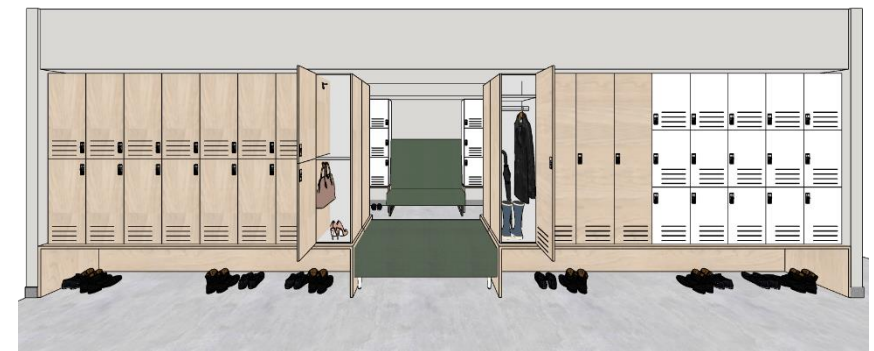
3-High



4-High



5-High



## DESIGN:

- **Optional centralized filing to be provided only as required by group's paper storage needs (in line with an active digitization / IM modernization strategy) or for supply storage;**
- **Filing can be grouped with a common surface to provide layout space (3-high cabinets);**
- **Ensure common surface does not overhang over drawer openings;**
- **Individual filing drawers available for personal lockers, if required.**

## EXAMPLES:



## OCCUPANTS: N/A

(Not included in occupancy calculation)

VISUAL PRIVACY: N/A

ACOUSTIC PRIVACY: N/A

AVERAGE SIZE: 5m<sup>2</sup>

TECHNOLOGY: N/A

## MECHANICAL:

- **Refer to General Specifications and Open Office Areas on pages 5 & 6.**

## INTERIOR ARCHITECTURE:

- **Refer to General Specifications and Open Office Areas on pages 3 & 4.**

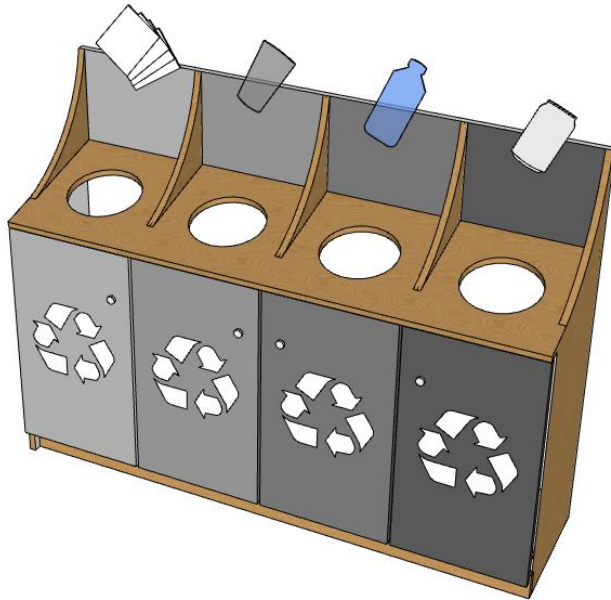
## ACCESSIBILITY TIPS:

- **Provide alternative lower layout surface where space permits;**
- **Max. filing height to be 3-high cabinets.**

## DESIGN:

- Centralized communal waste and recycling units;
- One unit to be adjacent to kitchenette(s)/lounge(s);
- Garbage receptacles for wet garbage located in food preparation areas require a tight fitting lid
- Consider placement near circulation/entrances for convenience of use;
- Open area, approximately 1 unit per 200m<sup>2</sup>;
- Allow for disposal of waste, paper recycling and plastic recycling.

## EXAMPLE:



OCCUPANTS: N/A

(Not included in occupancy calculation)

VISUAL PRIVACY: N/A

ACOUSTIC PRIVACY: N/A

AVERAGE SIZE: 0.5m<sup>2</sup>

TECHNOLOGY: N/A

## MECHANICAL:

- Refer to **General Specifications and Open Office Areas on pages 3 & 4.**

## INTERIOR ARCHITECTURE:

- Refer to **General Specifications and Open Office Areas on pages 3 & 4.**

## ACCESSIBILITY TIPS:

- **Max. forward reach 500mm (19").**

[GCworkplace Design Guide](#)

[Government of Canada Workplace Fit-up Standards](#)

[GCworkplace Best Practices Checklist](#)

[GCworkplace Space Planning Workbook](#)

[GCworkplace Workpoint IT Requirement](#)

[Technical Reference for Office Building Design \(TRFOBD\)](#)