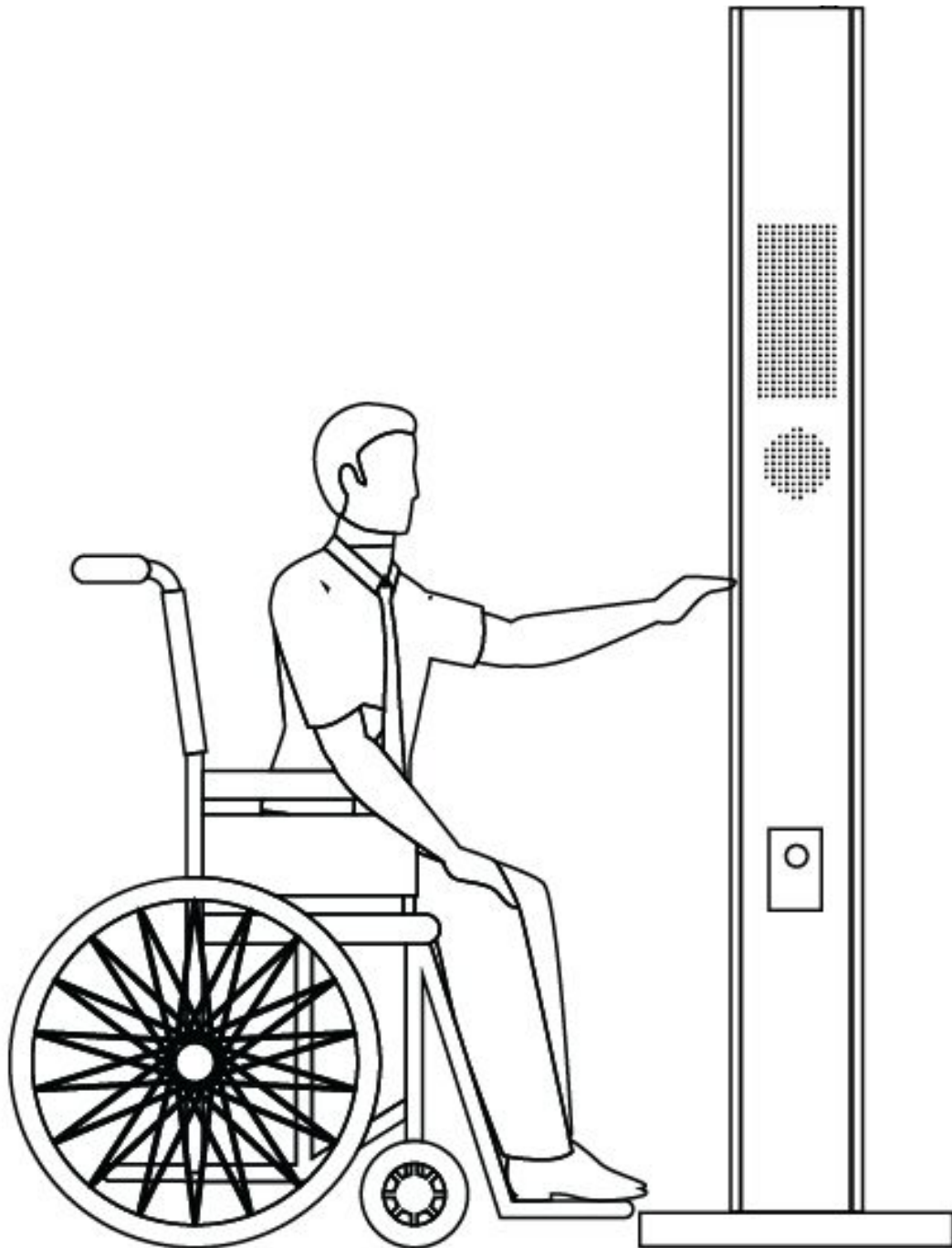




Accessible Design & Guidance for Outdoor Kiosks





The Americans with Disabilities Act (ADA) applies to all local, county, state, and federal government agencies, and also covers companies with 15 or more employees.

As a world-leader in digital kiosk manufacturing and touchscreen software Eflyn has developed a Hardware/Software hybrid framework to ensure kiosk installations are ADA compliant for clients who must comply with these requirements.

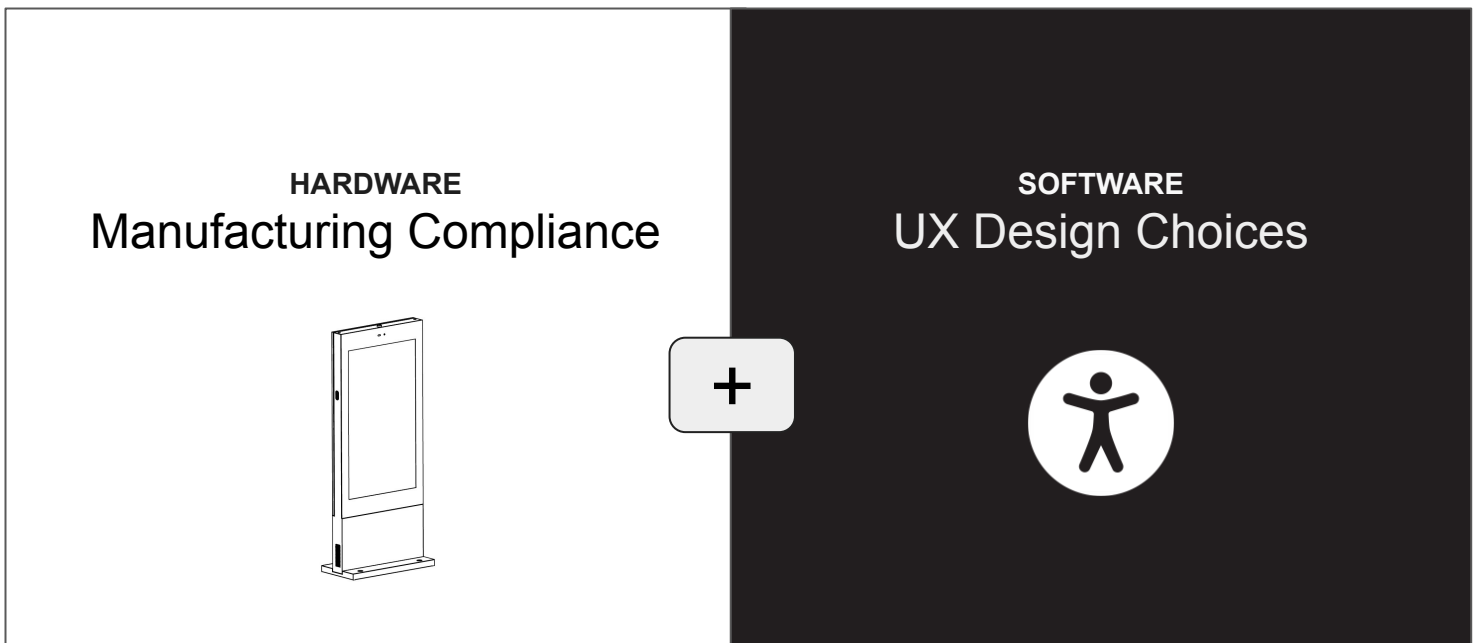


Our Hybrid Approach to ADA Compliance for Kiosk Machines

Our Portrait vertical outdoor digital signage V8 series kiosks conform to ADA and European Telecommunications Standards Institute guidelines potentially with a secondary or alternative navigational scheme.

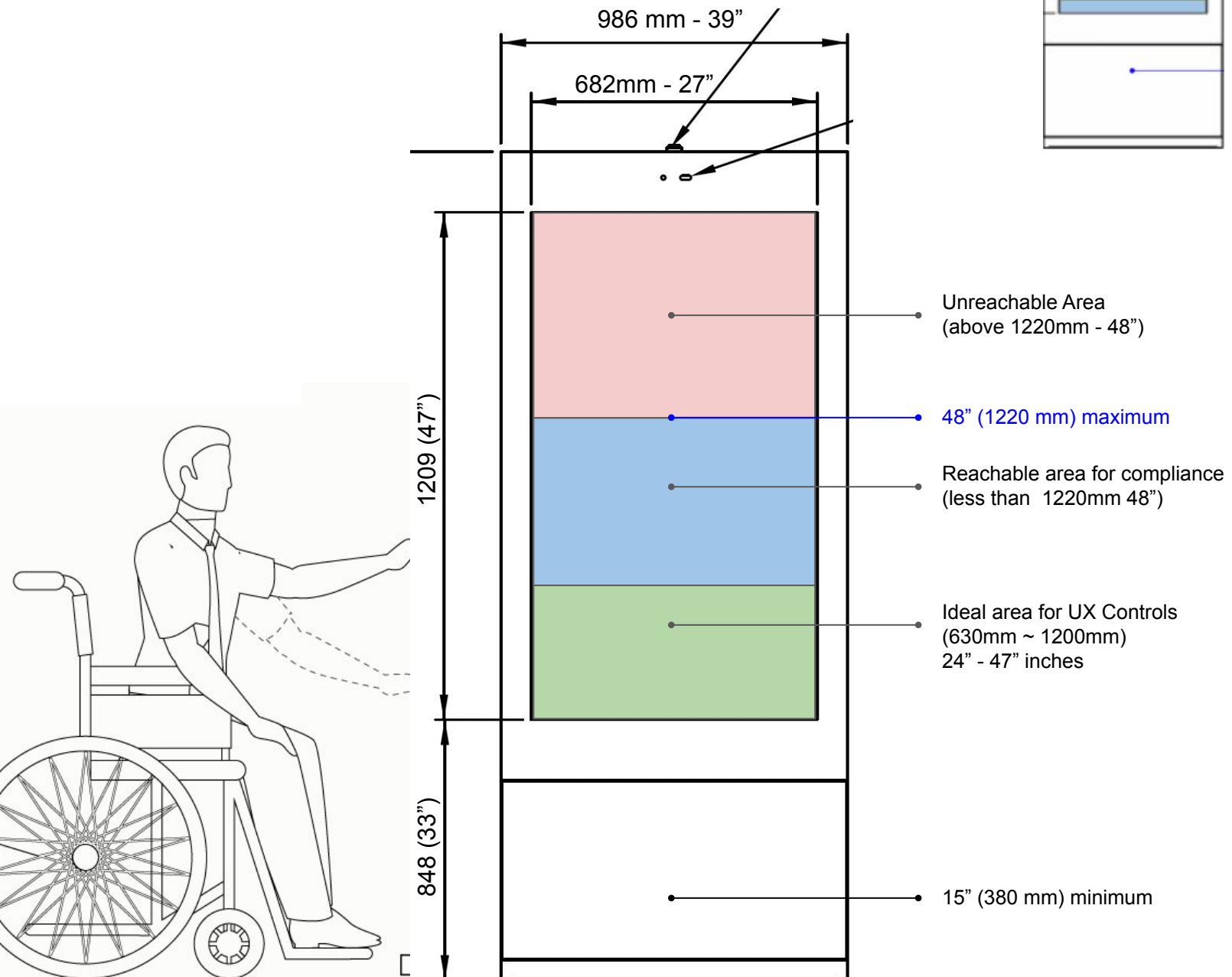
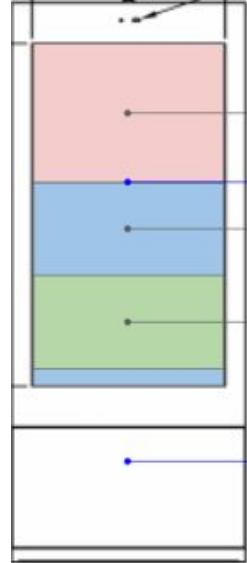
We use a hybrid approach that takes advantage of lower screen positioning on the hardware and alternative UX controls on the software to achieve ADA compliance. Some advantages to using a hybrid approach vs. hardware or software only include:

- Less part maintenance that usually comes from physical ADA-compliant user controls
- Lower cost hardware
- Maintaining elegance of simplicity in physical hardware design
- Ability to modify and improve the Accessible UX via software patches
- Freedom to customize software controls for specific applications vs. restricting applications by having them conform to physical hardware



Hardware Considerations for ADA Compliance

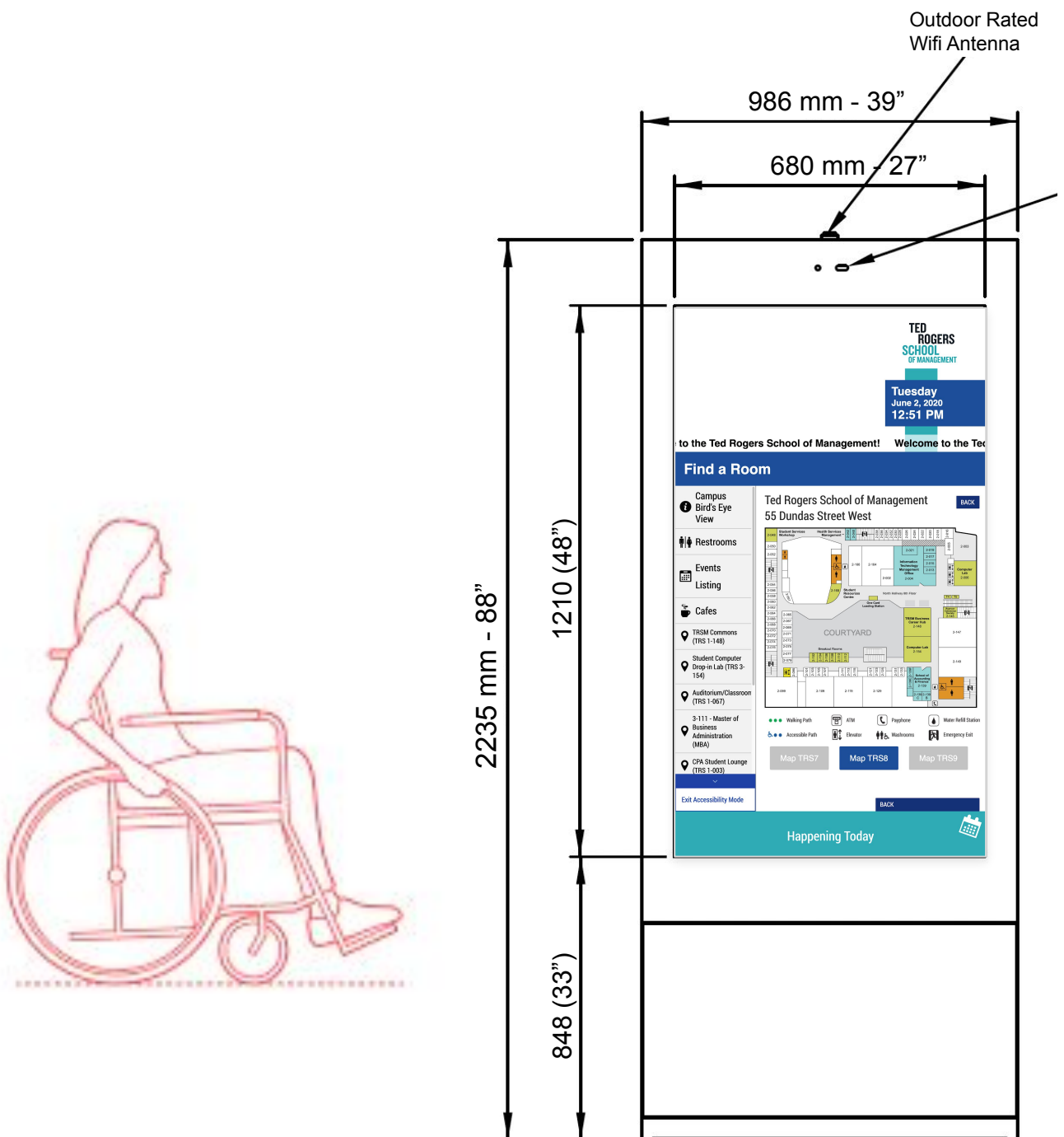
The Accessibility Requirements for ICT Products and Services from the European Telecommunications Standards Institute clearly show 15" (380 mm) minimum and 48" (1220 mm) maximum reach for Unobstructed Forward Reach—distances which align exactly with our display specification. The V8 measurements in the diagram below show exactly how the display fits into ADA requirements for reachability of kiosk controls.

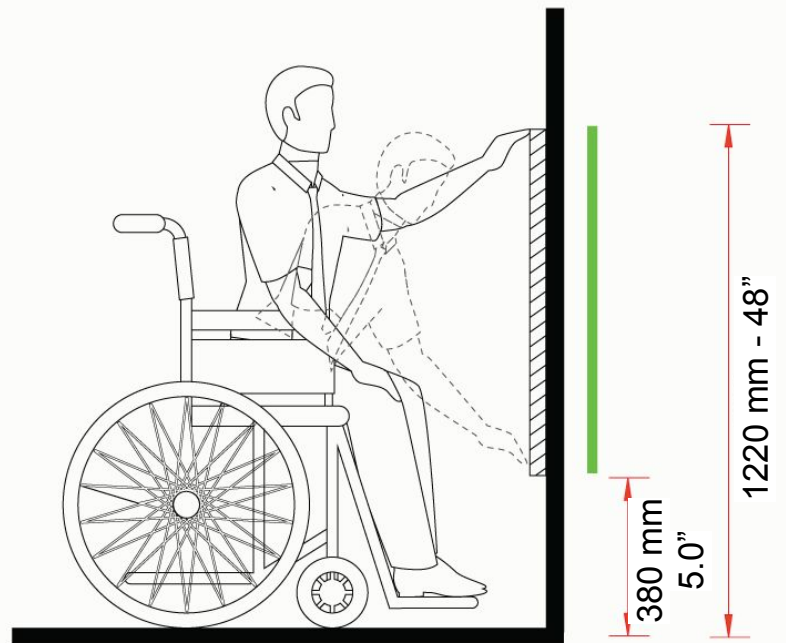
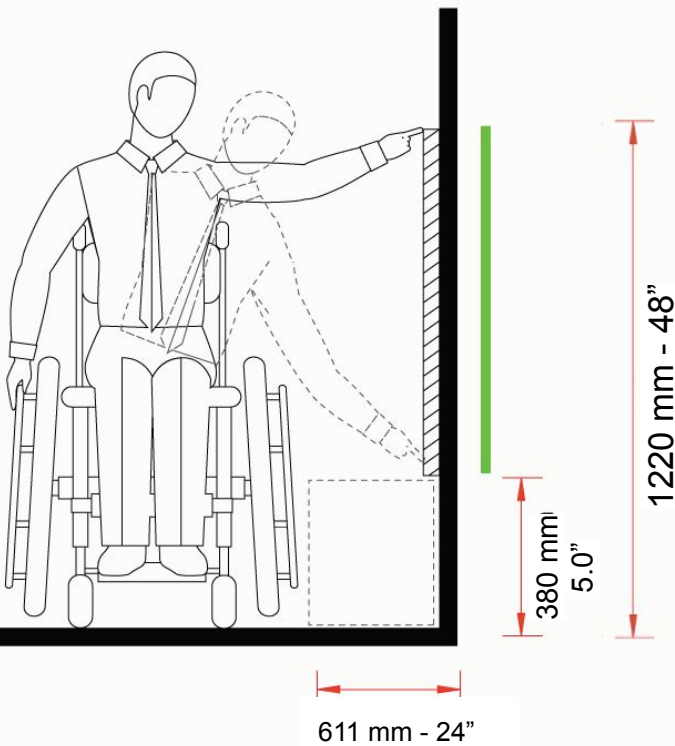
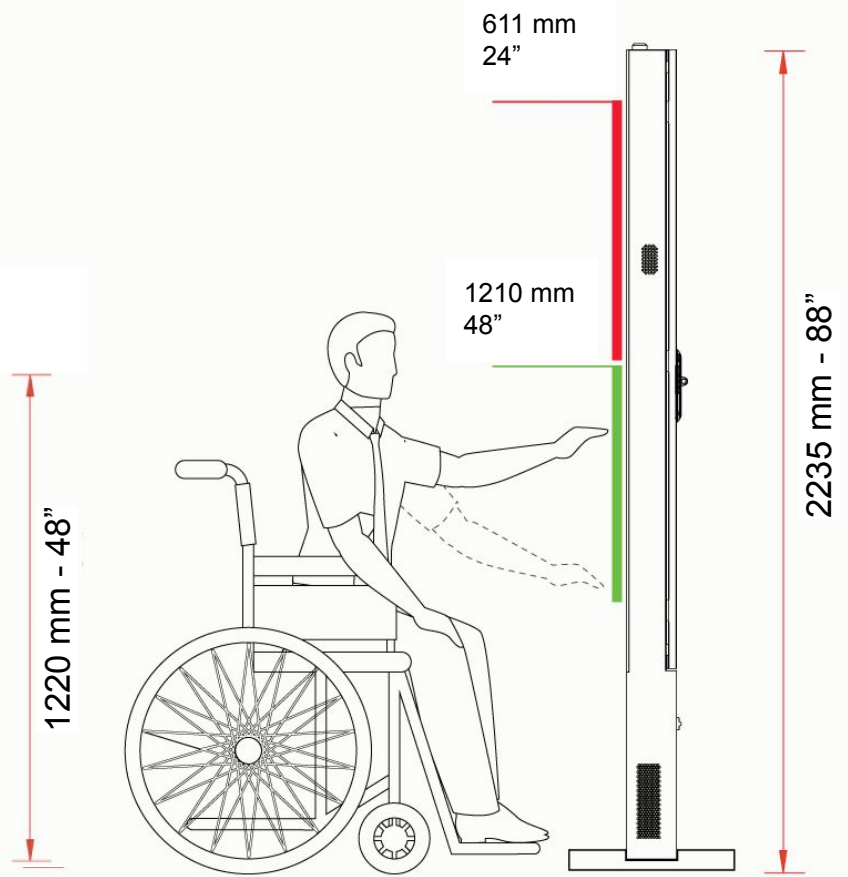
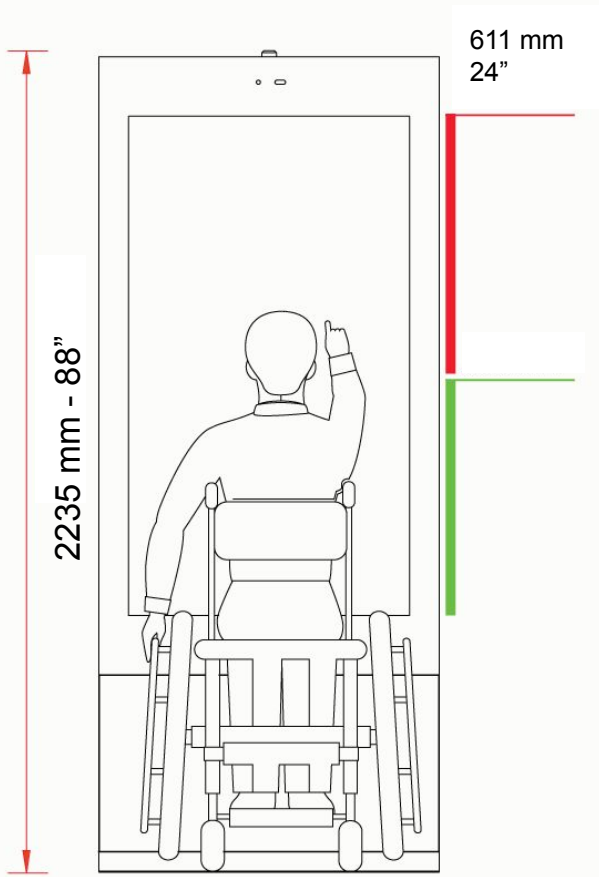


UX Design choices for ADA Compliance

Positioning

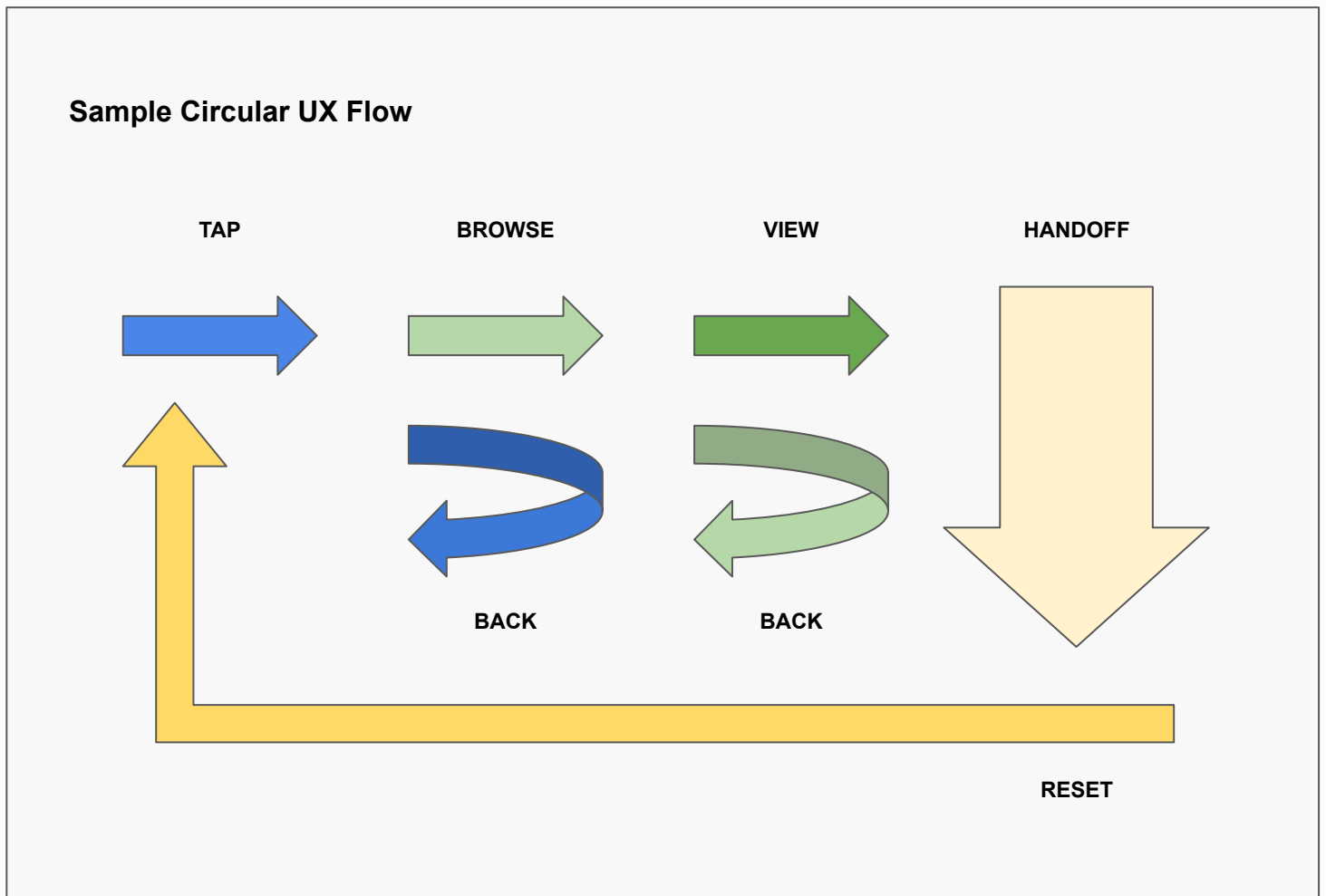
By providing all functionalities of the active application between 630-1200 mm towards the bottom of the display — either as the primary UX or via a secondary accessible UX — we can ensure compliance with ADA and European Telecommunications Standards.



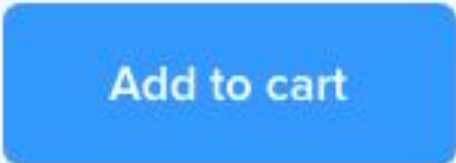
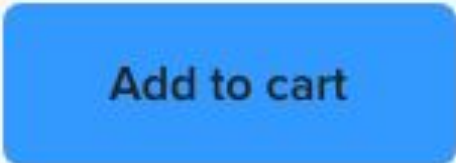


UX Design choices for ADA Compliance

User Loop All functionalities of the application should be expressed in a “user loop” i.e. a self-referential journey wherein a user is always able to loop back around to a previous function. This is preferred over a more common “branching” user interfaces because it reduces complexity and is much more intuitive to grasp. Ideally the faster a user can learn the UX the more pleasant the overall experience.



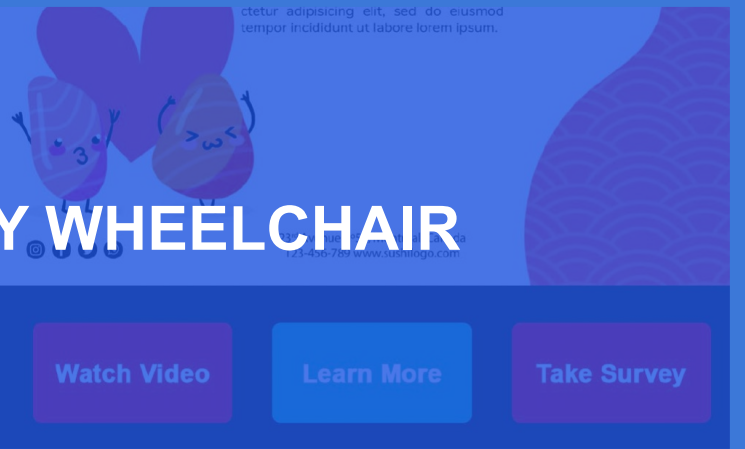


UX Design choices for ADA Compliance

EASIER TO READ	HARDER TO READ
	
FAILS	PASSES
contrast ratio: 2.94	contrast ratio: 5.41
required ratio: 4.5	required ratio: 4.5

High Contrast Software buttons and controls should be presented in stark contrast to background graphics. Also high-contrast colors are preferred to help vision-impaired users distinguish between active screen areas and passive ones.

UX Design choices for ADA Compliance

<p>Header Area 1080 x 150 Commonly used for a logo, weather and time.</p>	<p>21°C Toronto</p> <p>LOGO</p> <p>4:35 PM</p>
<p>Widescreen Banners and Videos 1080 x 608 16:9 ratio area commonly used for widescreen video clips.</p>	
<p>Large Poster Area 1080 x 810 Used for large static images and posters.</p>	
<p>Buttons 1080 x 250 Buttons to interactive content.</p>	

Templates

Use prebuilt ADA compliant digital signage templates to ensure that you are building experiences within the margins recommended in this whitepaper. These pre-built templates are provided to all E Suite users.