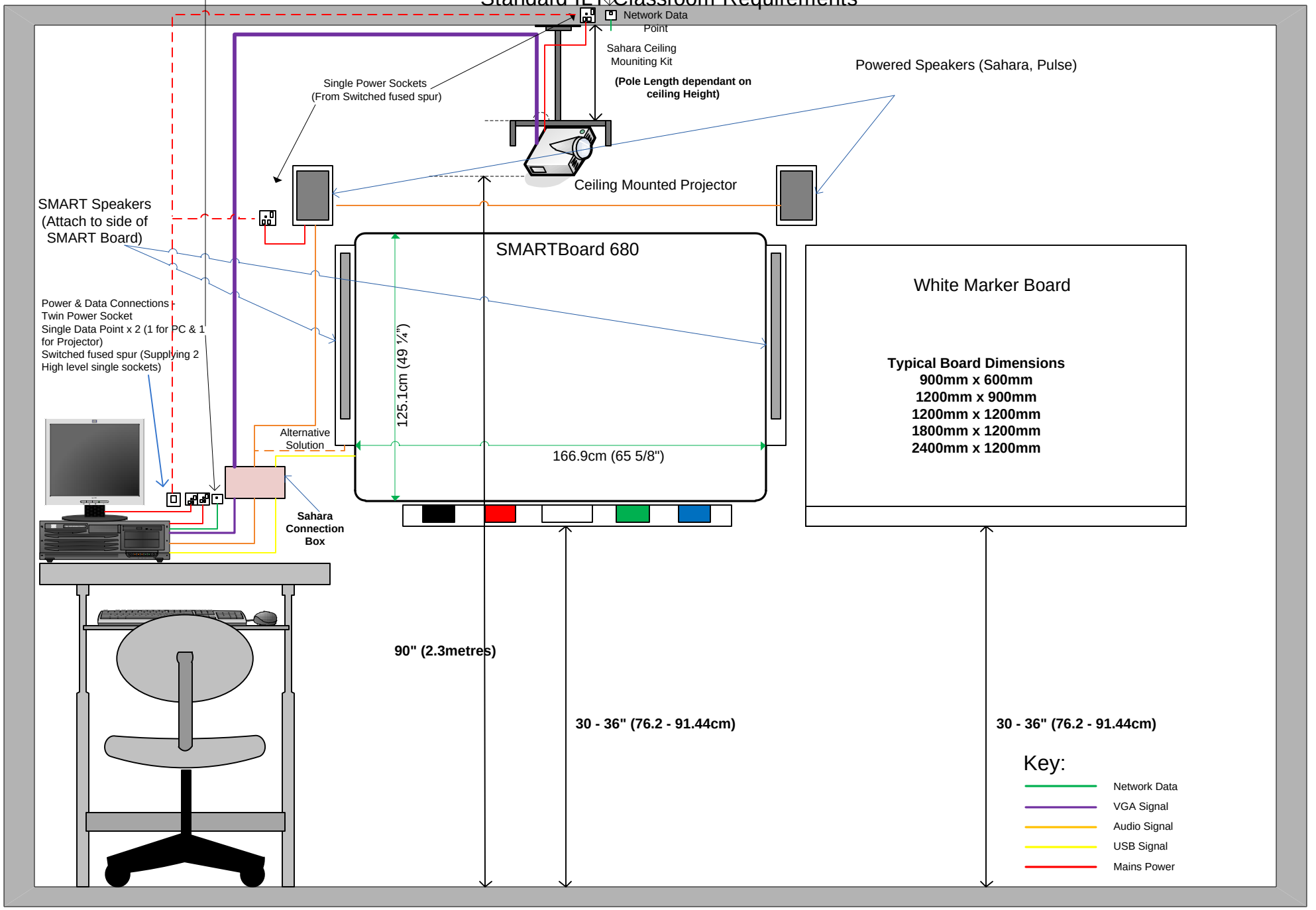
Standard ILT Classroom Requirements



Standard ILT Classroom Requirements

Full ILT Classroom installation requirements:
SMART Board 680
Projector – EB_X10/EB 905/475EBWi
Speakers (Powered or SMART) – Part No: 1050001
Sahara Ceiling Mounting Kit (1m Pole) – Sahara Part No: 1150014
Note: Additional 2m Pole + Connector Kit - required for high ceilings.
Sahara Cable Kit: (5, 10 or 15m Cable – As required, dependant on cable length) - – Sahara Part No: 1770001
Note: Sahara Kit – (Includes Sahara Connection box, VGA Cable & Speaker cable (Speaker to Connection Box))

1 x Standard PC (with SMART Notebook software installed)
1 x Workstation Trolley (for PC)
1 x Networked LaserJet Printer (Colour or B&W – As required)
1 x Table or Trolley (for Printer)

Data & Power requirements:
3 x Network Data points (1 x PC, 1 x Projector & 1 x Printer)
Twin Power Socket (PC)
Single/Twin Power Socket (Printer)
1 x Switched Fused spur supplying - 2 x High level single Power socket's:
(1 x Projector Supply – Ceiling mounted - adjacent to Projector fixing point)
(1 x Speaker Power – Adjacent to L/Hand Powered Speaker) –
(Note: Not required for SMART Speakers – Power socket at lower level)

Additional items Required: (PC – Connection Box)
1 x 3.5mm Jack to twin RCA connection lead (2metres)
1 x VGA Cable (2metres)
2 x Network Patch Cables (Length as required)

Note: A copy of the IT Department Standard Hardware list can be found on the Staff Intranet in the Central Services/Information Technology folder:

http://staff2/mod/resource/view.php?id=1935

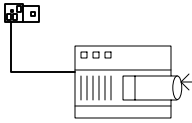
Twin Switched Power Socket + Network Data Point (PC)

Sahara Connection Box

Single switched Power socket (From Switched Fused spur)

Single switched Power socket (From Switched Fused spur)

Single switched Power socket (From Switched Fused spur) + Single Data Point



166.9cm (65 5/8")

Distance Varies According to Required Image Size (See current specs below)

SMART Board

Current Equipment Specifications:

Spec for Epson EB-X10 Projector:

IMAGE SIZE: 33 inch to 300 inch
60-inch screen: 1.80 - 2.17m (projection distance)

Spec for Epson EB-905

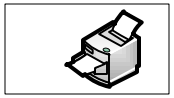
SCREEN SIZE: 30-inch to 300-inch
PROJECTION DISTANCE 60-inch screen: 1.69 – 2.75m

Spec for SMART Board 680:

Size 65 1/4" W × 49 1/2" H × 5 1/8" D
(165.7 cm × 125.7 cm × 13 cm)
Active screen area 61 5/8" W × 46 1/8" H
Mmaximum interactive, (156.5 cm × 117.2 cm)
projected image) 77" diagonal (195.6 cm)

(Size dependant on Space available)
Typical Board Dimensions
900mm x 600mm
1200mm x 900mm
1200mm x 1200mm
1800mm x 1200mm
2400mm x 1200mm

White Board



Standard ILT Classroom Requirements

Full ILT Classroom installation requirements:

Data & Power requirements:
Projector Epson - 475EBWi Projector
Epson Ceiling Mount - Part code: V12H003B23
or
Speakers (Powered) – Part No: 1050001
Sahara Cable Kit: (5, 10 or 15m Cable – As required, dependant on cable length) - – Sahara Part No: 1770001
Note: Sahara Kit – (Includes Sahara Connection box, VGA Cable & Speaker cable (Speaker to Connection Box))

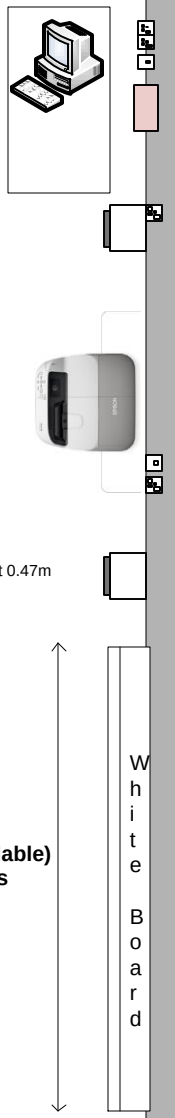
1 x Standard PC (with SMART Notebook software installed)
1 x Workstation Trolley (for PC)
1 x Networked LaserJet Printer (Colour or B&W – As required)
1 x Table or Trolley (for Printer)

3 x Network Data points (1 x PC, 1 x Projector & 1 x Printer)
Twin Power Socket (PC)
Single/Twin Power Socket (Printer)
1 x Switched Fused spur supplying - 2 x High level single Power socket's:
(1 x Projector Supply – Ceiling mounted - adjacent to Projector fixing point)
(1 x Speaker Power – Adjacent to L/Hand Powered Speaker) – (Note: Not required for SMART Speakers – Power socket at lower level)

Additional items Required: (PC – Connection Box)
1 x 3.5mm Jack to twin RCA connection lead (2metres)
1 x VGA Cable (2metres)
2 x Network Patch Cables (Length as required)

Note:
Ensure that the wall is sufficient to support the weight of the projector and associated mounting bracket

Typical Classroom Layout View

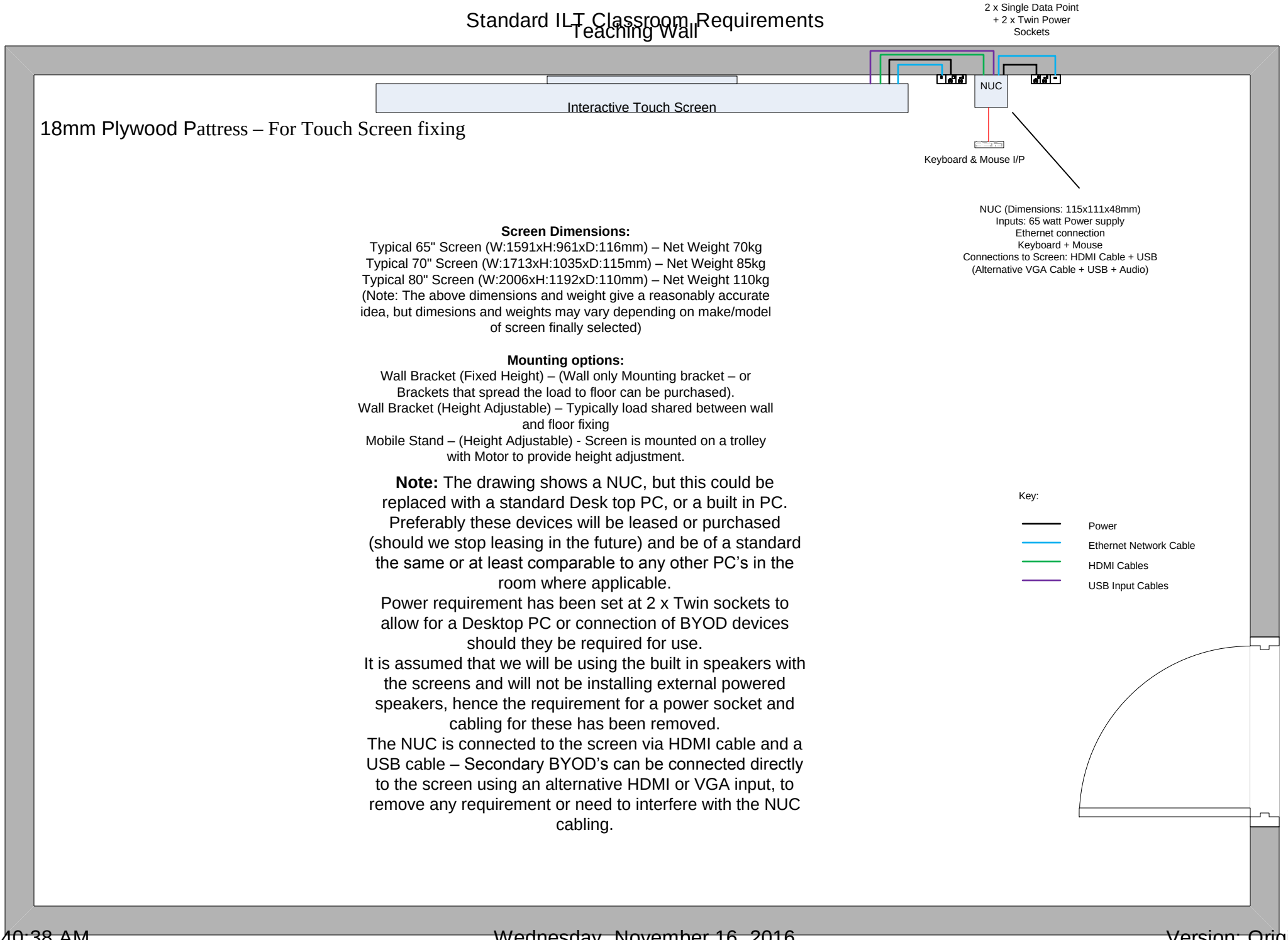


Projector Epson - 475EBWi Projector
SCREEN SIZE 60-inch to 100-inch
PROJECTION DISTANCE 74-inch screen: 0.43m
80-inch/203cm image from a distance of just 0.47m
KEYSTONE CORRECTION Manual vertical & horizontal ± 5°
WEIGHT 5,4kg
DIMENSIONS (W x D x H) 367 x 375 x 181mm

(Size dependant on Space available)
Typical Board Dimensions
900mm x 600mm
1200mm x 900mm
1200mm x 1200mm
1800mm x 1200mm
2400mm x 1200mm

Standard ILT Classroom Requirements

Teaching Wall



Screen Dimensions:
Typical 65" Screen (W:1591xH:961xD:116mm) – Net Weight 70kg
Typical 70" Screen (W:1713xH:1035xD:115mm) – Net Weight 85kg
Typical 80" Screen (W:2006xH:1192xD:110mm) – Net Weight 110kg
(Note: The above dimensions and weight give a reasonably accurate idea, but dimesions and weights may vary depending on make/model of screen finally selected)

Mounting options:
Wall Bracket (Fixed Height) – (Wall only Mounting bracket – or Brackets that spread the load to floor can be purchased).
Wall Bracket (Height Adjustable) – Typically load shared between wall and floor fixing
Mobile Stand – (Height Adjustable) - Screen is mounted on a trolley with Motor to provide height adjustment.

Note: The drawing shows a NUC, but this could be replaced with a standard Desk top PC, or a built in PC. Preferably these devices will be leased or purchased (should we stop leasing in the future) and be of a standard the same or at least comparable to any other PC's in the room where applicable.
Power requirement has been set at 2 x Twin sockets to allow for a Desktop PC or connection of BYOD devices should they be required for use.
It is assumed that we will be using the built in speakers with the screens and will not be installing external powered speakers, hence the requirement for a power socket and cabling for these has been removed.
The NUC is connected to the screen via HDMI cable and a USB cable – Secondary BYOD's can be connected directly to the screen using an alternative HDMI or VGA input, to remove any requirement or need to interfere with the NUC cabling.

Standard ILT Classroom Requirements

Mounting options:

Wall Bracket (Fixed Height) – (Wall only Mounting bracket – or Brackets that spread the load to floor can be purchased).
Wall Bracket (Height Adjustable) – Typically load shared between wall and floor fixing
Mobile Stand – (Height Adjustable) - Screen is mounted on a trolley with Motor to provide height adjustment.

Screen Dimensions: