## From BC MoE Area Standards (05/2012)

2.2.3 Area Measurement

Room or Module Areas
Room or module area will be measured net within the inside surfaces of main enclosing walls and partitions.
Undefined Boundaries
Sometimes the boundary between circulation and other spaces such as libraries is not clearly defined. For calculation of allowable areas when this is so,
passageways shall be assumed to be not less than 2 m wide where circulation is likely.

Mezzanines
With the exception of Industrial Education mezzanine storage, mezzanines shal be measured and considered as normal floor space
2.6.4 Industrial Education Covered Work Area

In addition to the allowable areas for Industrial Education a roofed, fenced, and paved work area not exceeding $65 \mathrm{~m}^{2}$ may be added to each construction, mechanics and middle school general shop. The area of the sawdust extraction equipment room may included either in the covered work area or in the construction shop allowable area, at School Board discretion.
Covered work areas shall not be counted within the gross building area.

## Gross Area

he gross area of a building floor is defined as the floor area within the inside of the exterior walls, plus a standard allowance calculated by multiplying the building perimeter (measured at the interior face) times 150 mm .

The following area calculations shall be included in the definition of facility gross floor area:

- stair openings, measured at the first floor, including stairs to rooftop penthouses
- elevator and duct shafts measured at each floo
- mezzanines including access stairs
- mechanical and electrical spaces, including all penthouse, basemen
and mezzanine locations (service spaces to be identified separately)
- galleries and suspended walkways, inct

Excluded areas from the calculations are as follows:

- industrial education storage mezzanines
- crawl spaces or service tunnels
- industrial education covered work areas


## Halim Note

floor areas are calculated based on what formulae for occupancy ? shops are generic designs (not mandated) and assume a maximum of 24 students in a shop
24 students is the maximum; this number should be lower if said students require special accomodations and/or needs.
E.g. a student may require an special education assistanc
(SEA), therefore the maximum class size should be 23
students and one SEA.

| Industrial Education | $120 \mathrm{~m}^{2}$$140 \mathrm{~m}^{2}$ | Sheet List |  |
| :---: | :---: | :---: | :---: |
|  |  | Sheet Number | Sheet Name |
| Drafting <br> Technology (existing Electricity/Electronics) |  | A0 | Cover Page |
| Metalwork (use in determining existing cap.) | $200 \mathrm{~m}^{2}$ | A101 | Floor Plan |
| Mechanics Construction (Wood) | $230 \mathrm{~m}^{2}$ $275 \mathrm{~m}^{2}$ | A102 | Annotations |
| Construction (Wood) |  |  | and Area |
|  |  | A103 | Safety Zones |
|  |  | A103.1 | Safety Zone Details |
|  |  | A103.2 | Safety Zone Details |
|  |  | A104 | Section Views |
|  |  | A105 | 3D Views |

BCTEA
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Metal Shop Safety Zones

| No. | Description | Date |
| :--- | :--- | :--- |
| 1 | Revision 1 | 2017 |
| 2 | For Review | 20180929 |
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| Cover Page |  |  |
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| Project number | Project Number |  |
| Date | 2017 | AO |
| Drawn by | Halim |  |
| Checked by | BCTEA | Scale |


(1) Floor Plan - Overall Dimensions

1/8" = 1'-0"

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## Floor Plan



(1) Floor Plan - Safety Zones $3 / 16 "=1 '-0 "$

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| Metal Shop Safety Zones |  |


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## Safety Zones


(1) $\frac{S Z-B a n d s a w}{1 / 4 "=1}$ $1 / 4 "=1$ '-0"

(2) SZ - Belt Sander 2) $1 / 4^{\prime \prime}=1^{\prime}-0 "$

(3) $\frac{S Z \text { - Disc Sander }}{1 / 4^{\prime \prime}=1^{\prime}-0^{\prime \prime}}$

(4) $\frac{S Z \text { - Drill Press }}{1 / 4^{\prime \prime}=1^{\prime}-0^{\prime \prime}}$

(5) SZ - Pedestal Grinder

(6) $\frac{\text { SZ - Mill }}{1 / 4 "=1 '-0^{\prime \prime}}$
(7) SZ - Shear

(8) $\frac{S Z \text { - Lathe }}{1 / 4^{\prime \prime}=1^{\prime}-0}$
(8) $\frac{S Z \text { - Lathe }}{1 / 4 "=1 '-0^{\prime \prime}}$

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(1) $\frac{\text { SZ - CNC Plasma }}{1 / 8^{\prime \prime}}=1^{\prime}-0^{\prime \prime}$
is
is
$1 / 8 "=1$ '-0"

(2) $\frac{S Z-\text { Welding }}{1 / 4 "=1^{\prime}-0^{\prime \prime}}$
$1 / 4^{\prime \prime}=1^{\prime}-0 "$

(3) $\frac{\mathrm{SZ}}{1 / 4^{\prime \prime}=1^{\prime}} \mathrm{Wor}^{\prime \prime}$ Benches
$1 / 4^{\prime \prime}=1^{\prime}-0 "$

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| Section Views |  |  |
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| Proiet rumber | Project Numbe <br> 2017 | A104 |
| ${ }^{\text {Prawnby }}$ | $\underset{\substack{\text { Halim } \\ \text { Cheocker }}}{ }$ | Scale $188^{\prime \prime} 10.10^{\prime \prime}$ |



