

# Building Survey Performa for Fire Safety Assessment

1.Date of Survey	14 - 10 - 2017				
2.Name of Surveyors with Designations	RK				
3.Name of buildings	DK				
4.Classification Of Buildings	A4 : Residential Appartments ▼				
<b>Module Name</b>	<b>Weight</b>	<b>Module Name</b>	<b>Weight</b>		
A <sub>1</sub>	0.35	C <sub>3</sub>	0.22		
A <sub>2</sub>	0.33	C <sub>4</sub>	0.24		
A <sub>3</sub>	0.32	C	0.19		
A	0.21	D <sub>1</sub>	0.20		
B <sub>1</sub>	0.18	D <sub>2</sub>	0.19		
B <sub>2</sub>	0.16	D <sub>3</sub>	0.20		
B <sub>3</sub>	0.18	D <sub>4</sub>	0.19		
B <sub>4</sub>	0.16	D <sub>5</sub>	0.22		
B <sub>5</sub>	0.16	D	0.20		
B <sub>6</sub>	0.16	E <sub>1</sub>	0.32		
B	0.21	E <sub>2</sub>	0.34		
C <sub>1</sub>	0.26	E <sub>3</sub>	0.31		
C <sub>2</sub>	0.25	E	0.19		
<b>Please click on your observation about the availability of mesaurable items in the following questions in column as Yes/No.</b>					
<b>Fire Safety Strategy A : Mean of Access</b>					
<b>The following measurable items (A<sub>11</sub> to A<sub>14</sub>) of criteria "A<sub>1</sub>: Open space around building" are available in the building.</b>			<b>Yes</b>	<b>No</b>	<b>Weight</b>
Sufficient parking free open space with minimum required hard drive width available:					
A <sub>11</sub>	In front of building (including street width)		<input checked="" type="radio"/>	<input type="radio"/>	0.27
	On left side of building		<input checked="" type="radio"/>	<input type="radio"/>	0.25

A <sub>12</sub>				
A <sub>13</sub>	On right side of building	<input checked="" type="radio"/>	<input type="radio"/>	0.24
A <sub>14</sub>	On rear side of building	<input checked="" type="radio"/>	<input type="radio"/>	0.24
<b>The following measurable items (A<sub>21</sub> to A<sub>25</sub>) of criteria "A<sub>2</sub>: Open space around building" are available in the building.</b>		Yes	No	Weight
A <sub>21</sub>	Height of building is restricted for main road width requirement	<input checked="" type="radio"/>	<input type="radio"/>	0.20
A <sub>22</sub>	Minimum width of main road in front of building is more than requirement	<input checked="" type="radio"/>	<input type="radio"/>	0.19
A <sub>23</sub>	Main road in front of building meets the other road of equal or more width, without a dead end	<input checked="" type="radio"/>	<input type="radio"/>	0.20
A <sub>24</sub>	Sufficient clear distance(minimum 6 meter) of road from main road to building available	<input checked="" type="radio"/>	<input type="radio"/>	0.22
A <sub>25</sub>	Minimum clear height and width of main gate of the buiding are 4.5 and 6/0 meters respectively	<input type="radio"/>	<input checked="" type="radio"/>	0.19
<b>The following measurable items (A<sub>31</sub> to A<sub>34</sub>) of criteria "A<sub>3</sub>: Access inside building i.e. Fire Shaft/Lift" are available in the building.</b>		Yes	No	Weight
A <sub>31</sub>	Fire Fighting shaft with fire protected lobby, fire lift anf staircase provided	<input checked="" type="radio"/>	<input type="radio"/>	0.25
A <sub>32</sub>	Firefighting shaft is either a pressurized 120 minutes fire rated enclosure with 120 minutes fire rated door or open naturally ventilated	<input checked="" type="radio"/>	<input type="radio"/>	0.25
A <sub>33</sub>	Firefighting shaft is equipped with floor plan, firemen talk back, wet riser and landing valve in its lobby	<input checked="" type="radio"/>	<input type="radio"/>	0.27
A <sub>34</sub>	The words 'Fire Lift' is clearly displayed in fluoroscent paint on each lift landing door.	<input checked="" type="radio"/>	<input type="radio"/>	0.23
<b>Fire Safety Strategy B : Means of Egress</b>				
<b>The following measurable items (B<sub>11</sub> to B<sub>14</sub>) of criteria "B<sub>1</sub>: Vertical Movement Routes" are available in the building.</b>		Yes	No	Weight
B <sub>11</sub>	The minimum two number of exit routes (means of escape as staircaswe, ramps, horizontal exits, fire shaft) from every point of a floor or a compartment to an exit route/safe place available	<input checked="" type="radio"/>	<input type="radio"/>	0.27
B <sub>12</sub>	The minimum two number of exit routes (means of escape) from every point of basement compartment to an exit route/safe place available	<input checked="" type="radio"/>	<input type="radio"/>	0.26
B <sub>13</sub>	Sufficient exit capacity for occupancy load on floors provided	<input checked="" type="radio"/>	<input type="radio"/>	0.24
B <sub>14</sub>	Sufficient exit capacity for occupancy load from basement provided	<input checked="" type="radio"/>	<input type="radio"/>	0.23
<b>The following measurable items (B<sub>21</sub> to B<sub>26</sub>) of criteria "B<sub>2</sub>: Exit features" are available in the building.</b>		Yes	No	Weight
B <sub>21</sub>	Main inteval staircase is located along external wall of building and away from lift well	<input checked="" type="radio"/>	<input type="radio"/>	0.17
B <sub>22</sub>	All staircases are continuous from terrace to exit discharge level or ground floor	<input checked="" type="radio"/>	<input type="radio"/>	0.17
B <sub>23</sub>	Seperate staircase for basement away from main staircase protected with fire rated door	<input checked="" type="radio"/>	<input type="radio"/>	0.17
B <sub>24</sub>	At least 50% of exit routes are directly discharging to the exterior of building or to exit passageway	<input checked="" type="radio"/>	<input type="radio"/>	0.17
B <sub>25</sub>	The minimum width for exit doors provided	<input checked="" type="radio"/>	<input type="radio"/>	0.15

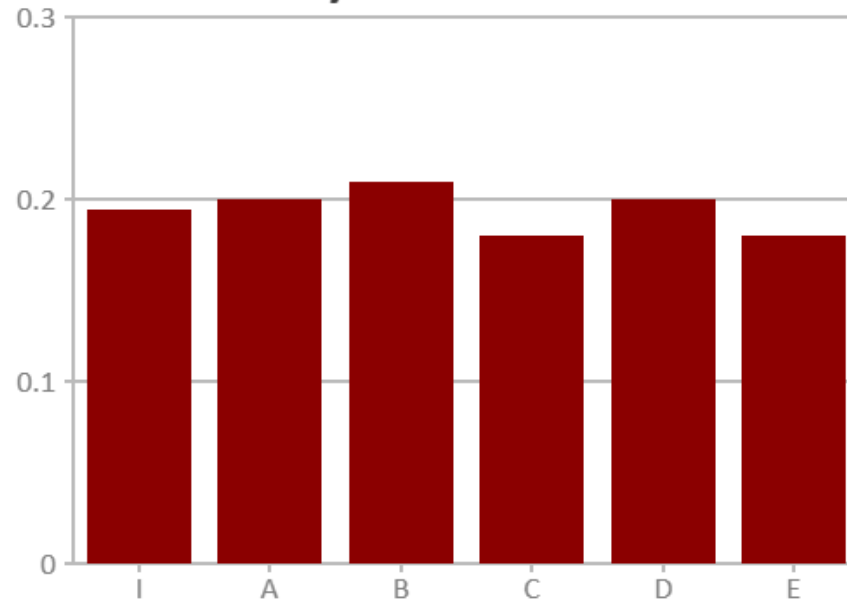
B <sub>26</sub>	Sufficient width and minimum 2.4m height of exit corridors in the directions of travel to exit routes provided	<input checked="" type="radio"/>	<input type="radio"/>	0.17
<b>The following measurable items (B<sub>31</sub> to B<sub>36</sub>) of criteria "B<sub>3</sub>: Travel Distances" are available in the building.</b>		Yes	No	Weight
B <sub>31</sub>	Maximum Travel Distance (MTD) is restricted on floors as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.25
B <sub>32</sub>	Maximum Travel Distance (MTD) restricted in basement as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.27
B <sub>33</sub>	The maximum dead-end distance on a floor is less than 15m	<input checked="" type="radio"/>	<input type="radio"/>	0.23
B <sub>34</sub>	The exit routes are located far way from each other	<input checked="" type="radio"/>	<input type="radio"/>	0.25
<b>The following measurable items (B<sub>41</sub> to B<sub>43</sub>) of criteria "B<sub>4</sub>: Horizontal exit and refuge area" are available in the building.</b>		Yes	No	Weight
B <sub>41</sub>	Horizontal exits provided as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.32
B <sub>42</sub>	Sufficient refuge area is provided as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.34
B <sub>43</sub>	Refuge area is open ventilated, sprinkled and provided with fireman talkback or public-address system	<input checked="" type="radio"/>	<input type="radio"/>	0.34
<b>The following measurable items (B<sub>51</sub> to B<sub>54</sub>) of criteria "B<sub>5</sub>: Emergency Power and escape lighting" are available in the building.</b>		Yes	No	Weight
B <sub>51</sub>	Emergency power other than main supply, supported by standby diesel generator is available	<input checked="" type="radio"/>	<input type="radio"/>	0.28
B <sub>52</sub>	Emergency power is supporting all critical life safety systems like; emergency lighting, fire man's lift, fire pump, pressurization, smoke ventilation, fire alarm etc	<input checked="" type="radio"/>	<input type="radio"/>	0.26
B <sub>53</sub>	Emergency light provide adequate illumination along exit routes and corridors	<input checked="" type="radio"/>	<input type="radio"/>	0.22
B <sub>54</sub>	Escape light luminaries are located at all intersection of corridors, change of direction, exit doors, near each fire alarm call points and firefighting installations	<input checked="" type="radio"/>	<input type="radio"/>	0.24
<b>The following measurable items (B<sub>61</sub> to B<sub>64</sub>) of criteria "B<sub>6</sub>: Exit Signs" are available in the building.</b>		Yes	No	Weight
B <sub>61</sub>	Exit signs are well illuminated and wired on an independent power supply other than main circuit	<input checked="" type="radio"/>	<input type="radio"/>	0.26
B <sub>62</sub>	Exit signs are damage proof and flushed inside the wall	<input checked="" type="radio"/>	<input type="radio"/>	0.24
B <sub>63</sub>	Exit signs are clearly visible with indicating arrows to escape routes (Exits)	<input checked="" type="radio"/>	<input type="radio"/>	0.26
B <sub>64</sub>	Individual floors are prominently indicated on the wall facing the staircase	<input checked="" type="radio"/>	<input type="radio"/>	0.24
<b>Fire Safety Strategy C : Passive Fire Safety</b>				
<b>The following measurable items (C<sub>11</sub> to C<sub>14</sub>) of criteria "C<sub>1</sub>: Type of construction" are available in the building.</b>		Yes	No	Weight
C <sub>11</sub>	All structural load bearing members (beam, column, floor, roof) are of type 1 or 2 constructions	<input checked="" type="radio"/>	<input type="radio"/>	0.27
C <sub>12</sub>	All interior surface material of the building is of class 1 or 2 fire spread rating	<input checked="" type="radio"/>	<input type="radio"/>	0.25
C <sub>13</sub>	All exterior surface material of the building is of class 1 or 2 fire spread rating	<input checked="" type="radio"/>	<input type="radio"/>	0.25
C <sub>14</sub>	Exterior/Interior surface material of building do not generate toxic fumes	<input checked="" type="radio"/>	<input type="radio"/>	0.23

The following measurable items (C <sub>21</sub> to C <sub>24</sub> ) of criteria "C <sub>2</sub> : Compartmentalization" are available in the building.		Yes	No	Weight
C <sub>21</sub>	On floor compartment size is restricted as per requirements <sup>2</sup>	<input checked="" type="radio"/>	<input type="radio"/>	0.25
C <sub>22</sub>	In basements compartment size is restricted as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.26
C <sub>23</sub>	Compartment barrier walls are 120 minutes fire rated	<input checked="" type="radio"/>	<input type="radio"/>	0.25
C <sub>24</sub>	Openings size in compartment barrier are restricted as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.24
The following measurable items (C <sub>31</sub> to C <sub>34</sub> ) of criteria "C <sub>3</sub> : Fire and smoke protection of openings" are available in the building.		Yes	No	Weight
C <sub>31</sub>	All cable ducts and sealing fire stops are of 120 minutes fire rated material	<input checked="" type="radio"/>	<input type="radio"/>	0.34
C <sub>32</sub>	All vertical and staircase openings between floors are enclosed or protected by 120 minutes fire rated enclosure and naturally ventilated	<input checked="" type="radio"/>	<input type="radio"/>	0.33
C <sub>33</sub>	All wall openings and service ducts closed with 120 minutes fire rated doors	<input checked="" type="radio"/>	<input type="radio"/>	0.33
The following measurable items (C <sub>41</sub> to C <sub>43</sub> ) of criteria "C <sub>4</sub> : Fire protection of service installions" are available in the building.		Yes	No	Weight
C <sub>41</sub>	Seperate ducts for electrical cables and other services provided	<input checked="" type="radio"/>	<input type="radio"/>	0.31
C <sub>42</sub>	Gas supply pipe lines are laid in seperate duct located at external wall of the building	<input checked="" type="radio"/>	<input type="radio"/>	0.33
C <sub>43</sub>	All rooms containing high pressure boilers, refrigerating machinery, transformers located away from exits, and protected with fire rated walls with adequate vents	<input checked="" type="radio"/>	<input type="radio"/>	0.36
Fire Safety Strategy D : Active Fire Safety				
The following measurable items (D <sub>11</sub> to D <sub>12</sub> ) of criteria "D <sub>1</sub> : Fire and smoke detection" are available in the building.		Yes	No	Weight
D <sub>11</sub>	A fire detection and alarm system installed in the building	<input checked="" type="radio"/>	<input type="radio"/>	0.45
D <sub>12</sub>	Fire detection and alarm system is automatic and connected to sprinklers	<input checked="" type="radio"/>	<input type="radio"/>	0.55
The following measurable items (D <sub>21</sub> to D <sub>25</sub> ) of criteria "D <sub>2</sub> : Smoke venting and control" are available in the building.		Yes	No	Weight
D <sub>21</sub>	All exit passages and corridor are either pressurized or have mechanical smoke exhaust system or naturally ventilated	<input checked="" type="radio"/>	<input type="radio"/>	0.19
D <sub>22</sub>	Sufficient power operated or natural smoke venting (more than 2.5% of floor area) provided in the basements	<input checked="" type="radio"/>	<input type="radio"/>	0.20
D <sub>23</sub>	Staircase enclosures are either pressurized or naturally ventilated	<input checked="" type="radio"/>	<input type="radio"/>	0.19
D <sub>24</sub>	In AC buildings, independent Air Handling Unit (AHU) for each floor with automatic fire dampers provided in ducts	<input checked="" type="radio"/>	<input type="radio"/>	0.21
D <sub>25</sub>	In AC buildings, the corridors and exit routes have no air-conditioning(AC) vents, return air passage or any duct openings	<input checked="" type="radio"/>	<input type="radio"/>	0.21
The following measurable items (D <sub>31</sub> to D <sub>34</sub> ) of criteria "D <sub>3</sub> : Firefighting installations (FI)" are available in the building.		Yes	No	Weight
D <sub>31</sub>	Sufficient portable fire extinguishersper floor or compartment provided	<input checked="" type="radio"/>	<input type="radio"/>	0.24
D <sub>32</sub>	Hose reel of sufficient length to cover all places on floors provided	<input checked="" type="radio"/>	<input type="radio"/>	0.24

D <sub>33</sub>	Wet Riser or Down Comer provided as per requirement	<input checked="" type="radio"/>	<input type="radio"/>	0.26
D <sub>34</sub>	Yard hydrant provided	<input checked="" type="radio"/>	<input type="radio"/>	0.26
<b>The following measurable items (D<sub>41</sub> to D<sub>43</sub>) of criteria "D<sub>4</sub>: Sprinklers" are available in the building.</b>		Yes	No	Weight
D <sub>41</sub>	Sprinklers provided on the floor	<input checked="" type="radio"/>	<input type="radio"/>	0.34
D <sub>42</sub>	Sprinklers provided in the exit ways and lobbies	<input checked="" type="radio"/>	<input type="radio"/>	0.31
D <sub>43</sub>	Sprinklers provided in the basement	<input checked="" type="radio"/>	<input type="radio"/>	0.35
<b>The following measurable items (D<sub>51</sub> to D<sub>53</sub>) of criteria "D<sub>5</sub>: Water Supply" are available in the building.</b>		Yes	No	Weight
D <sub>51</sub>	Underground water tank of sufficient capacity provided	<input checked="" type="radio"/>	<input type="radio"/>	0.35
D <sub>52</sub>	Terrace water tank of sufficient capacity is provided	<input checked="" type="radio"/>	<input type="radio"/>	0.34
D <sub>53</sub>	A pump house is 120 minutes fire rated enclosure with standby diesel generator provided	<input checked="" type="radio"/>	<input type="radio"/>	0.31
<b>Fire Safety Strategy E : Fire Safety Management (FSM)</b>				
<b>The following measurable items (E<sub>11</sub> to E<sub>14</sub>) of criteria "E<sub>1</sub>: Fire Control Room" are available in the building.</b>		Yes	No	Weight
E <sub>11</sub>	A fire control (FCR) in 120 minutes fire rated enclosure is located at entrance floor with direct access	<input checked="" type="radio"/>	<input type="radio"/>	0.27
E <sub>12</sub>	Detailed floor plan of building with details of all firefighting systems on floors is available in FCR	<input checked="" type="radio"/>	<input type="radio"/>	0.27
E <sub>13</sub>	Main fire alarm panel with public address system to all floors and message receiving facility available in FCR	<input checked="" type="radio"/>	<input type="radio"/>	0.23
E <sub>14</sub>	A full time qualified fire officer employed in building as per requirements	<input checked="" type="radio"/>	<input type="radio"/>	0.23
<b>The following measurable items (E<sub>21</sub> to E<sub>24</sub>) of criteria "E<sub>2</sub>: Fire Control Room" are available in the building.</b>		Yes	No	Weight
E <sub>21</sub>	All exits, corridors and staircases maintained in obstruction free, sound operable and easy to access conditions	<input checked="" type="radio"/>	<input type="radio"/>	0.26
E <sub>22</sub>	All fixed firefighting and smoke controlling installations maintained in sound operable conditions and checked regularly	<input checked="" type="radio"/>	<input type="radio"/>	0.26
E <sub>23</sub>	Regular trained housekeeping staff provided to maintain building garbage free	<input checked="" type="radio"/>	<input type="radio"/>	0.23
E <sub>24</sub>	Open naked fire, flames and storage of inflammable material is prohibited in the premises	<input checked="" type="radio"/>	<input type="radio"/>	0.25
<b>The following measurable items (E<sub>31</sub> to E<sub>35</sub>) of criteria "E<sub>3</sub>: Fire drills, fire Orders and user guide manual" are available in the building.</b>		Yes	No	Weight
E <sub>31</sub>	Fire Safety Plan of entire building is ready and has been distributed and explained to the occupants	<input checked="" type="radio"/>	<input type="radio"/>	0.21
E <sub>32</sub>	Fire Drills are conducted regularly as per schedule and record of past drills available	<input checked="" type="radio"/>	<input type="radio"/>	0.21
E <sub>33</sub>	Fire Notices are displayed at vantage points and occupants made thoroughly conversant with regular training	<input checked="" type="radio"/>	<input type="radio"/>	0.21
E <sub>34</sub>	A Personal Fire Instruction card with details of floor plan, exit route and instructions to followed in case of fire given to all occupants	<input checked="" type="radio"/>	<input type="radio"/>	0.18
E <sub>35</sub>	Safe Practice Manual about storage of inflammable material and use of gas and electrical appliances given to occupants	<input checked="" type="radio"/>	<input type="radio"/>	0.19

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## Fire Safety Assessment Chart



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Index Values	Star Rating Scale	Fire Safety Level
< 0.25	*	Dark Red
0.25 - 0.48	**	Light Red
0.48 - 0.72	***	Yellow
0.72 - 0.87	****	Light Green
> 0.87	*****	Dark Green

Please hover the mouse over the bars to see the actual value.