

# Fire Alarm Matrix

(Based Upon the 2019 Title 24 Code Requirements)

Ancillary Function <sup>1</sup> ----- Occ. Group	Manual Fire Alarm Sys.	Auto Heat/Smoke	Manual & Auto Detection	Audible	Visible	Emerg. Voice/Alarm Comm.	Public Address System	Single Station Smoke Alarm	Smoke Det. (Release Service) <sup>2</sup>	Duct Det. <sup>3</sup>	Fire/ Smoke Dampers <sup>4</sup>	Smoke Control System <sup>5</sup>	Elevator Recall <sup>6</sup>	Electrical Supervision	Monitor Service <sup>7,8,9</sup>
A (300+)	X <sup>10</sup>			X	X				X	X	X		X	X	X
A (1,000+)	X <sup>10</sup>				X	X			X	X	X		X	X	X
A (10,000+)	X <sup>10</sup>				X		X		X	X	X		X	X	X
B	X <sup>10, 11</sup>	X <sup>12</sup>		X	X				X	X	X		X	X	X
B Amb. HCF		X <sup>12, 13</sup>		X	X				X	X	X		X	X	X
B Education <sup>14</sup>	X	X <sup>12</sup>		X	X				X	X	X		X	X	X
E <sup>15, 16</sup>			X	X <sup>17</sup>	X				X	X	X		X	X	X <sup>18</sup>
E, I-4 Daycare at Pub School		X		X <sup>17</sup>	X				X	X	X		X	X	X
E Private		X <sup>19</sup>		X <sup>17</sup>	X				X	X	X		X	X	X
E Daycare		X <sup>19, 20</sup>		X	X				X	X	X		X	X	X
F	X <sup>10, 21</sup>	X <sup>12</sup>		X	X				X	X	X		X	X	X
H	X <sup>22</sup>	X <sup>23</sup>		X	X				X	X	X		X	X	X
H above 10 <sup>th</sup> Story	X <sup>24</sup>			X	X				X	X	X		X	X	X
H - Gas Det.				X <sup>25</sup>	X <sup>25</sup>									X	X <sup>26</sup>
I-1 (Reserved)								X							
I-2, I-2.1 <sup>27</sup>			X <sup>12</sup>	X <sup>28</sup>	X <sup>29</sup>				X	X	X		X	X	X
I-3			X <sup>12, 30</sup>						X	X	X		X	X	X
I-4	X	X <sup>12</sup>		X	X			X <sup>31</sup>	X	X	X		X	X	X
I-4 Lrg. Family Daycare	X <sup>33</sup>			X <sup>33</sup>				X <sup>31</sup>							
L	X			X	X				X	X	X		X	X	X
M	X <sup>10, 32</sup>	X <sup>12</sup>		X	X				X	X	X		X	X	X
R-1		X <sup>12</sup>	X	X	X			X <sup>31</sup>	X	X	X		X	X	X
R-2	X	X <sup>12</sup>		X	X			X <sup>31</sup>	X	X	X		X	X	X
R-2.1 Licensed		X <sup>12</sup>	X	X	X			X <sup>31</sup>	X	X	X		X	X	X
R-3								X <sup>31</sup>							
R-3.1		X <sup>12</sup>						X <sup>31, 34</sup>	X <sup>35</sup>						
R-4		X <sup>12</sup>	X	X <sup>a</sup>				X <sup>31</sup>	X				X	X	X
Lrg. Family Daycare	X <sup>33</sup>			X <sup>33</sup>				X <sup>31</sup>							
Amusement			X			X <sup>36, 37</sup>			X	X	X		X	X	X
High-rise		X	X		X	X			X	X	X	X	X	X	X
Atriums	X	X			X	X						X		X	X
High-piled Combustibles		X		X	X							X <sup>38</sup>		X	X <sup>39</sup>
Aerosol Stg.	X			X	X									X	
Lumber, wood panel, veneer	X			X	X									X	
U.G. Buildings w/ smoke exh.		X	X	X	X	X						X	X	X	X
U.G. Buildings	X <sup>40</sup>					X <sup>40</sup>	X		X	X	X		X	X	X
Covered Mall <sup>41</sup>					X	X			X	X	X	X	X	X	X
Res. Aircraft Hangar								X <sup>42</sup>							
Air Traffic Control Tower		X		X	X										
Battery Storage <sup>43</sup>		X													X
Sound Stage		X										X		X	X <sup>44</sup>
C <sup>45</sup>	X	X		X	X										
F.G. Transit <sup>46</sup>			X			X								X	X
Winery Cave <sup>47</sup>	X			X	X									X	
Public Lib.														X	X <sup>48</sup>
Horse Racing Stables <sup>49</sup>		X													X
Pet Kennels <sup>50</sup>		X													X
Existing E <sup>51</sup>			X <sup>15</sup>	X	X				X	X	X		X	X	X
Existing I Prot. Soc. Care <sup>52</sup>		X		X	X				X	X	X		X	X	X
Existing I-1 <sup>53</sup>			X <sup>12</sup>	X	X				X	X	X		X	X	X
Existing I-2, I-2.1			X <sup>12, 54</sup>	X <sup>29</sup>	X <sup>30</sup>				X	X	X		X	X	X
Existing I-3 <sup>55</sup>			X <sup>12, 31</sup>						X	X	X		X	X	X
Existing R-1 Hotel/Motel <sup>56</sup>			X <sup>12</sup>	X	X			X <sup>31</sup>	X	X	X		X	X	X
Existing R-1 Board/Room			X <sup>12, 57</sup>	X	X			X <sup>31</sup>	X	X	X		X	X	X
Existing R-2 <sup>58</sup>			X <sup>12</sup>	X	X			X <sup>31</sup>	X	X	X		X	X	X
Existing R-4 <sup>59</sup>			X <sup>12</sup>	X	X			X <sup>31</sup>	X	X	X		X	X	X
Existing R-1, R-2 High-rise	X <sup>60</sup>	X <sup>60</sup>		X	X	X		X <sup>31</sup>	X	X	X	X	X	X	X
Existing High-rise <sup>61</sup>			X		X	X			X	X	X	X	X	X	X

