

Square Foot Basis

Summary of Costs for SB 575

Senate Bill 575 requires the State Allocation Board to adjust the existing grants for new construction, modernization, and hardship assistance for 50, 80, and 100 percent respectively of the costs associated with the purchase and installation of an automatic fire detection alarm and/or sprinkler system. The costs provided below were developed by the Office of Public School Construction (OPSC) using data provided by consultants to create an adjustment to the per pupil grants for new construction and modernization.

Part I: Automatic Fire Detection/Alarm System Estimated Costs

New Construction	Elementary ⁽¹⁾	Middle ⁽²⁾	High School ⁽³⁾
Automatic System	\$ 2.48	\$ 2.56	\$ 2.19
Less Manual System ⁽⁴⁾	<u>1.65</u>	<u>1.69</u>	<u>1.62</u>
Net Cost	\$.83	\$.87	\$.57
Modernization	Elementary	Middle	High School
Automatic System	\$ 2.48	\$ 2.56	\$ 2.19
Less Manual System ⁽⁵⁾	<u>.45</u>	<u>.46</u>	<u>.44</u>
Net Cost	\$ 2.03	\$ 2.10	\$ 1.75

Part II: Sprinkler System Estimated Costs

New Construction	Elementary	Middle	High School
Sprinkler System	\$ 2.59	\$ 2.56	\$ 2.48
Less savings in Construction Costs ⁽⁶⁾	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Net Costs	\$ 2.59	\$ 2.56	\$ 2.48

Part III: Net Additional Costs Per Pupil ⁽⁷⁾

New Construction	Elementary	Middle	High School
Automatic Fire Detection/Alarm System	\$ 58.93	\$ 73.95	\$ 57.00
Sprinkler System	<u>183.89</u>	<u>217.60</u>	<u>248.00</u>
Total	\$ 242.82	\$ 291.55	\$ 305.00
Modernization	Elementary	Middle	High School
Automatic Fire Detection/Alarm System	\$ 144.13	\$ 178.50	\$ 175.00

Part IV: Adjust for "Base Allowance" ⁽⁸⁾

New Construction	Elementary	Middle	High School
Automatic Fire Detection/Alarm System	\$ 53.63	\$ 67.29	\$ 51.87
Sprinkler System	<u>167.34</u>	<u>198.02</u>	<u>225.68</u>
Total	\$ 220.97	\$ 265.31	\$ 277.55
Modernization	Elementary	Middle	High School
Automatic Fire Detection/Alarm System	\$ 131.16	\$ 162.44	\$ 159.25

Assumptions:

- ⁽¹⁾ Based on estimated cost of elementary school between 35,000 sq. ft. to 40,000 sq. ft.
- ⁽²⁾ Based on estimated cost of middle school between 70,000 sq. ft. to 90,000 sq. ft.
- ⁽³⁾ Based on estimated cost of high school between 175,000 sq. ft. to 200,000 sq. ft.
- ⁽⁴⁾ Assumes Manual Fire Detection/Alarm System is already included in base grant amounts.
- ⁽⁵⁾ Assumes 27 percent of Manual Fire Detection/Alarm System is already included in base grant amounts.
- ⁽⁶⁾ Assumes no reduction as a result of construction cost savings by use of fire sprinkler system.
- ⁽⁷⁾ Assumes 71 sq. ft. for elementary, 85 sq. ft. for middle and 100 sq. ft. for high schools.
- ⁽⁸⁾ Since costs shown are based on current cost, amounts must be adjusted to the base pupil grant in 1998. Used 91 percent factors (estimate).

Part V: Recommended increase in New Construction base grant (before indexes) for net cost for Automatic Fire Detection/Alarm System/Sprinkler System @ 50 Percent

	Elementary	Middle	High School
Automatic Fire Detection/Alarm System	\$ 26.82	\$ 33.65	\$ 25.94
Sprinkler System	<u>83.67</u>	<u>99.01</u>	<u>112.84</u>
Total	\$ 110.49	\$ 132.66	\$ 138.78

Part VI: Recommended increase in Modernization base grant (before indexes) for net cost of Automatic Fire Detection/Alarm System @ 80 Percent

Elementary	Middle	High School
\$ 104.93	\$ 129.95	\$ 127.40

Part VII: Recommended increase in New Construction and Modernization grants (before indexes) for Special Day Class Pupils ⁽⁹⁾

New Construction	Severe	Non-Severe
Automatic Fire Detection/Alarm System @ 50 Percent	\$ 80.06	\$ 53.57
Sprinkler System @ 50 Percent	<u>278.86</u>	<u>183.23</u>
Total	\$ 353.92	\$ 236.80
Modernization	Severe	Non-Severe
Automatic Fire Detection/Alarm System @ 80 Percent	\$ 335.71	\$ 224.61

Part VIII: Recommended increase of \$3.30 in the square footage amounts (before indexes) in Regulations Sections 1859.73.2 and 1854.82 for replaced facilities and facility hardship ⁽¹⁰⁾

- ⁽⁹⁾ Based on base grant funding.
- ⁽¹⁰⁾ Average of elementary, middle and high school.

Note:

- Costs shown include:
- contractors general requirements, bonds and profit/overhead
 - design costs including A&E, CDE and DSA's fees
 - testing and inspection

Costs shown do not include all items of site development that would be allowed for the SB 575 requirements as authorized by Regulation Section 1859.76