



OptaSoft®
Intelligence for your safety

The only intelligent building code checking solution.

OptaSoft software serves code officials and design professionals by empowering them to streamline processes by utilizing data-lead decision making. Our C++ framework environment technology, through artificial intelligence, allows collaboration between designers and the respective permitting authority. It allows any designer the ability to speak the plan analyst's language, in order to determine code compliance as easily as a code official.

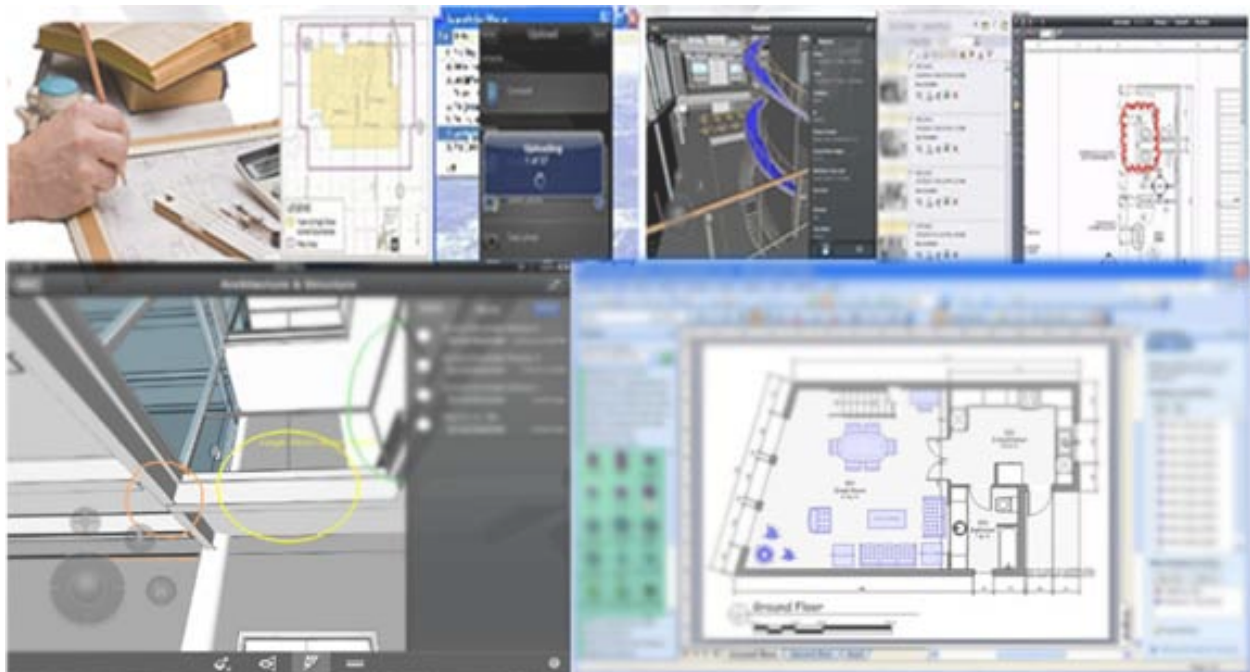
The problem with the current manual review process.

Since the existence of blueprints nearly 300 years ago, the construction industry has used paper and pencils to do its job. While a substantial number of progressive Architects, Engineers, Contractors and Consultants have been using computer-aided technologies on their projects for a few years, the plan review and building code compliance review process has, unfortunately, stayed pretty much the same.

Nevertheless, when it comes to code checking, these highly complex models created by thousands of firms, in most cases, have to be printed out on paper or digitally uploaded to a remote server or must be virtually simulated in order for code officials to manually review, mark-up, or digitally insert comments using an overlay technology.

The manual approach to code checking is tedious, inconsistent, sometimes inaccurate, slow, rather costly and inevitably subjective, as analysts impose their own understanding of the code issues in their personal review.

A true automation of this process achieves a significant improvement in productivity in the planning and code review phases for the entire building industry.



How do we Solve the Problem?

Until OptaSoft's revolutionary approach, solutions to the code checking compliance problem have been ineffective and one dimensional. The primary purpose of former solutions was to simply manage documents in a framework designed to change the embodiment of the materials to be reviewed (blueprints). They were deployed in the form of creating code studies, hosting a web-enabled service to submit plans for manual review, offering databases of building codes for electronic access, modeling the design in 2D, 3D, 4D, 5D, 6D or 7D to visualize, inserting mark-ups and comments on pdf drawings and comparing drawings side-by-side using digital overlay. All former solutions lead to increased challenges with implementation and higher overall cost, while failing to address the actual task of "code checking".

With OptaSoft's solution, you can expedite the process, increase your plan review accuracy, and achieve up to 95% review time savings.

Commercial Building Inspector[®] is an intelligent tool that automates the more mundane and routine design tasks associated with code checking, allowing all concerned to focus their expertise toward creating a more efficient and sustainable built environment.

Our innovative solution allows users to capture, analyze design tasks associated with code checking and generates compliance status reports with the click of a button prior to any submittals for a formal code review (QA & QC), which is the basis of any permit issuing authority compliance decision. This helps the Designer to ascertain the best ways to interconnect the building elements within the design at the front end of the project.

Once the plan has been submitted for review to the permit issuing authority, the permit issuing authority can utilize the software to determine whether the plan specifications are in compliance and easily guide the project to a compliance status. This reduces the potential for liability due to compliance error.

Best of all, it allows for early submission, preliminary project review with code compliance feedback, more accurate final submittals by the design professionals and facilitates faster review times. It also fits seamlessly within an organization's existing architecture that integrates granular permit data from source systems and links the database warehouse with rich transactional details.

Design tasks associated with code checking:

International Building Codes	Section
1. Doors Discharge Capacity	1005.3.1
2. Stairs Discharge Capacity	1005.3.1
3. Stair Riser Height and Tread Depth	1009.7.2
4. Most Restrictive Occupancy	Chapter 3
5. Occupancy Classification	Chapter 3
6. Room Names and Uses	Not Applicable
7. Exit Signs Illumination and Power Source	Sec 1006.1
8. Size of Egress Doors	Sec 1008.1.1
9. Door Swing	Sec 1008.1.2
10. Panic and Fire Hardware	Sec 1008.1.9.2
11. Stairway to Roof	Sec 1009.11
12. Stairway Landings	Sec 1009.8
13. Exit Sign Location	Sec 1011.1
14. Handrail Height	Sec 1012.2
15. Guardrail Height	Sec 1013.2
16. Exit Access Doorway Arrangement	Sec 1015.2
17. Dead End in Corridors	Sec 1018.4
18. Number of Exits for Occupant Load	Sec 1021.2
19. Building Height Modification	Sec 504.2
20. Mezzanines - Area Limitation	Sec 505.1
21. Building Area Modification	Sec 506.2
22. Unlimited Area Buildings	Sec 507
23. Accessory Use Area	Sec 508.2
24. Mixed Use Area Ratio	Sec 508.4.2
25. Floor Occupant Load Calculation	Table 1004.1.1
26. Common Path of Egress Travel	Table 1014.3
27. Spaces With One Exit	Table 1015.1
28. Exit Access Travel Distance	Table 1016.2

29. Corridor Fire Resistance Rating	Table 1018.1
30. Minimum Corridor Width	Table 1018.2
31. Stories With One Exit	Table 1021.2(1)
32. Bathtubs Count	Table 2902.1
33. Drinking Fountains Count	Table 2902.1
34. Lavatories Count	Table 2902.1
35. Showers Count	Table 2902.1
36. Water Closets Count	Table 2902.1
37. Water Closets Urinal Substitution	Table 2902.1
38. Building Height and Area	Table 503
39. Required Separation of Occupancies	Table 508.4
40. Incidental Accessory Occupancies	Table 509
41. Exterior Bearing Walls Fire Rating	Table 601
42. Floor Construction and Secondary Members Fire Rating	Table 601
43. Interior Bearing Walls Fire Rating	Table 601
44. Interior Nonbearing Walls Fire Rating	Table 601
45. Primary Structural Frame Fire Rating	Table 601
46. Roof Construction and Secondary Members Fire Rating	Table 601
47. Exterior Wall Fire Separation Based on Distance	Table 602
48. Percentage of Exterior Wall Openings	Table 705.8
49. Fire Walls Resistance Rating	Table 706.4
50. Assemblies Between Fire Areas Rating	Table 707.3.10
51. Fire Door and Fire Shutter Fire Protection Ratings	Table 716.5
52. Fire Window Assembly Fire Protection Ratings	Table 716.6
53. Interior Wall and Ceiling Finishes	Table 803.9

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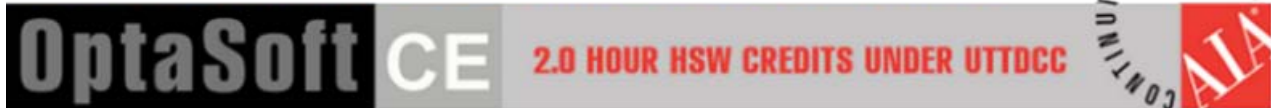


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USING TECHNOLOGY TO DETERMINE CODE COMPLIANCE



The training is approved by the AIA for Health, Safety and Welfare continuing education credits.

- One FREE session/purchase
- \$85 AIA members
- \$125 non-members

Enhance your early stage design with 2 hours of learning units of smart plan review software training and establish a schematic design code compliance prior to submittals.

- OptaSoft's smart-code compliance principles include triggering compliance requirements through change in the hazard ranking of the occupancy and construction type.
- Determine code compliance before submittal to review authorities.
- Learn how to ascertain the best ways to inter-connect building elements within your designs at the front end of your projects.
- Quickly and accurately verify Construction Type, Occupancy Classification, Size & Height, Fire Separation Distance, Percentage of Openings, and Structural Elements Ratings.
- Increase productivity when reviewing designs for compliance with the building codes and learn to speak the plan analyst's language in order to determine code compliance as easily as a plan reviewer.

The next-generation workforce will have to do more with less and they need a new set of tools. They are already experts on Facebook, Twitter and Text-messaging.

LET'S BE HONEST

Do we really expect them to manually mark up digital plans?



OptaSoft®

Intelligence for your safety

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