

STRUCTURAL BUILDING COMPONENTS MAGAZINE

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(The corresponding article appears in the current issue and will be posted Sept/Oct '06.)

Technical Q&A:

Fire Resistance Rated Truss Assemblies

by WTCA Staff

Quick Links to Fire Resistance Rated Truss Assemblies

There are four assemblies shown in WTCA's Fire Resistance Rated Truss Assemblies document that meet these criteria:

1. **GA FC5517 and TPI/WTCA FC-3921.** This assembly does not include insulation. However, the assembly can be modified to accommodate insulation by increasing its depth by the depth of the proposed insulation and installing this insulation above the original depth of the assembly. This assembly requires wood blocking secured with metal clips to back the gypsum panel seams. Complete documentation can be found in the Gypsum Association Fire Resistance Design Manual, available at <http://www.gypsum.org/>.
2. **NER 392 WTCA FR-SYSTEM 1™.** Like the previous example, this assembly does not include insulation, but can be modified to accommodate it. It also has backing behind the gypsum seams, but instead of wood blocking it uses FR-Quik Channel Sets™. Complete documentation can be found in the Evaluation Reports section at <http://www.icc-es.org/>.
3. **WH TSC/FCA 60-06.** This assembly allows insulation installed low in the plenum space. It requires TrusGard Protective Channels to be applied to the bottom chord of each truss. Complete documentation can be found at [http://etlwhidirectory.etlsemko.com/WebClients/ITS/DLP/products.nsf/\\$\\$Search?OpenForm](http://etlwhidirectory.etlsemko.com/WebClients/ITS/DLP/products.nsf/$$Search?OpenForm).
4. **NER-392 FR-SYSTEM 5™.** This assembly also allows insulation to be installed low in the plenum space. It requires a two-inch nominal wood shield member applied to the bottom of each truss, and FR-Quik Channel Sets as backing behind gypsum panel seams. Complete documentation can be found in the Evaluation Reports section at <http://www.icc-es.org/>.

The building designer should consult the listed agency's documentation for complete information.

Quick Link to a more detailed description of UL U338:

<http://www.ul.com/>
