At DTR Consulting Services we provide unsurpassed technical consulting services through a thorough understanding of our client’s expectations, project needs, construction budgets, and building owner requirements. We enable clients to be more efficient and profitable by using our knowledge and experience to bolster a client’s presentations and construction documents to increase a firm’s value in the eyes of their clients.
BREATHABLE STRUCTURES
WITHOUT WATER PENETRATION
#1 Cause of Litigation

Did you know roofs, skylights, glazed curtain walls, water leaks, and flooring failures are the #1 cause of litigation for design professionals? Building Code changes, energy efficiency goals and an increased push for sustainability are making a significant impact on the types of products we select and the order they are assembled.

DTR Consulting Services collaborates with our clients to increase their efficiency and profitability. By using DTR’s knowledge to bolster your presentation, design constructability or construction bid documents, we can increase your firm’s clients and limit exposure to potential claims.

Avoid Change Orders

Architecturally we want our structures to breathe, but not allow water to penetrate. The Building Code requires that the exterior wall envelope be designed and constructed to prevent the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior veneer.

To protect the entire Building Envelope, DTR takes an integrated approach to design and evaluation that includes exterior walls, glazing types, green roofs and traditional roofing systems, and the foundation (beneath slab). Using our expertise in Building Science, we can analyze the design, performance, and protection of the Building Envelope (exterior enclosure).

Building Envelope Services

Design and performance evaluations of Building Envelope (exterior enclosure) including:

01 // Finishes

- Dimensional stone
- Architectural pre-cast concrete
- Glass fiber reinforced concrete (GFRC)
- Masonry
- Panelized systems

02 // Materials

- Glazing types (architectural performance requirements)
- Deck traffic coatings
- Waterproofing systems
- Permeable walls (breathable)

03 // Roofs & Walls

- Green roofs (intensive, extensive and tray systems)
- Traditional roofing systems
- Curtain walls (glass, metal, stone)
- Glass roof and skylights
- Structural glass systems
- Exterior walls, doors and openings
- Below grade water protection
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To protect the entire Building Envelope, DTR takes an integrated approach to design and evaluation that includes exterior walls, glazing types, green roofs and traditional roofing systems, and the foundation (beneath slab). We use our expertise in Building Science; an interdisciplinary field of study that includes the design evaluation or analysis of the whole building system, building physics (heat, air and moisture transfer) and overall sustainability through material selection, skilled detailing and proper construction.

Our firm philosophy is to provide our clients with unsurpassed technical consulting services. Based on a thorough understanding of a client’s expectations, budget and building owner’s requirements, our expertise adds value to your team. With DTR Consulting Services you can be assured we will exceed your expectations.
Diagnosing leaks should always include inspection, testing and analysis of the leak location and the components or properties responsible for the issues. Once the problem is properly diagnosed, then a solution can be designed to stop the intrusion issues.

Utilizing DTR’s building science expertise during the design and construction of a building can dramatically reduce the overall liabilities associated with water intrusion, toxic mold, and premature building deterioration.

Water may enter below grade through joints, walls, or floors. Various below grade waterproofing systems address these problems and are available at varying costs, effectiveness, and installation invasiveness.

Many buildings start leaking immediately after construction or within the first five years. Water intrusion is one of the main contributing factors to litigation, building damage, structural damage, rot, termites and microbial problems that can lead to sick building syndrome.
WATER LEAKS, THE PLAGUE THAT WON'T GO AWAY!

Today many architectural firms employ talented designers who engage with the client during the design phases of the project. But clients not only want compelling design, they need a solid set of construction documents and an experienced team on the job site to oversee the contractor. Lack of attention during the design phase of a project can lead to water intrusion and harmful effects. Detailing of a building envelope cannot be removed through value engineering or be an afterthought. One mistake in a small detail can lead to significant problems.

PROTECT YOUR ASSETS
Today design firms and contractors work longer hours for less pay. They accept more liability just to remain in business. Stand out from the competition when you complement your team with DTR’s credentials and experience. Take less risk and ensure client satisfaction with the Building Science Guys on your team.

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