

# **BUILDING** Science Guys<sup>TM</sup>

## ADDING VALUE TO YOUR TEAM

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.

## WWW.DTRCS.COM

## BREATHABLE STRUCTURES WITHOUT WATER PENETRATION

**PROTECT YOUR ASSETS** 

### **BUILDING ENVELOPE** *#*SERVICES

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

## **O1**//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 and 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 wwaterproofing.

## **#1 CAUSE OF LITIGATION**

Did you know roofs, skylights, glazed curtain walls, v leaks, and flooring failures are the #1 cause of litiga professionals? Building Code changes, energy effi an increased push for sustainability are making a on the types of products we select and the order

> DTR Consulting Services collaborates with our their efficiency and profitability. By using D bolster your presentation, design constructa bid documents, we can increase your firm's clients *and* limit exposure to potential clair

## **AVOID CHANGE O**

Architecturally we want our s water to penetrate. The Build envelope be designed and co of water within the wall a barrier behind the exterior

> To protect the entire Bu approach to design ar glazing types, green ro foundation (beneath s to analyze the desig Envelope (exterior e

vater tion for design ciency goals and significant impact they are assembled.

clients to increase TR's knowledge to bility or construction value in the eyes of *your* ms.



## RDERS

structures to breathe, but not allow ing Code requires that the exterior wall onstructed to prevent the accumulation assembly by providing a water-resistive veneer.

hilding Envelope, DTR takes an integrated and evaluation that includes exterior walls, nofs and traditional roofing systems, and the selab). We use our expertise in Building Science n, performance, and protection of the Building nclosure).

## BUILDING SCIENCE GUYS

DTR is a consulting firm specializing in Building Science; an interdisplinary 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.

## **REDMEDIATION ARCHITECTURE** //services



#### SITE ANALYSIS

Analysis and documentation of actual site conditions, original contract, manufacturer's data and incident reports.



### FORENSIC INVESTIGATION

Complete investigation, destructive testing, analysis of proposed remediation. Building verification through specialized forensic analysis.



#### RECONSTRUCTION

Bid documents with full set of drawings and specifications for Contractor selection and pre-qualification assistance.

## WATERPROOFING

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.

### WATERPROOFING Below grade

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.

## SICK BUILDING SYNDROME

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**

## DON'T WORK Harder for More risk

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. 1 L

LE IS

Los Angeles | San Francisco | Sacramento | Phoenix toll free: 855-705-3600 www.dtrcs.com

DTR Consulting Services, Inc. Copyright © 2007-2016