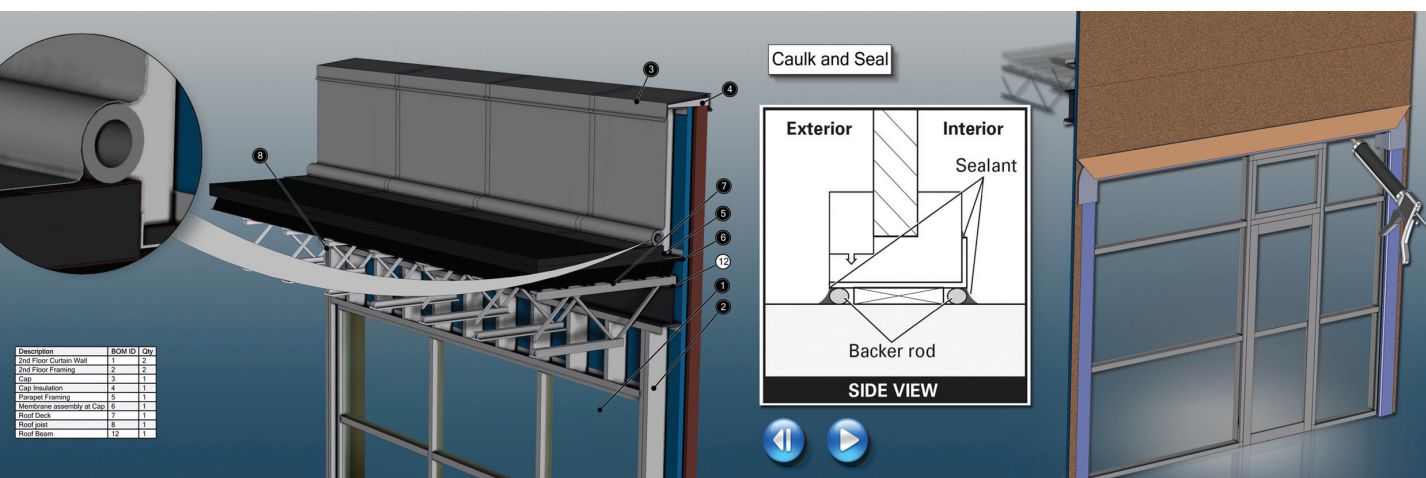**3DEXPERIENCE**

WORK INSTRUCTIONS FOR CONSTRUCTION
IMPROVE PROJECT EFFICIENCY AND WORKER SAFETY

Deliver highly effective work instructions from existing 3D models

In an industry where a majority of jobs experience cost overruns or delays, construction companies are under tremendous pressure to efficiently deliver projects to the global market. The challenge is to work effectively with subcontractors around the globe to complete construction on time, and on budget, while eliminating waste and injury.

One major contribution to project delay is poor communication of work instructions and documentation necessary to support the construction plan. The typical workflow for creating these instructions is highly inefficient and the final deliverables are often difficult to understand, contributing to low quality installations, project delays and compromised worker safety.

3DVIA Composer* leverages existing 3D design data (CAD/BIM/VDC) to enable rapid development of clear and unambiguous work instructions. By using existing CATIA or SOLIDWORKS design models or importing other industry formats, project teams have an efficient production process that creates easy to understand deliverables that clearly convey project schedules, train workers more effectively and consistently, and help to minimize accidents, errors and project rework.

*SolidWorks Composer provides identical capabilities

Create Efficiently

Construction projects around the globe are optimizing construction processes by providing highly accurate 3D visuals and 2D illustrations to support scheduling and work instructions. 3DVIA Composer enables these materials to be created quickly and easily, helping to ensure project tasks are not delayed due to incomplete documentation. Easy to learn and intuitive to use, 3DVIA Composer provides an unmatched toolset for developing a variety of visual project communications directly from existing 3D design data.
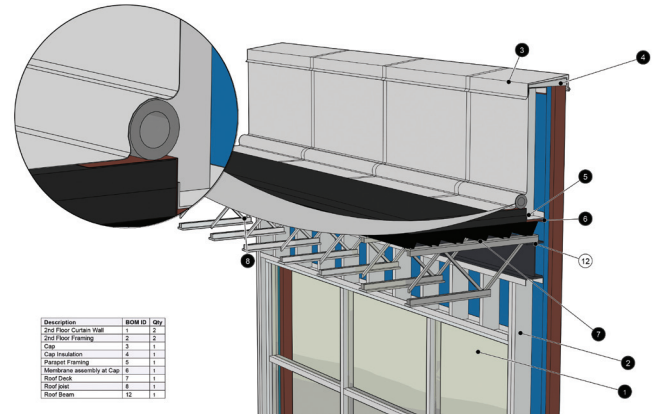
Plan Collaboratively

For maximum understanding of project phases, 3DVIA Composer provides the ability to develop step-by-step construction animations that illustrate how to assemble, install and maintain building elements. These instructions are easily shared among project stakeholders to visually compare as-planned projects with as-executed results. This ensures buildings are built how, and components are placed where, you want them. The on-going conversation between a contractor, engineer, construction manager, designer and trades is better communicated with clear instructions that minimize errors.

Schedule Accurately

Using 3DVIA Composer, animated 3D instructions are created based on best practice construction process. These animations can be published to clarify scope for price evaluation, or delivered onsite to train workers on construction tasks. By being able to clearly understand the scope, contractors provide more accurate cost feedback and promote the execution of first-time-right construction with teams in the field.

Educate Effectively

Educating new workers on construction process and practices is a challenge for any construction company. By displaying step-by-step construction procedures in 3D any ambiguity that may occur with traditional 2D static images is eliminated. Visual communications minimize the need to provide complex written instructions or hand waving to educate field teams on construction procedures. This allows non-technical teams to learn procedures faster, and minimizes the cost of localizing documents for use by non-native speaking workers.

Description	BOM ID	Qty
2nd Floor Curtain Wall	1	2
2nd Floor Framing	2	2
Cap	3	1
Cap Insulation	4	1
Parapet Framing	5	1
Membrane assembly at Cap	6	1
Roof Deck	7	1
Roof Joist	8	1
Roof Beam	12	1

Work Safely

3DVIA Composer provides a fast and easy way to create clear visual instructions that minimize risks by ensuring workers fully understand all aspects of their required task. By illustrating what tools to use and where to use them, identifying potential hazards, or educating new employees on the company's best practices, contractors protect the health and safety of their workers while streamlining work process.

Deploy Anywhere

3DVIA Composer is an ideal complement to familiar Microsoft® Office®, PDF, and HTML content delivery tools, providing enhanced communications whenever, and wherever, needed. Combined with the 3DVIA Composer Player and 3DVIA Composer Player Pro, interactive 3D work instructions can be flexibly delivered to workers according to the needs of each project.

Contact us to discover for yourself how 3DVIA Composer can help improve project efficiency and worker safety:

Visit www.3DS.com/3dvia to learn more.

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