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Expansion joints in sheetrock walls

AMICO Drywall Control Joint Deep "V" (with Removable Tape) is designed to help relieve stress in large areas of drywall or veneer plaster installations. Perforations and ridges on all surfaces that receive finishing compound or veneer assure excellent adhesion. Provides a 1/16" ground.

Drywall Control Joint PRODUCT NO.DIMENSIONSBOARD THICKNESSPCS PER BOX AMDCJV16214" Width Perforated Flange 3/16" RevealAll60 Standard Length: 10 Feet Donald E. Smith, CCS March 2008 Don Allen from the Steel Framing Alliance came up with this month's question, which deals with the definitions of expansion joints and control joints. Another part of the question concerned the bridging of a control joint in a building with a drywall soffit. The crux of the problem seems to be that the contractor does not believe that bridging a control joint in an exterior concrete wall with cold formed steel framing will present a problem in the future. Let's deal with the definitions first. These definitions have been a contentious issue in past meetings of ASTM Committee C11, Gypsum and Related Building Materials and Systems. Currently there are three definitions in ASTM C11-07, Standard Terminology Relating to Gypsum and Related Building Materials and Systems, that come into play: Building construction joint, n—a designed division of a building that allows movement of all component parts of the building, in any plane which may be caused by thermal, seismic, wind loading or any other force. The construction of the separation is accomplished by one of the following methods: (1) manufactured devices suitable for this application, or (2) by field fabrication of suitable materials. Control (expansion construction) joint, n—a designed separation in the system materials that allows for movement caused by expansion or contraction of the system. The construction of the separation is accomplished by one of the following methods: (1) manufactured devices suitable for this application, or (2) by field fabrication of suitable materials. Expansion joint, n—see control (expansion contraction) joint. At a recent ASTM meeting, C11 was successful in adopting new definitions for expansion joints and control joints for use in C1063, Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland-Cement Based Plaster. These are the definitions as adopted: Control joint, n—a joint that accommodates movement of plaster shrinkage and curing along predetermined, usually straight, lines. Expansion joint, n—a joint that accommodates movement beyond plaster shrinkage and curing. Note: For design consideration of control and expansion joints, see ASTM C926, Section A2.3.1.2. The definitions in C11 are not affected by this change in C1063. In fact, the definitions in C1063 apply only to C1063. To return to the case in point, the contractor has bridged over a control joint using cold formed steel framing. The specifications stated that the steel framing cannot bridge over control joints. The contractor refuses to take corrective action because he does not believe that bridging the control joint will cause problems. Control joints are used to prevent cracking of the overlaying materials and systems applied over the structure. While drywall is considered a flexible finish, it will crack when movement occurs in the underlying structure. The parameters for placement of control joints are specified in ASTM C840, Standard Specification for Application and Finishing of Gypsum Board: "A control joint shall be installed where a partition, wall or ceiling traverses a construction joint (expansion, seismic or building control element) in the base building structure." I do not think this requirement could be any clearer. The individual posing the question seems to think that MasterSpec or the American Iron and Steel Institute should cover these requirements in greater detail. The fact is that the new International Building Codes (I-Codes) reference ASTM standards and specifications for specifics of work to be performed. MasterSpec incorporates industry standards by reference just as the I-Codes do. AISI standards address the specifics of steel, both red iron and cold formed, structural and non-structural. AISI does not have an interest in the application of finish materials such as drywall. There was also a request for technical backup to support the position of having the contractor install the control joints in the soffit. It seems to me that if the requirements are in the contract documents, and if it is a reasonable requirement, the contract documents should prevail. Remember that control joints play an important role ensuring that cracks do not appear in the finished surface. Done correctly, you will eliminate callbacks. Don Smith is AWC's director of technical services. Best Practices to Design and Install Control JointsThere is a reason control joints are considered essential for whatever projects you have in design. Thermal expansion and contraction will occur in buildings – that's a given – and control joints help prevent resulting cracks and damage. Wind, temperature fluctuation, live loads, deflection or seismic stress all affect the movement of buildings. Control joints relieve these stresses by allowing for movement. Yet there are best practices and installation standards to consider.National Gypsum's Construction Design Managers share questions they often receive, which we think you'll find helpful.Figure 3 from GA-216, Application and Finishing of Gypsum Board Panel ProductsImage from GA-234, Control Joints for Fire-Resistance Rated SystemsKey Questions and Answers About Control JointsQ: Why should I include control joints in my designs?A: Thermal expansion and contraction will occur in buildings, and they often manifest in material finish cracks. Control joints will help prevent cracks caused by thermal expansion and contraction. We recommend using them.Q: Where should I install control joints?A: Control joints shall be installed where a wall or partition runs in an uninterrupted straight plane exceeding 30 linear feet (50 linear feet on center for ceilings with perimeter relief).Q: What are the guidelines for control joints – and are there any exceptions?A: The Gypsum Association technical document "Application and Finishing of Gypsum Panel Products, GA-216" and ASTM C840 "Standard Specification for Application and Finishing of Gypsum Board" provide the same guidance to install control joints. For details about blocking behind the control joint in a fire-rated system, consult GA-234 "Control Joints for Fire-Resistance Rated Systems."Q: What is the difference between control joints and expansion joints?A: These terms are often used interchangeably, so it depends on who you ask. Control joints prevent cracks in finish materials. Expansion joints (also called construction joints) can reduce the effects of building movement on building materials, and they separate the building structurally. Buildings move as a result of wind, temperature fluctuation, live loads, deflection or seismic stress.Q: How do I specify control joints? Do I need to include this information in the written specifications, or can I just include it on the drawings?A: Write your specifications in the gypsum board assemblies section. Include the information to install the gypsum board per GA-216 or ASTM C840. These industry-approved technical documents provide the necessary guidance for installation and location of control joints. You should also indicate the location of control joints on your drawings, especially where aesthetics are important.Q: Do I need a control joint if I have a deflection track? A: No, unless your wall exceeds 30 linear feet. The need for control joints is not dictated by the use of deflection track.Q: For a hyper-sensitive visual project, can I reduce or eliminate the use of control joints?A: No. Not without limiting straight planes of gypsum board to 30'.Q: Does the gypsum board thickness affect the design of the joints?A: No, the design of the control joint is the same for all gypsum board, regardless of thickness (1/2" or 5/8").Q: Should I install control joints on exterior gypsum sheathing?A: It is not mandatory. The standard for the installation of gypsum sheathing, ASTM C1280, "Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing," does not require control joints for the sheathing. The weather barrier and cladding manufacturers will determine the need for control joints. Follow their recommendations.Q: Does the framing material matter when designing control joints? Is the design different for wood-framed assemblies versus steel-framed assemblies?A: No, the guidelines are the same for both.Q: Is there a preference in the control joint material – vinyl or metal?A: Control joints are available in vinyl and metal, but metal control joints dent more easily. For more guidance, consult the gypsum board section 092900 or 092116 under "Trim Accessories."Q: What is the best joint treatment method to prevent cracking?A: Paper tape and setting compound is the best.Contact Your NGC Construction Design Manager for More Guidance If you have additional or specific project questions, don't hesitate to contact your National Gypsum Construction Design Manager. He or she is here to help you design and build better.Contact Your NGC Construction Design Manager for More Guidance If you have additional or specific project questions, don't hesitate to contact your National Gypsum Construction Design Manager. He or she is here to help you design and build better.Click here to read previous editions of the OnBoard Newsletter. when to use expansion joints in drywall. how to install drywall expansion joints. what is a drywall expansion joint

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