




TECHNICAL BULLETIN

WHAT YOU NEED TO KNOW ABOUT CE-MARKING FOR SEALANTS

You will have noted that on many of the Soudal cartridges in the new layout the new CE marking appears.

This is the result of a European Regulation, the CPR (Construction Product Regulation), which makes it mandatory that certain products which are subject to a harmonized EU standard used in the construction industry need to state their area of performance and their actual performance characteristics.

This statement needs to be visible on the packaging in a frame looking like this:

	Year of first CE marking Code of Organisation which has issued the test
	Soudal DoP XXXXX
	EN 15651-X
	Performance Statement

With regards to sealants there are 4 areas for which this CE marking is relevant, based on the European Norm 15651:

- EN 15651-1 sealants for façade elements (F)
- EN 15651-2 sealants for glazing (G)
- EN 15651-3 sealants for joints in sanitary application
- EN 15651-4 sealants for areas on which pedestrians walk

For a CE marked building product a DoP (Declaration of Performance) needs to be available. Such a DoP is issued by the manufacturer based on tests executed by an independent test institute or tests performed by the manufacturer and approved by such an institute. The DoP needs to be kept available for a period of 10 years. Each DoP has a unique number only valid for the specific type of product. A given product can be used in one, several or even all areas.

These areas are explained as follows:

EN 15651-1 SEALANTS FOR FAÇADE ELEMENTS (F)

Non load bearing façade sealants which are used in high rise construction for the sealing of joints in exterior applications as well as for door- and window frame sealing in interior applications.

Types are as follows:

- Type F-INT – only for interior applications
- Type F-EXT-INT – both for interior and exterior applications
- Type F-EXT-INT-CC – both for interior and exterior applications, suitable for Cold Climates

In addition the allowed movement performance as well as the categorization of the sealant compartment as elastic or plastic and low modulus or high modulus is defined:

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P (plastic) or E (elastic)	7.5P – 12,5P – 12.5E
LM (Low Modulus) or HM (High Modulus)	20LM – 20HM – 25LM, 25HM

Example: **F-EXT-INT-CC-25LM**

EN 15651–2 SEALANTS FOR GLAZING (G)

Non load bearing elastic sealants which are used in the sealing of glazing in high rise construction. This type covers glazing sealants which are applied at an angle to horizontal of 7° and more:

Glass to Glass

Glass to Frame

Glass to porous substrates

Types are as follows:

Type G – joint sealant for glazing

Type G-CC – joint sealant for glazing, suitable for Cold Climates

In addition the allowed movement performance as well as the categorization of the sealant compartment low modulus or high modulus is defined:

LM (Low Modulus) or HM (High Modulus)	20LM – 20HM – 25LM, 25HM
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Example: **G-CC-25LM**

EN 15651–3 SEALANTS FOR JOINTS IN SANITARY ENVIRONMENTS (S)

Joint sealants used in sanitary areas in interior applications which are not exposed to water pressure:

Bathroom

Toilets

Showers

Domestic kitchens

Types are as follows: **S1, S2, S3**

Joint sealant for sanitary areas

S1 to S3 differ in the performance of the fungicide in the sealant – the highest resistance class is S1, the lowest S3.

Type: X

The additional X indicates a limited shrink of the sealant. Without the X the sealant is typed as having large shrink

Example: **XS1**

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EN 15651-4 SEALANTS FOR PEDESTRIAN WALKWAYS (PW)

Non load bearing sealants which are cold applied for the sealing of joints in interior and exterior applications for expansion joints in floors.

Floor joints in pedestrian walkways which are open to the public

Expansion joints between concrete slabs, for example on balconies, in warehouses, etc.

Types are as follows:

Type PW-INT – only for interior applications

Type PW-EXT-INT – both for interior and exterior applications

Type PW-EXT-INT-CC – both for interior and exterior applications, suitable for Cold Climates

In addition the allowed movement performance as well as the categorization of the sealant compartment as low modulus or high modulus is defined:

LM (Low Modulus) or HM (High Modulus)	20LM – 20HM – 25LM, 25HM
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Example: **PW-EXT-INT-CC-25LM**

Conclusion

Code of Product type	Application area
EN 15651-1 TYPE F-INT	Joint Sealant for façade elements - interior applications only
EN 15651-1 TYPE F-EXT-INT	Joint Sealant for façade elements, interior and exterior applications
EN 15651-1 TYPE F-EXT-INT-CC	Joint Sealant for façade elements, interior and exterior applications – also suitable in cold climate zones
EN 15651-2 TYPE G	Joint sealant for glazing joints
EN 15651-2 TYPE G-CC	Joint sealant for glazing joints – also suitable in cold climate zones
EN 15651-3 TYPE S	Joint sealant for sanitary areas (sub classification S1-S2-S3) – X = low shrink
EN 15651-4 TYPE PW-INT	Joint sealant for pedestrian walkways – interior applications only
EN 15651-4 TYPE PW-EXT-INT	Joint sealant for pedestrian walkways – interior and exterior applications
EN 15651-4 TYPE PW-EXT-INT-CC	Joint sealant for pedestrian walkways – interior and exterior applications – also suitable in cold climate zones

Coding for elastic/plastic performance and joint movement performance

Maximum movement	+/-25%		+/-20%		+/- 12.5%		7.5%
Type	Elastic				Plastic		
Sealant Classification	25LM	25HM	20LM	20HM	12.5 E	12.5P	7.5P

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Joint Sealant for façade elements	X	X	X	X	X	X	X
Joint Sealant for glazing sealing	X	X	X	X			
Joint Sealant for pedestrian walkways	X	X	X	X			

As advised, a given product can be used in several areas:

Example Silirub 2/S:

EN 15651-1:2012: Type F - EXT-INT-CC: CLASS 25LM

EN 15651-2:2012: Type G-CC: CLASS 25LM

EN 15651-3:2012: Type S: CLASS XS1

Example Soudaseal 240FC

EN 15651-1:2012: Type F - EXT-INT-CC: CLASS 20HM

EN 15651-3:2012: Type S: CLASS XS1

EN 15651-4:2012: Type PW-INT

This is stated in the DoP of each specific product.