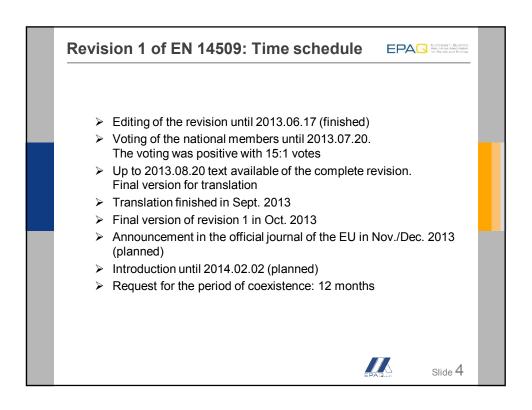
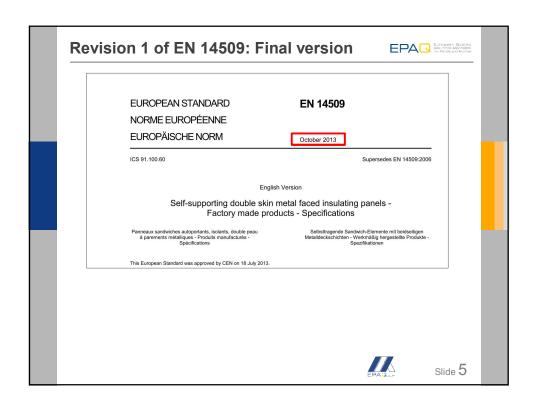
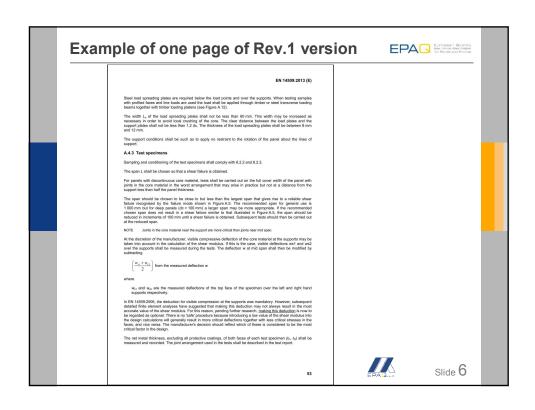
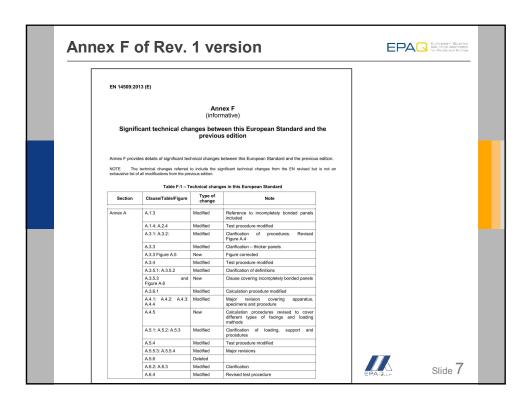


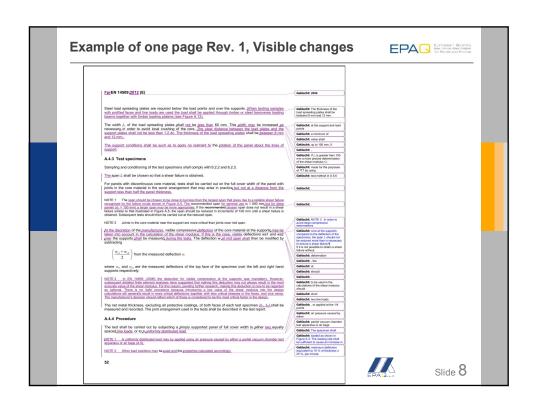
Por European Standards it is generally required to make a revision after five years validation. Therefore a revision 1 is conducted for EN 14509 on the base of the following resolution of 2011.10.05: > "Resolution No. 16, CEN/TC 128 SC 11 Plenary Meeting: Acceptance of Draft First Revision of EN 14509 for UAP".

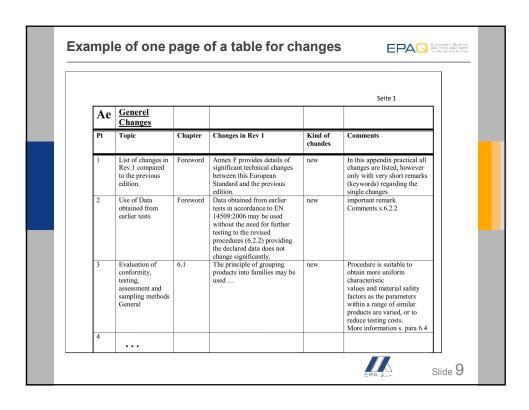


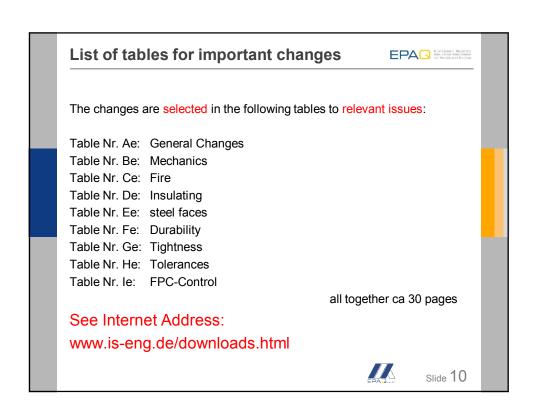




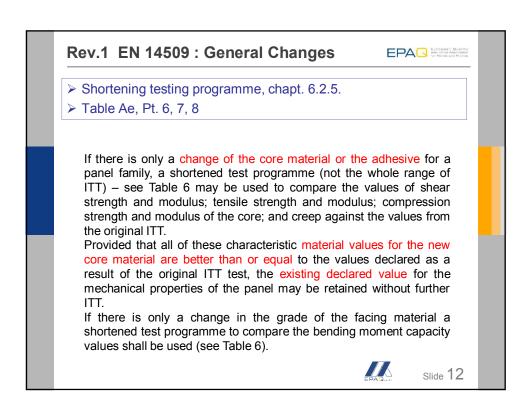


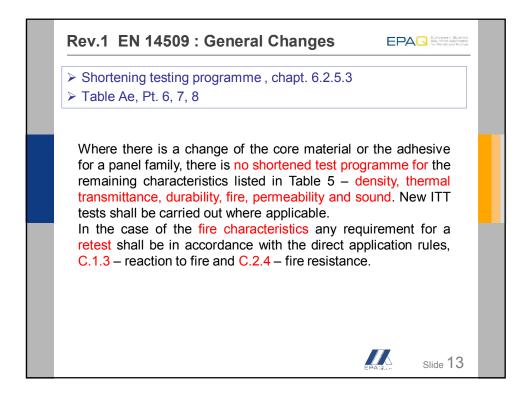


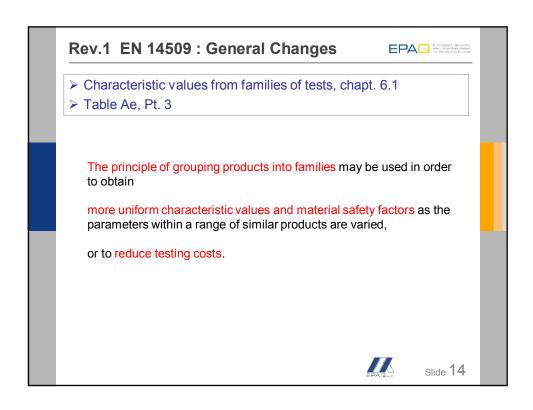


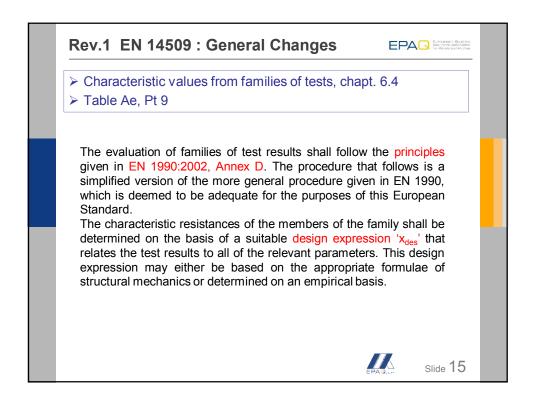


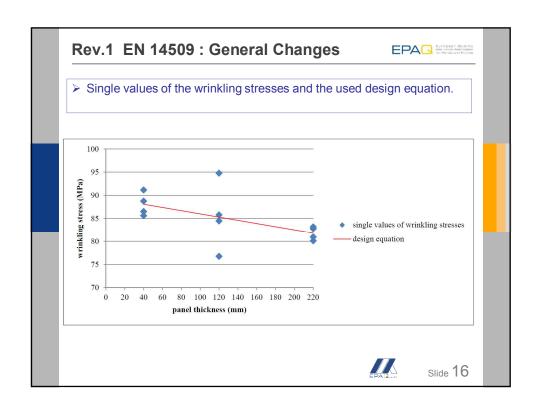
Rev.1 EN 14509 : General Changes Use of Data obtained from earlier tests, chapt.6.2.2 Table Ae, Pt. 2 and 4 In general, it is not required to repeat ITT tests previously performed in accordance with the provisions of EN 14509:2006. There are two exceptions as follows: a) Reaction to fire test EN ISO 11925-2. In cases where the edge was protected in the original test and is unprotected in the new test (See C.1.2) the product shall be retested. b) Where the thermal transmittance was calculated using the tabulated values in A.10, the thermal transmittance shall be recalculated.

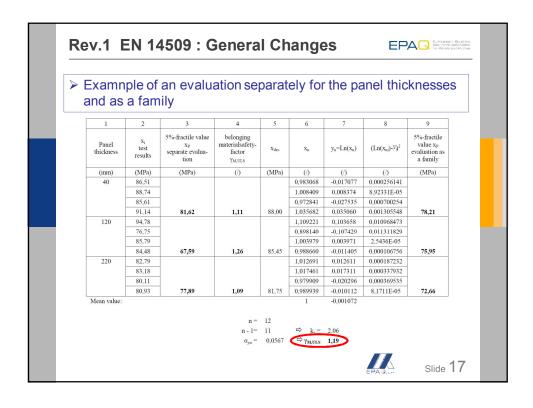


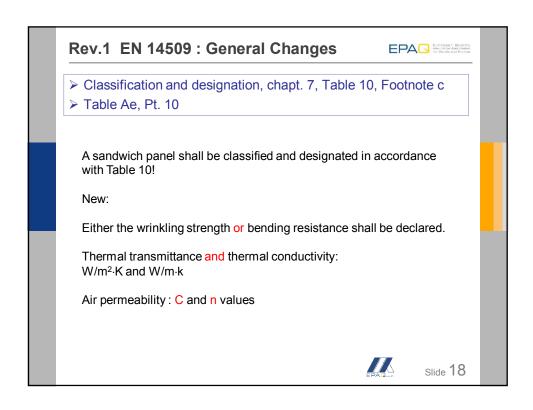


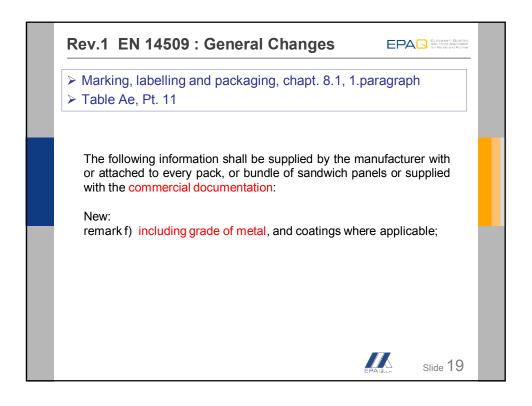


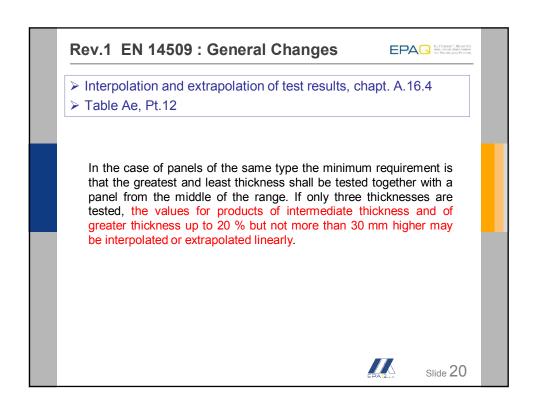




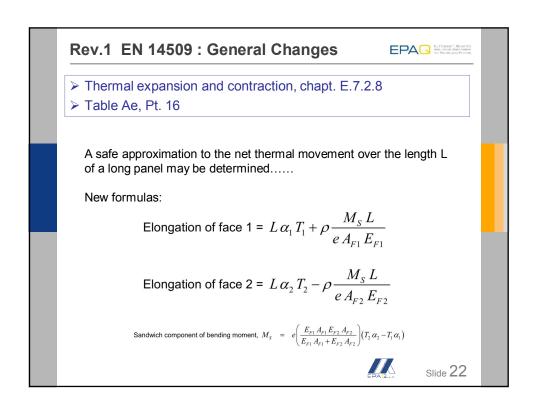


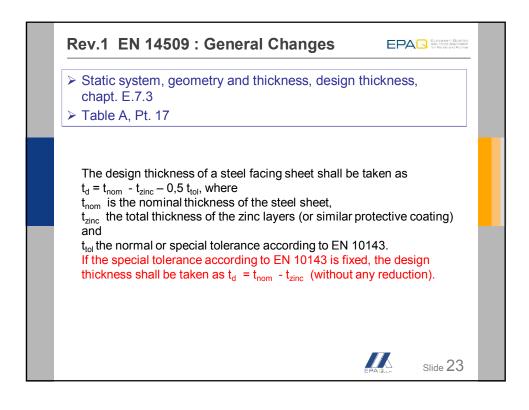


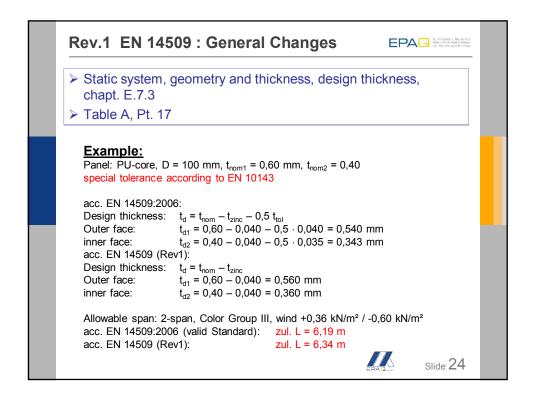


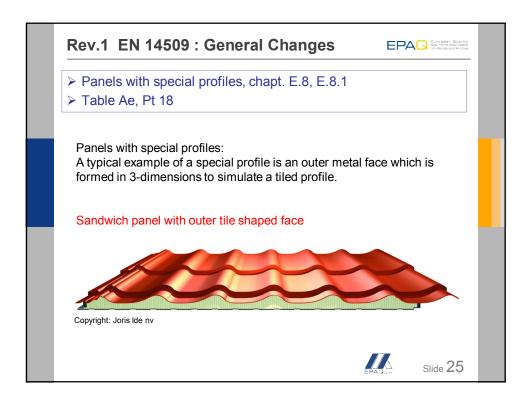


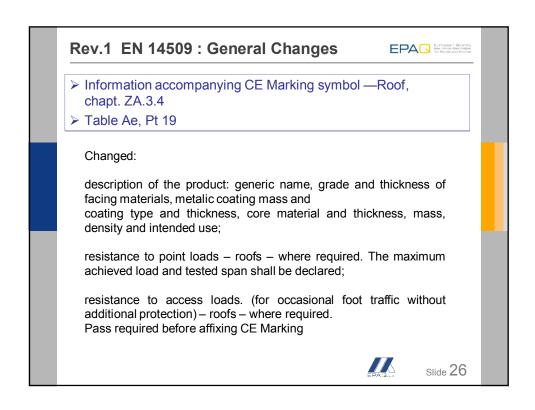
Rev.1 EN 14509 : General Changes Serviceability limit state, chapt. E.5.4 Table Ae, Pt. 14 The serviceability limit state shall be characterized....: The attainment of specified amounts of axial movement in the panel due to thermal expansion and contraction in the faces. This effect is likely to be a potential problem only in special cases with long panels e.g. 20 m with aluminium facings, particularly at end laps.

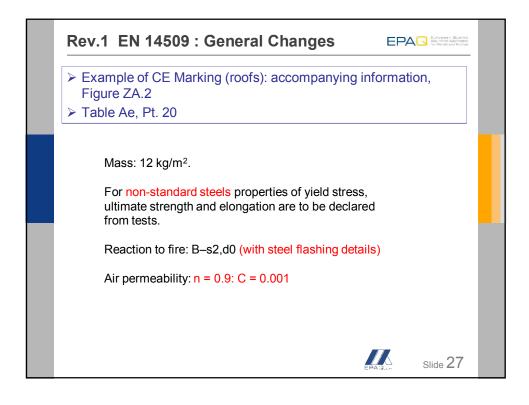


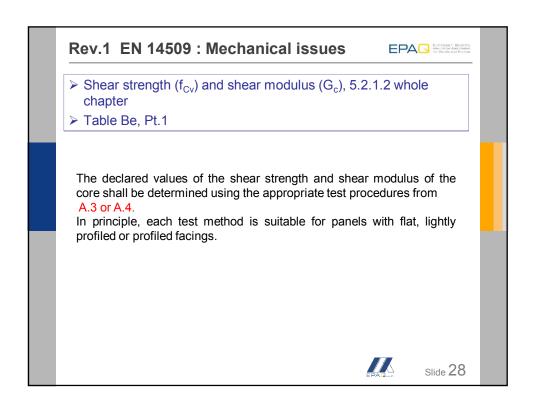




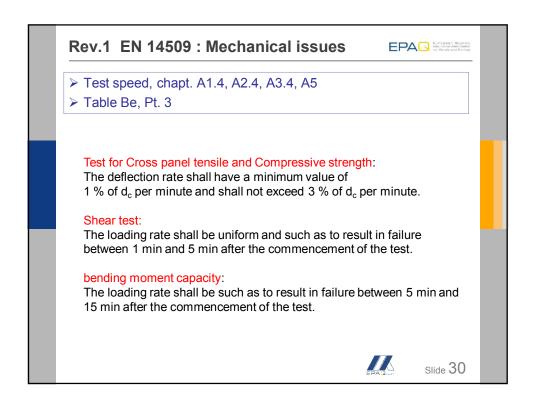


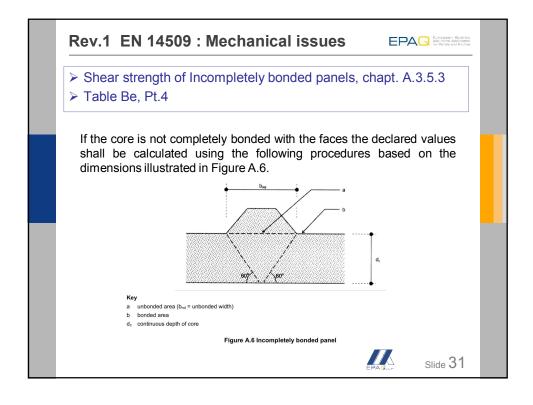


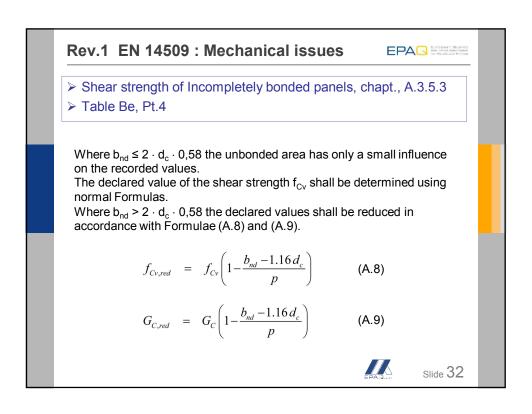


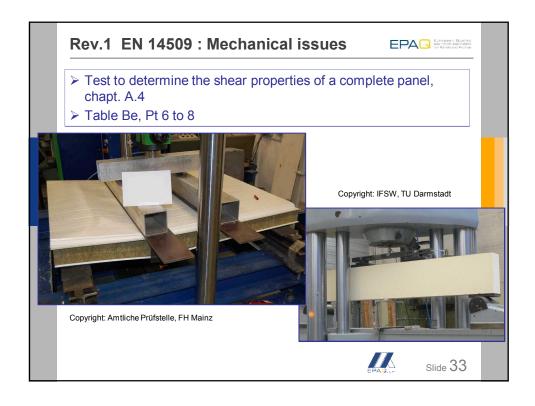


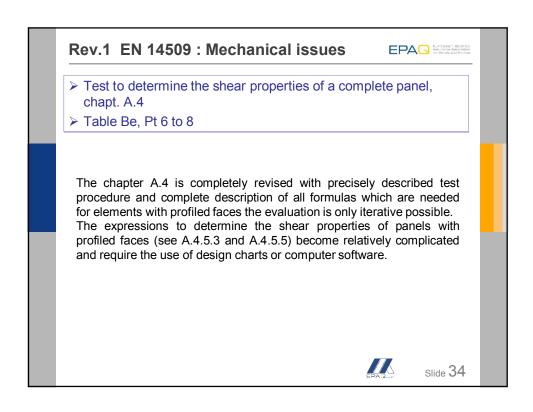
Rev.1 EN 14509 : Mechanical issues Pequipment capacity (M_u) and wrinkling stress (σ_w), chapt, 5.2.1.7 whole chapter Table Be, Pt. 2 Wrinkling stress is related to bending moment by a simple mathematical relationship so that it is not necessary to declare both the bending resistance and the wrinkling strength. If it is intended that design shall be carried out on the basis of calculations in accordance with Annex E, it is preferable to declare the wrinkling strength wherever possible. The bending resistance shall be declared together with the span of the test specimen.

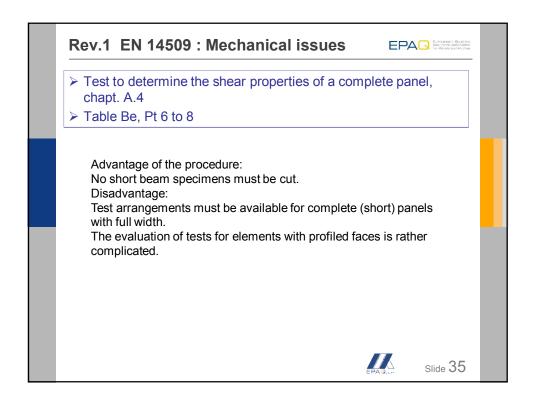


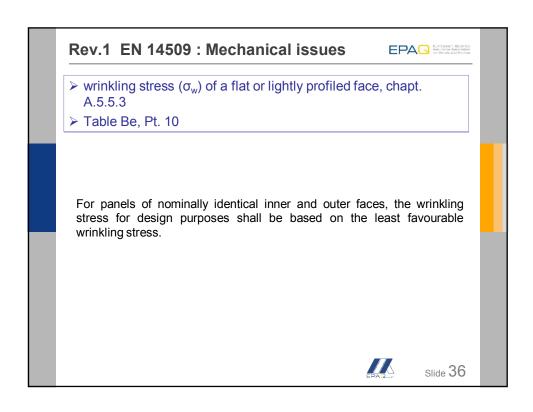




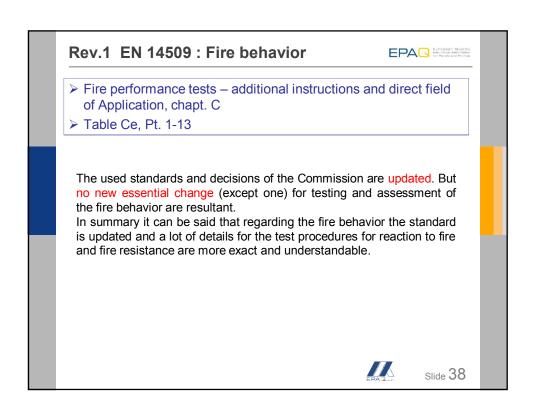


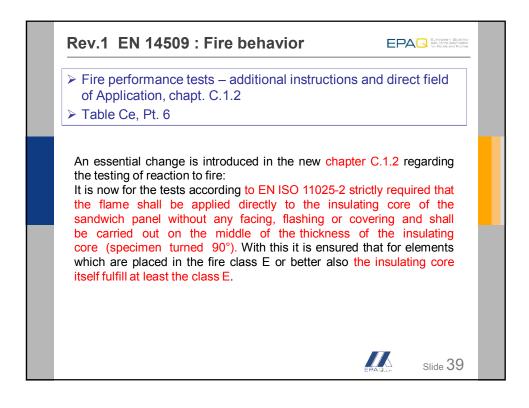


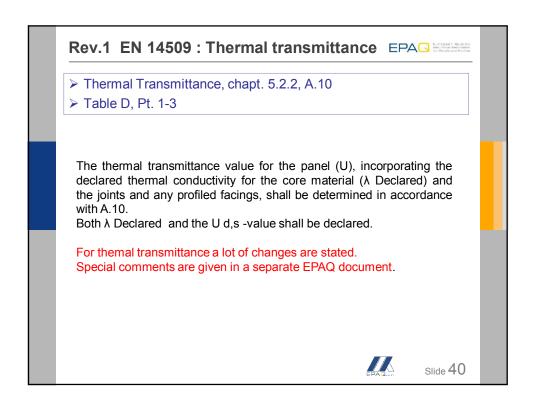


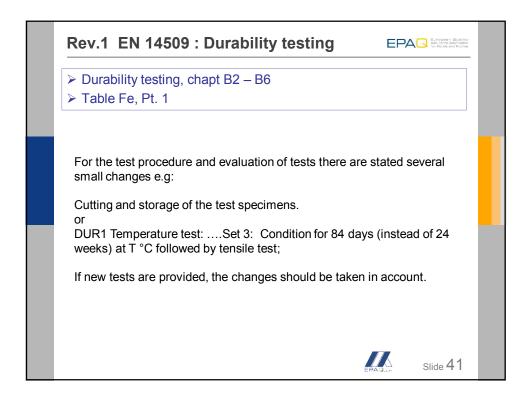


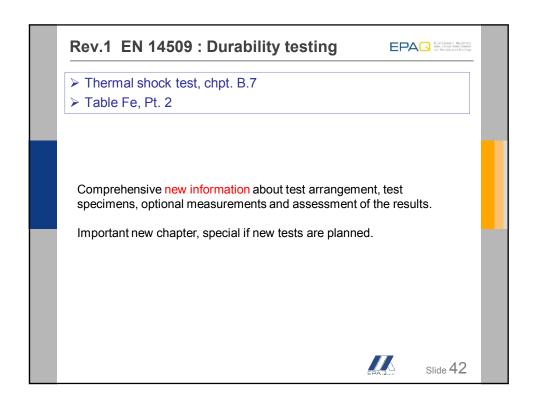
Rev.1 EN 14509 : Mechanical issues > Determination of the creep coefficient (φ_t), chapt. A.6 > Table Be, Pt. 11 and 12 New: Detailed comments regarding the test procedure. Very useful for the laboratories Some new statements, e.g.: Where the range of thickness is up to 200 mm the thickest panel shall be tested. If the thickest panel exceeds 200 mm, it is sufficient to test a panel of 200 mm thickness.

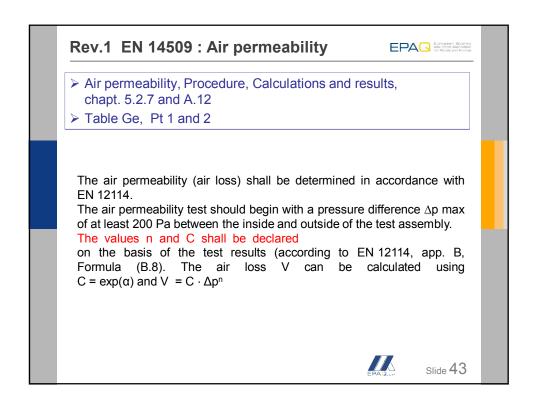


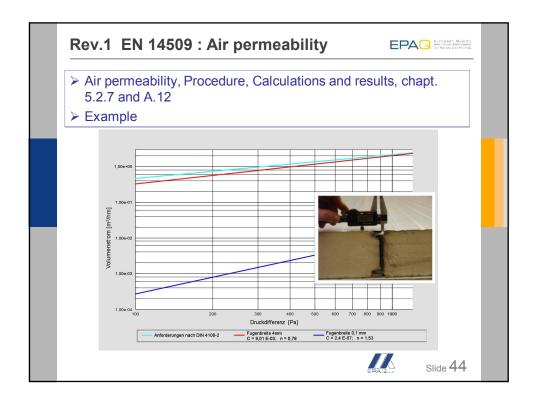


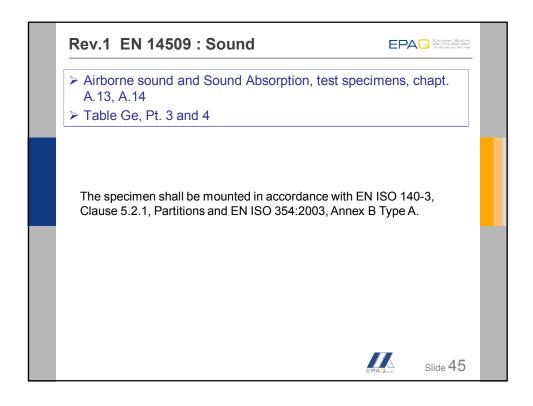


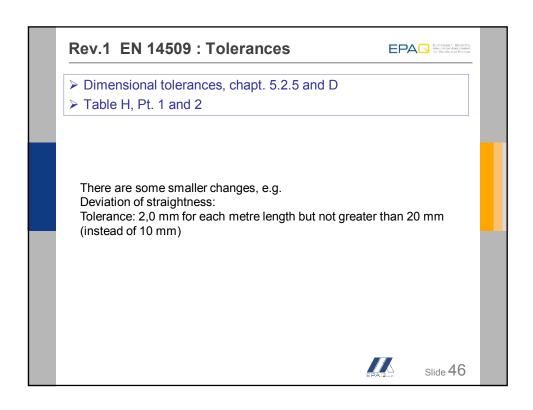




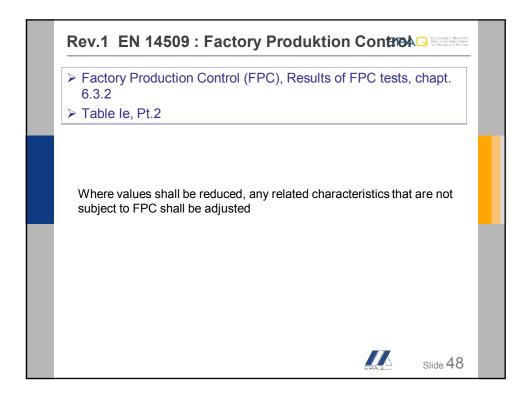








Rev.1 EN 14509 : Factory Produktion Control EPAC CONTROL Factory Production Control (FPC), General, chapt. 6.3.1 Table le, Pt.1 Where this European Standard permits alternative test procedures to be used, all FPC tests shall be carried out using the test procedure that was used for the corresponding ITT tests. Where CE marking is based on the use of existing ITT test data in accordance with 6.2.2,, it is permissible to use the same test speed for FPC tests that was used for the original ITT tests.



Rev.1 EN 14509 : Factory Produktion Control EPA Contro

- > Factory Production Control (FPC), Results of FPC tests, chapt. 6.3.2
- > Example

If a shear modulus of 5,0 MPa must be reduced to 4,0 MPa the relevant wrinkling stresses shall be also reduced, e.g. with the factor

$$\sqrt[3]{\frac{G_{\text{reduced}}}{G_{\text{existing}}}} = \sqrt[3]{\frac{4,0}{5,0}} = 0,928$$

in dependence on EN 14509, A.5.5.3 [2]



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Rev.1 EN 14509 : Factory Produktion Control EPA Fractory Produktion Control

- > FPC controls for fire characteristics
- > Minimum testing frequencies for components for reaction to fire characteristics,
- > Chapt. 6.3.5.3
- > Table le, Pt.4

Core material:

Check of raw material or chemical formulation and density (A.8)

1 per shift/6 or 8h (instead of 1 per day)



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