



**Teräsraakenneyhdistys**

Finnish Constructional Steelwork Association

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# Teräsraakennekatsaus 12/2024

**Kantavien teräs- ja alumiinituotteiden  
standardointipyyntö**

**Teräsraakenneyhdistys ry**

# Kantavien teräs- ja alumiinituotteiden standardointipyyntö

- Nykyisen rakennustuoteasetuksen perusteella Komission toimesta annettava standardointipyyntö
- Standardit pitäisi olla julkaistuna 12 kk:n kuluttua uuden rakennustuoteasetuksen astuttua voimaan
- Tällä hetkellä standardointipyyntö viimeisimmässä luonnoksessa deadline on **25.11.2025**

# Komission standardointipyyntö perusteella laadittavat uudet standardit

1.	<b>European standard ‘Finished steel products for structural use’</b>
2.	<b>European standard ‘Finished stainless steel products for structural use’</b>
3.	<b>European standard ‘Factory-made double skin metal faced insulating sandwich panels - Part 2: Structural applications’</b>
4.	<b>European standard ‘Sustainability of construction works - Environmental product declarations - Product Category Rules for steel, iron and aluminium structural products’</b>
5.	<b>European standard ‘Sustainability of construction works - Environmental product declarations - Product Category for Factory-made double skin metal faced insulating sandwich panels’</b>

# Komission standardointipyynnön perusteella päivitettävät standardit

1.	<b>EN 15088:2005 to cover ‘Aluminium and aluminium alloys - Structural products for construction works - Performance assessment and declaration’</b>
2.	<b>EN 10340:2007 to cover ‘Steel castings for structural uses - Performance assessment and declaration’</b>
3.	<b>EN 14399-1:2015 to cover ‘High-strength structural bolting kits suitable for preloading - Part 1: Performance assessment and declaration’</b>
4.	<b>EN 15048-1:2007 to cover ‘Structural bolting kits not intended for preloading - Part 1: Performance assessment and declaration’</b>
5.	<b>EN 13479:2017 to cover ‘Welding consumables - Filler metals and fluxes for fusion welding of metallic materials - Performance assessment and declaration’</b>
6.	<b>EN 1090-1:2009+A1:2011 to cover ‘Steel structures and aluminium structures - Part 1: Performance assessment and declaration of structural members, profiled sheeting, assemblies and kits’</b>
7.	<b>Revision of EN 14509:2013 ‘Factory-made double skin metal faced insulating sandwich panels - Part 1: Self-supporting applications’</b>

# Rev EN 1090-1 “Steel structures and aluminium structures - Part 1: Performance assessment and declaration of structural members, profiled sheeting, assemblies and kits

- Soveltamisala
  - Ristikot ja muut kattokannattajat,
  - Pilarit ja palkit,
  - Portaat,
  - Kantavat kylmämuovatus ohutlevyt ja profiilit sekä
  - Tuotejärjestelmät (kits, complete/partial set and assemblies)
- Kattaa kaikki tuotteiden arviointiin asetetut vaatimukset (suoritusaste)
  - Indikaattorit ja niiden raja-arvot ja
  - Luokat ja kynnysarvot sekä
  - Viittaukset niiden arviointistandardeihin

# Rev EN 1090-1 Standardointityyntyntö => DoP:n sisältö (1)

<b>Group (BRCW)</b>	<b>Essential characteristic</b>
<b>Components (1) applicable to each element</b>	<b>elongation at maximum load</b>
	<b>elongation after fracture</b>
	<b>modulus of elasticity</b>
	<b>tensile yield strength</b>
	<b>tensile 1% proof stress</b>
	<b>tensile 2% proof stress</b>
	<b>ultimate tensile strength</b>
	<b>stress ratio</b>
	<b>impact strength</b>
	<b>bendability</b>
	<b>reduction of cross section area</b>
<b>Fire Performance (2)</b>	<b>reaction to fire - class declaration</b>
	<b>resistance to fire EI - class declaration - testing</b>
	<b>resistance to fire R - class declaration - testing</b>
	<b>resistance to fire REI - class declaration - testing</b>
	<b>external fire performance - roof - testing</b>
<b>other</b>	<b>mass of the element</b>
<b>Environmental Sustainability (7)</b>	<b>all included in annex III part B</b>

# Rev EN 1090-1 Standardointipyyntö => DoP:n sisältö (2)

## Part B. List of essential characteristics related to environmental sustainability

1. reference service life
2. climate change - total
3. climate change - fossil
4. climate change - biogenic
5. climate change - land use and land use change
6. ozone depletion
7. acidification
8. eutrophication aquatic freshwater
9. eutrophication aquatic marine
10. eutrophication terrestrial
11. photochemical ozone formation
12. depletion of abiotic resources - minerals and metals
13. depletion of abiotic resources - fossil fuels
14. water use
15. particulate matter emissions
16. ionising radiation, human health
17. ecotoxicity (freshwater)
18. human toxicity, cancer effects
19. human toxicity, non- cancer effects
20. land use related impacts / soil quality
21. use of renewable primary energy excluding renewable
22. primary energy resources used as raw materials
23. use of renewable primary energy resources used as raw materials
24. total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)
25. use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials
26. use of non-renewable primary energy resources used as raw materials
27. total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
28. use of secondary material
29. use of renewable secondary fuels
30. use of non-renewable secondary fuels
31. net use of fresh water
32. hazardous waste disposed
33. non-hazardous waste disposed
34. radioactive waste disposed
35. components for re-use
36. materials for recycling
37. materials for energy recovery
38. exported energy
39. biogenic carbon content in product
40. biogenic carbon content in accompanying packaging

# Rev EN 1090-1 DoP:iin liitettävät dokumentit

Documents	Comments
set of drawings	including detailing as regards fixings, plans, drawings, tolerances and stress-strain curves.
calculations when forming a basis for the declaration	including basis for the calculation of structural behaviour, resistance to fire R, EI, and REI when calculated or tabulated values are used. including traffic & fatigue calculations when relevant. including performance under seismic conditions.
reference to the methods used for the structural calculation	Eurocode 3
alloy and alloy temper/condition	aluminium
corrosivity	information about corrosivity and protecting measures applied to the product including coatings.
exposure scenarios for durability when forming a basis for the declaration	





**Kiitoksia**