

MANORGA

EPSIRACK



Assembly instructions



Epsirack must be assembled by competent staff in strict compliance with our assembly instructions and safety manual as well as the rules of good practice.

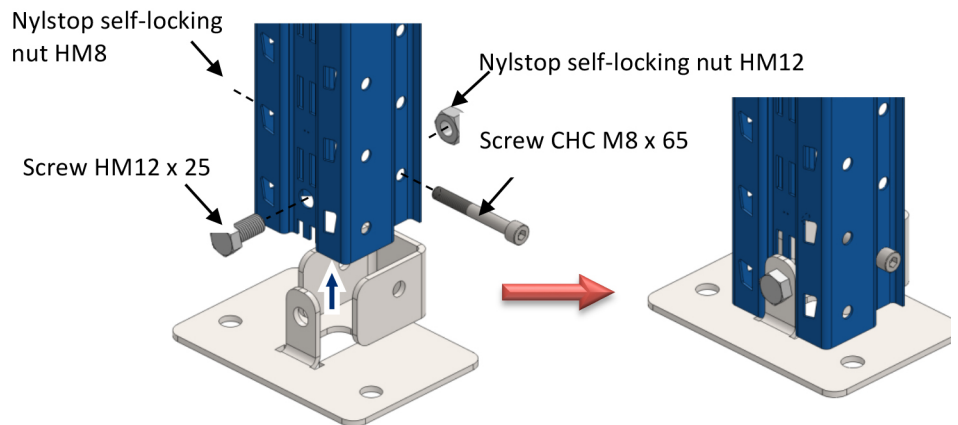
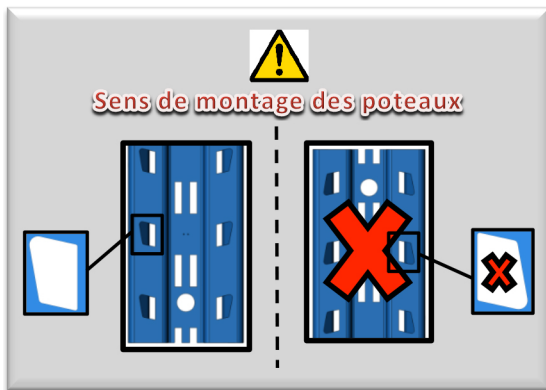
1. Tools for assembly/documents

- Tape measure/laser measuring device
- Chalk line
- Plumb line/inclinometer
- Spirit level
- Drill
- Bit Ø12
- Plastic or rubber mallet
- Open-ended spanners 8/12
- Socket wrench/tube wrench 12
- Allen key Ø8

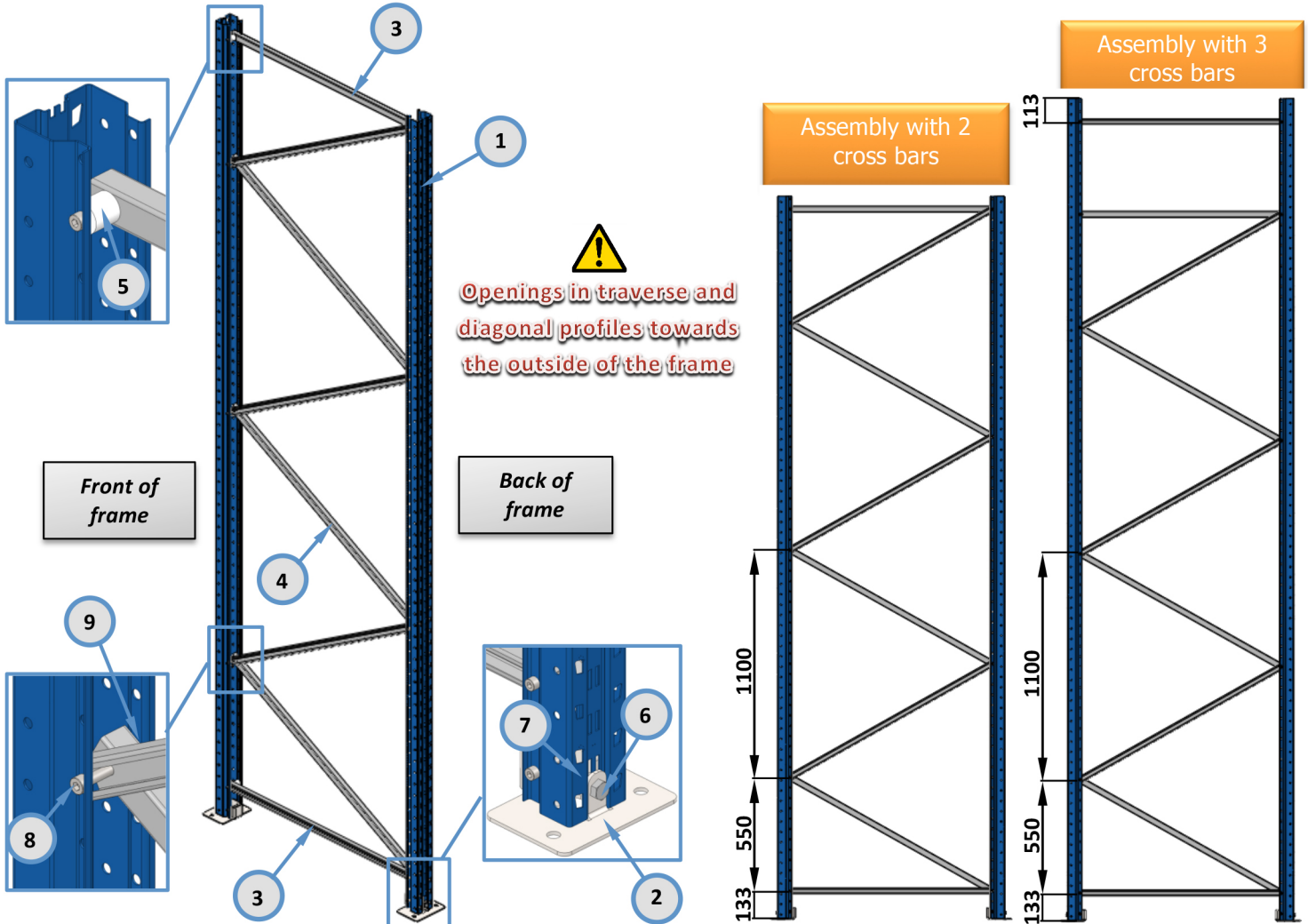


- EPSIRACK® - EPSIRACK XL® safety manual
- EN 15620
- EN 15629
- EN 15635


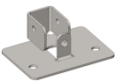







2. Assembling the floorplates





3. Assembling the frame



Quantity of components per frame

 T 150 T 175 T 200		 Footplate		 Cross bar		 Diagonal brace		 Spacer		 Screw HM12x25		 Nylstop self- locking nut HM12		 Screw CHC M8x65		 Nylstop self- locking nut HM8	
		Ht.	1	2	3	4	5	6	7	8	9						
2500	2	2	2	4	2	2	2	9	9								
3000	2	2	2	5	2	2	2	10	10								
3500	2	2	2	6	2	2	2	11	11								
4000	2	2	3	6	4	2	2	13	13								
4500	2	2	3	7	4	2	2	14	14								
5000	2	2	3	8	4	2	2	15	15								
5500	2	2	3	9	4	2	2	16	16								
6000	2	2	3	10	4	2	2	17	17								

Length of cross bars and diagonal braces according to the depth of the frame

Depth.	 Cross bar		 Diagonal brace	
	3	4	3	4
750	667	873,5		
800	717	912		
900	817	992		
1000	917	1075		
1100	1017	1161		
1200	1117	1249		

4. Floor quality and shimming

Make sure the floor is level, of adequate quality and can support the load of the shelving as well as materials handling equipment.

The flatness of the installation floor must be compliant with the shelving use class according to standard EN 15620.

The strength and thickness (min. 130 mm) of the concrete slab must be verified to ensure the frames will be adequately anchored.

➤ **Standard for class 400 :**

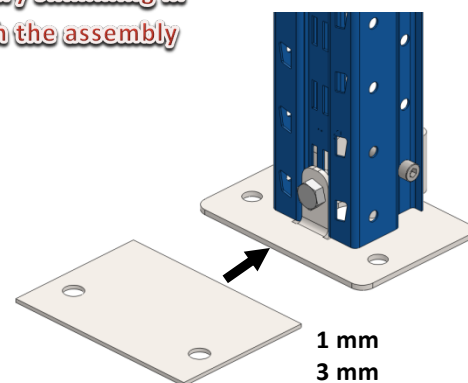
For class 400, you should refer to standard EN 15620.

➤ **Standard for class 300 A and 300 B :**

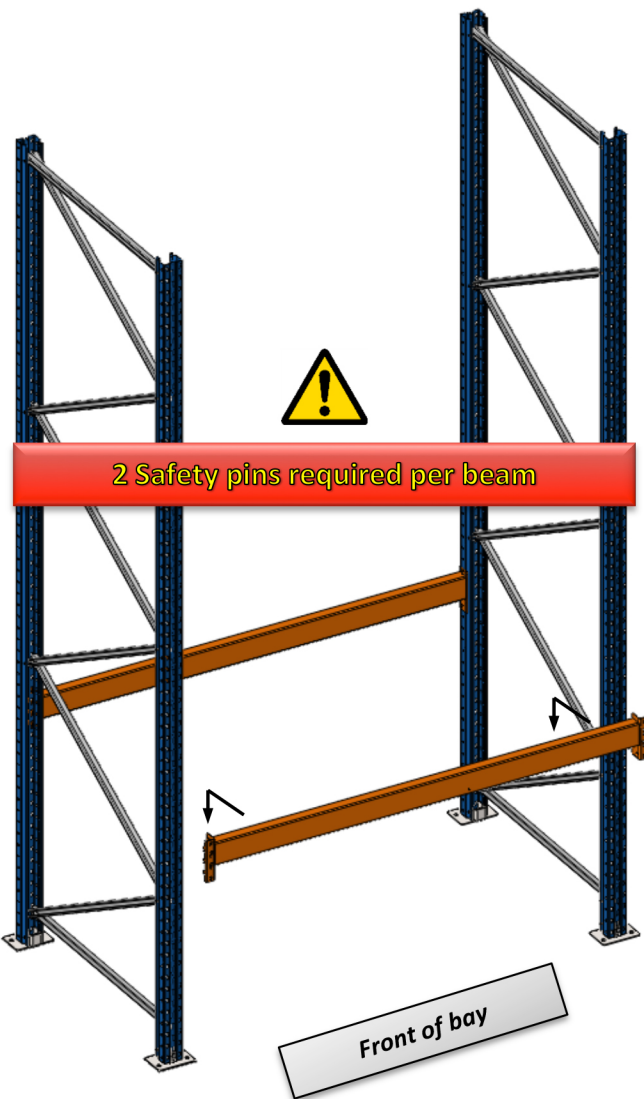
For classes 300 A and 300 B, you should refer to standard EN 15620.



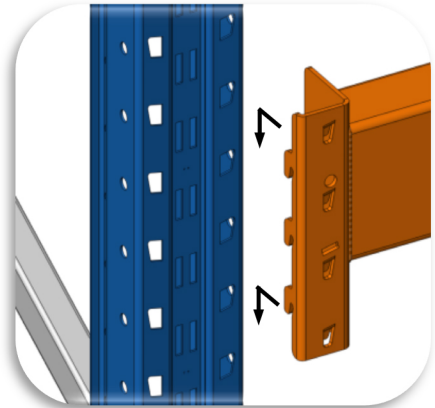
Use the necessary shimming in accordance with the assembly tolerances



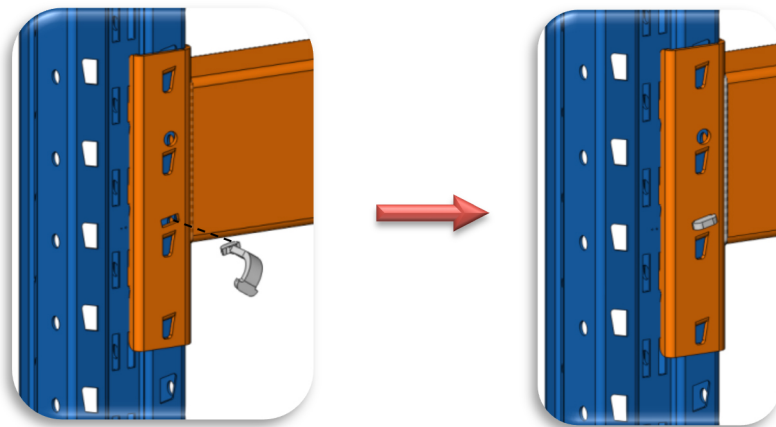
5. Assembling the beams



Stage no. 1: Put beam in place



Stage no. 2: Insert pin



6. Fixing the frame to the floor

The frame must be fixed to the floor to ensure stability.

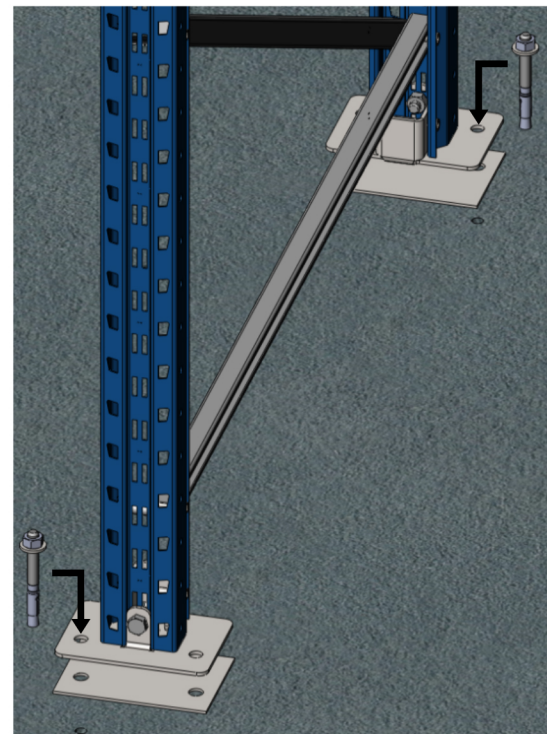
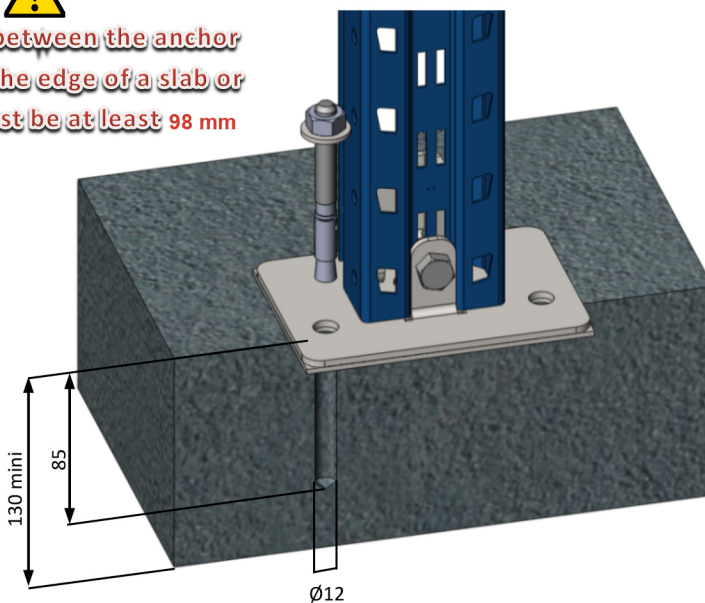
Use anchor bolts M12 x 110 for concrete floors (class C20/25 min.).

The frame is fixed to the floor using one anchor bolt per footplate, positioned diagonally.

For some countries (e.g.: NL) and certain uses, 2 anchor bolts are required per footplate.



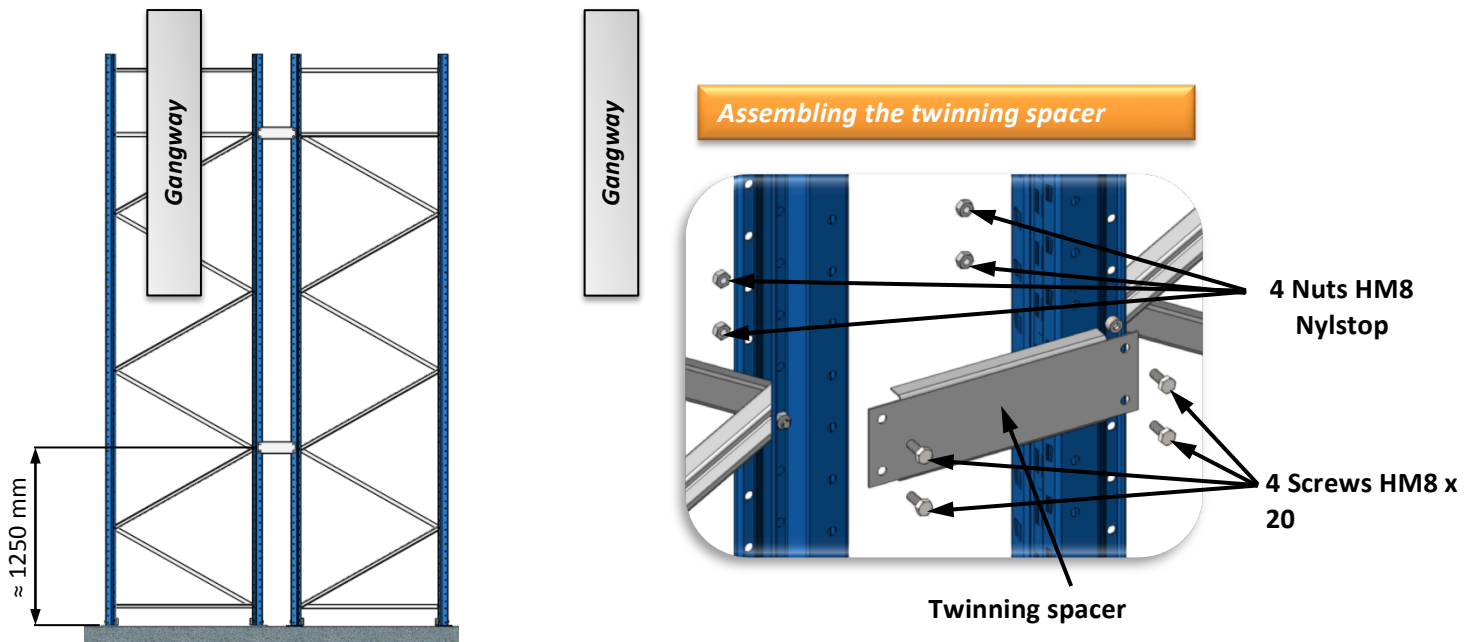
The distance between the anchor bolt axis and the edge of a slab or sawing line must be at least 98 mm



7. Assembling twinning spacers

If installing shelving back-to-back, 2 twinning spacers must be fitted per pair of frames, distributed along the height as below:
The twinning spacers must be positioned in compliance with standard EN 15635.

- Fit the first spacer at approx. 1250 mm from the floor at the first intersection of diagonal braces the back of the frame.
- Fit the second spacer at the last intersection of diagonal braces towards the top of the frame.



8. Frame protection

Please refer to the safety manual provided with the shelving.

9. Load plate

Please refer to the safety manual and load tables provided with the shelving.

10. User protection

Please refer to the safety manual provided with the shelving.

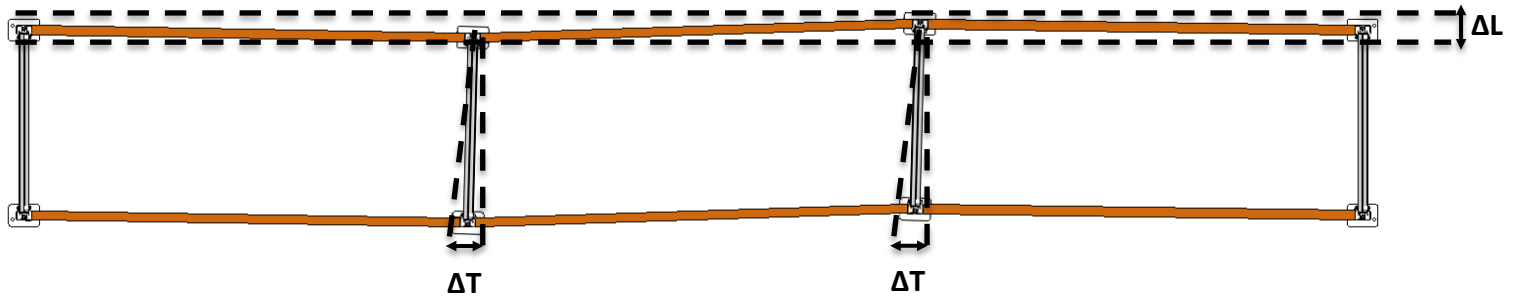
11. Assembly tolerances

To ensure the stability of the shelving, assembly must be performed by competent and qualified staff in compliance with the rules of best practice.

You must comply with standard EN 15620 with respect to the assembly tolerances according to the shelving use class.

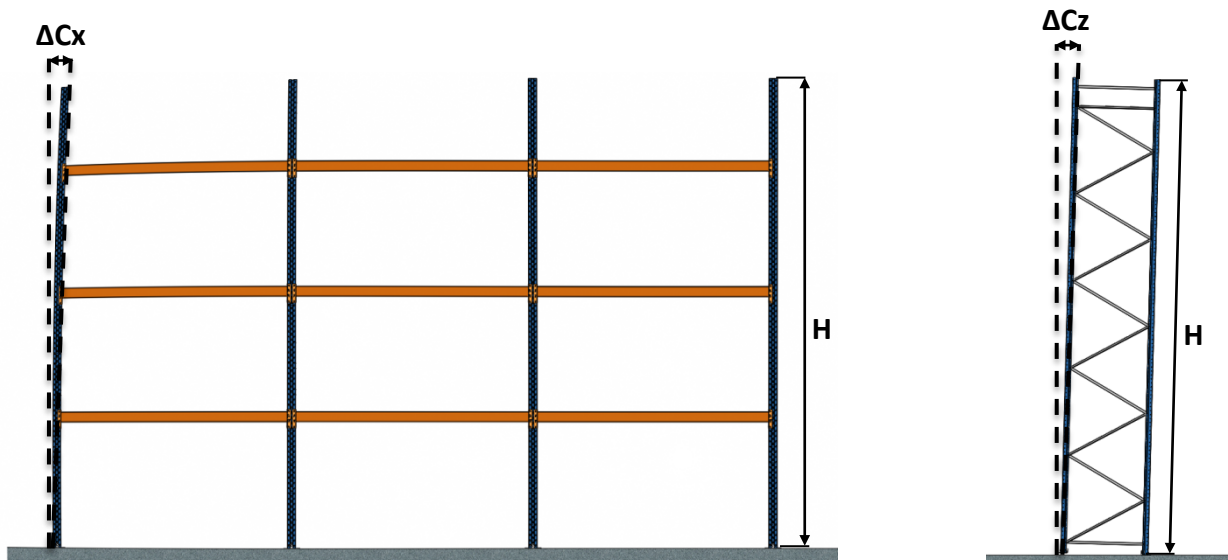
Reminder: The floor must be checked prior to shelving installation. (See section 3. Floor quality and shimming)

➤ *Horizontal alignment tolerances:*



	Classes 300 A and B	Class 400
ΔL	10 mm	15 mm
ΔT	10 mm	15 mm

➤ *Vertical alignment tolerances:*



	Classes 300 A and B	Class 400
ΔCx	$\pm H/500$	$\pm H/350$
ΔCz	$\pm H/500$ (avec butées) $\pm H/750$ (sans butées)	$\pm H/350$

Besides the tolerances indicated above, it is your responsibility to comply with all the specific tolerances given in standard EN 15620.