



Initial joint opening (mm)	Movement * min. - max. (mm)	Joint cover	Official EI classification
150	75 → 225	yes	120 min
150	75 → 225	yes	180 min (H) / 240 min (V)
200	100 → 300	yes	180 min
400	200 → 600	optional	60 min
400	200 → 600	yes	120 min
560	280 → 840	yes	240 min

\* Movements : all tests have been performed with a +50% movement.

Reference	Initial width - maxi	Official classification
• N 150 EI 120 with joint cover	150 - 225	EI 120 - H - M 50 - B - W 150 to 225
• N 150 EI 180 with joint cover	150 - 225	EI 180 - H - M 50 - B - W 150 to 225
• N 150 EI 240 with joint cover	150 - 225	EI 240 - V - M 50 - B - W 150 to 225
• N 200 EI 180 with joint cover	200 - 300	EI 180 - H - M 50 - B - W 200 to 300
• N 400 EI 60 without joint cover	400 - 600	EI 60 - H - M 50 - B - W 400 to 600
• N 400 EI 120 with joint cover	400 - 600	EI 120 - H - M 50 - B - W 400 to 600
• N 560 EI 240 with joint cover	560 - 840	EI 240 - H - M 50 - B - W 560 to 840

### Glossary, results and comments

#### Testing conditions :

- Test performed between 2 horizontal concrete slabs (**H** or **V**), exposed to fire from the underside, connection between 2 lengths done by overlapping the different layers (**B**).

#### Results and comments :

- **EI** : Fireproofing and thermal insulation according to 13501-2 European standard.
- **H** : Horizontal construction support.
- **V** : Vertical construction support.
- **M** : Movement. Tests were performed with a + 50 % movement.
- **B** : Factory and on-site manufactured connections.
- **W** : Tested openings.

### Comments

Different EI ratings were obtained for the same initial joint opening : for example, **EI 120** and **EI 180** for an initial joint opening of **150 mm** ; **EI 60** and **EI 120** for an initial joint opening of **400 mm**. The dissimilar composition of the blanket layers and the use (or not) of a protective cover joint to close the system are the consequences of these different ratings.

Obviously, a EI 120 minutes rating corresponds to a more elaborate technical solution and a higher cost compared to a EI 60 minutes rating for a similar initial joint width and movement. Therefore, it is recommended to select carefully the "VEDAFEU N" blanket which will best suit the jobsite and which will meet the expected specifications required by the specifier. All tested "VEDAFEU N" blankets are standard factory blankets with length ends prepared in factory and assembled on site.

**All tests were carried out according to the latest available European standards (EN 1366-4 + A1).**

### Main advantages of VEDAFEU N blankets

- VEDAFEU N blankets composition and installation are fully patented.
- Very high accommodation of movement +/- 50%.
- Easy to install.
- Not hazardous for human health : do not contain any asbestos nor classified ceramic fibres. VEDAFEU N blankets are composed by > 6 µm non penetrating into the lungs.
- Standard range for initial joint widths from 100 to 560 mm. Other widths upon request.