CU4+CFTH

- Fire dampers E240S
- Rectangular
- EI240S

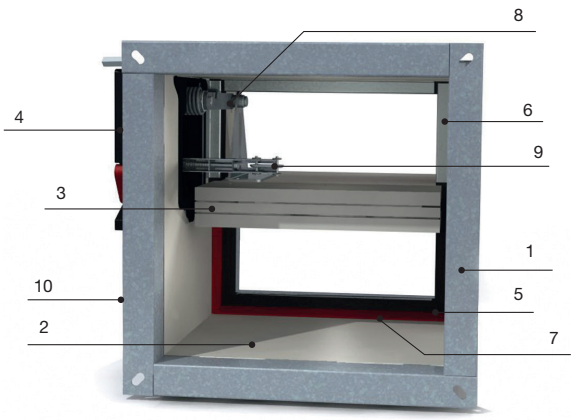
Rectangular fire dampers E240S type CU4+CFTH

Rectangular fire dampers with a fire resistance of 4 hours. When the temperature in the damper rises above 72 °C the fusible link will break and the damper will close. When closed, the material expand around the fire blade will swell and assure a fire and air-tight seal against hot air and smoke. The tunnel and blade are made out of fire resistant material. The **CU4 + CFTH** fire dampers have a manual operating mechanism with indication of the blade position. Optionally, an end or begin of range switch **FDC CFTH** can be added to the mechanism. The operating mechanism can be removed easily, for inspection purposes or for replacing the fusible link.

Application

- Fire compartimentation
- To close and seal off ventilation ducts in case of fire
- For air temperatures of -10°C up to temperature of fusible link
- For air with RV 0-96%
- Range from 200 to 1200 mm in width and 200 to 800 mm in height

Construction



Composition

- Light-weight fireproof housing
- Fireproof blade
- Seal around the blade
- Manual control mechanism CFTH with fusible link 72 °C
- Standard equipped with duct connection flages of 30mm (other flange types available upon request)

- 1. Connection flange
- 2. Casing out of refractory material
- 3. Damper blade
- 4. Operating mechanism
- 5. Sealing cold smoke
- 6. Blade bumper
- 7. Intumescent strip
- 8. Transmission with locking (open/closed)
- 9. Fusible link 72°C
- 10. Product identification

Mounting

- To be inserted in fire resistant walls or floors and to be fixed with fireproof mortar
- To be connected with rectangular air ducts by flanges of 30mm

Certification

- Certified according **EN 1366-2, EN 13501-3, EN 1751**
- CE-marked

Accessories

- Fire resistant plaster
- Fire resistant silicone gel **BMS**
- Fire resistant PU-foam **BAP**
- End- or begin of range switch **FCU/DCU** (available as KIT or premounted)

Text for tender

- The fire dampers shall be of the rectangular type with a fire resistance of 4 hours, certified according to EN 13501-3 EN 1366-2 . They will consist of a fireproof tunnel and valve. The control mechanism will be manually operated and shall have a blade position indicator and fusible link of 72 °C
- **SIG** type **CU4 + CFTH**

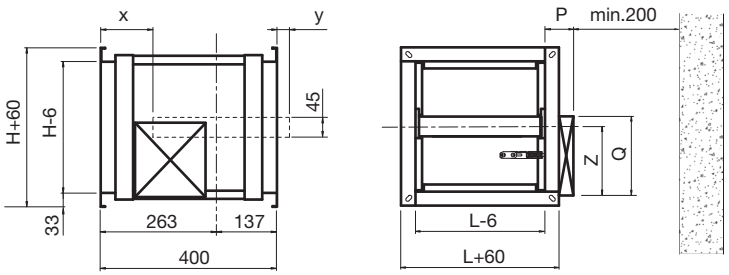
Order example

- **CU4 + CFTH, 400, 200**

Explanation
CU2 = Rectangular fire damper Rf2h
CFTH = Mechanism
400 = Length damper
200 = Height damper

Quick selection

Hn\Bn [mm]		200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
200	ζ [-]	8,460	7,330	6,670	6,250	5,950	5,730	5,560	5,420	5,310	5,220	5,140	5,080	5,020	4,970	4,930	4,890	4,860	4,830	4,800	4,770	4,750
	Sn (m²)	**0,013**	**0,017**	**0,022**	**0,026**	**0,031**	**0,035**	**0,040**	**0,044**	**0,048**	**0,053**	**0,057**	**0,062**	**0,066**	**0,071**	**0,075**	**0,080**	**0,084**	**0,088**	**0,093**	**0,097**	**0,102**
250	ζ [-]	4,440	3,680	3,240	2,960	2,770	2,630	2,520	2,440	2,370	2,310	2,260	2,220	2,190	2,160	2,130	2,110	2,090	2,070	2,050	2,040	2,020
	Sn (m²)	**0,020**	**0,027**	**0,034**	**0,041**	**0,048**	**0,055**	**0,062**	**0,069**	**0,076**	**0,083**	**0,090**	**0,096**	**0,103**	**0,110**	**0,117**	**0,124**	**0,131**	**0,138**	**0,145**	**0,152**	**0,159**
300	ζ [-]	2,920	2,320	1,990	1,790	1,640	1,540	1,460	1,400	1,350	1,310	1,270	1,250	1,220	1,200	1,180	1,160	1,150	1,140	1,120	1,110	1,100
	Sn (m²)	**0,027**	**0,037**	**0,046**	**0,056**	**0,065**	**0,074**	**0,084**	**0,093**	**0,103**	**0,112**	**0,122**	**0,131**	**0,141**	**0,150**	**0,160**	**0,169**	**0,178**	**0,188**	**0,197**	**0,207**	**0,216**
350	ζ [-]	2,160	1,670	1,400	1,230	1,110	1,030	0,970	0,920	0,880	0,850	0,820	0,800	0,780	0,770	0,750	0,740	0,730	0,720	0,710	0,700	0,690
	Sn (m²)	**0,034**	**0,046**	**0,058**	**0,070**	**0,082**	**0,094**	**0,106**	**0,118**	**0,130**	**0,142**	**0,154**	**0,166**	**0,178**	**0,190**	**0,202**	**0,214**	**0,226**	**0,238**	**0,250**	**0,261**	**0,273**
400	ζ [-]	1,720	1,290	1,060	0,920	0,820	0,750	0,700	0,660	0,630	0,600	0,580	0,560	0,550	0,530	0,520	0,510	0,500	0,500	0,490	0,480	0,480
	Sn (m²)	**0,042**	**0,056**	**0,071**	**0,085**	**0,099**	**0,114**	**0,128**	**0,143**	**0,157**	**0,172**	**0,186**	**0,201**	**0,215**	**0,229**	**0,244**	**0,258**	**0,273**	**0,287**	**0,302**	**0,316**	**0,331**
450	ζ [-]	1,440	1,060	0,850	0,730	0,640	0,580	0,540	0,500	0,480	0,450	0,440	0,420	0,410	0,400	0,390	0,380	0,370	0,360	0,360	0,350	0,350
	Sn (m²)	**0,049**	**0,066**	**0,083**	**0,100**	**0,117**	**0,134**	**0,151**	**0,167**	**0,184**	**0,201**	**0,218**	**0,235**	**0,252**	**0,269**	**0,286**	**0,303**	**0,320**	**0,337**	**0,354**	**0,371**	**0,388**
500	ζ [-]	1,250	0,900	0,710	0,600	0,520	0,470	0,430	0,400	0,380	0,360	0,340	0,330	0,320	0,310	0,300	0,290	0,290	0,280	0,270	0,270	0,270
	Sn (m²)	**0,055**	**0,074**	**0,092**	**0,111**	**0,130**	**0,149**	**0,168**	**0,187**	**0,206**	**0,225**	**0,244**	**0,263**	**0,282**	**0,301**	**0,320**	**0,339**	**0,358**	**0,377**	**0,396**	**0,415**	**0,434**
550	ζ [-]	1,130	0,800	0,630	0,520	0,460	0,410	0,370	0,340	0,320	0,300	0,290	0,280	0,270	0,260	0,250	0,240	0,240	0,230	0,230	0,220	0,220
	Sn (m²)	**0,062**	**0,083**	**0,105**	**0,126**	**0,148**	**0,169**	**0,190**	**0,212**	**0,233**	**0,255**	**0,276**	**0,298**	**0,319**	**0,341**	**0,362**	**0,384**	**0,405**	**0,426**	**0,448**	**0,469**	**0,491**
600	ζ [-]	1,020	0,710	0,550	0,450	0,390	0,350	0,310	0,290	0,270	0,250	0,240	0,230	0,220	0,210	0,210	0,200	0,190	0,190	0,190	0,180	0,180
	Sn (m²)	**0,069**	**0,093**	**0,117**	**0,141**	**0,165**	**0,189**	**0,213**	**0,237**	**0,261**	**0,285**	**0,308**	**0,332**	**0,356**	**0,380**	**0,404**	**0,428**	**0,452**	**0,476**	**0,500**	**0,524**	**0,548**
650	ζ [-]	0,940	0,640	0,490	0,400	0,340	0,300	0,270	0,250	0,230	0,220	0,200	0,190	0,190	0,180	0,170	0,170	0,160	0,160	0,150	0,150	0,150
	Sn (m²)	**0,076**	**0,103**	**0,129**	**0,156**	**0,182**	**0,208**	**0,235**	**0,261**	**0,288**	**0,314**	**0,341**	**0,367**	**0,394**	**0,420**	**0,446**	**0,473**	**0,499**	**0,526**	**0,552**	**0,579**	**0,605**
700	ζ [-]	0,870	0,590	0,440	0,360	0,300	0,270	0,240	0,220	0,200	0,190	0,180	0,170	0,160	0,150	0,150	0,140	0,140	0,130	0,130	0,130	0,130
	Sn (m²)	**0,083**	**0,112**	**0,141**	**0,170**	**0,199**	**0,228**	**0,257**	**0,286**	**0,315**	**0,344**	**0,373**	**0,402**	**0,431**	**0,460**	**0,489**	**0,518**	**0,547**	**0,576**	**0,604**	**0,633**	**0,662**
750	ζ [-]	0,810	0,540	0,410	0,330	0,270	0,240	0,210	0,190	0,180	0,160	0,150	0,150	0,140	0,130	0,130	0,120	0,120	0,120	0,110	0,110	0,110
	Sn (m²)	**0,091**	**0,122**	**0,153**	**0,185**	**0,216**	**0,248**	**0,279**	**0,311**	**0,342**	**0,374**	**0,405**	**0,437**	**0,468**	**0,499**	**0,531**	**0,562**	**0,594**	**0,625**	**0,657**	**0,688**	**0,720**
800	ζ [-]	0,770	0,510	0,380	0,300	0,250	0,220	0,190	0,170	0,160	0,150	0,140	0,130	0,120	0,120	0,110	0,110	0,100	0,100	0,100	0,100	0,090
	Sn (m²)	**0,098**	**0,132**	**0,166**	**0,200**	**0,234**	**0,268**	**0,301**	**0,335**	**0,369**	**0,403**	**0,437**	**0,471**	**0,505**	**0,539**	**0,573**	**0,607**	**0,641**	**0,675**	**0,709**	**0,743**	**0,777**



Dimensions						
	P	Q	Z (H	Z (H>=300)	x	y
CU4 + CFTH	65	180	60	155	=(H/2)-274	=(H/2)-148