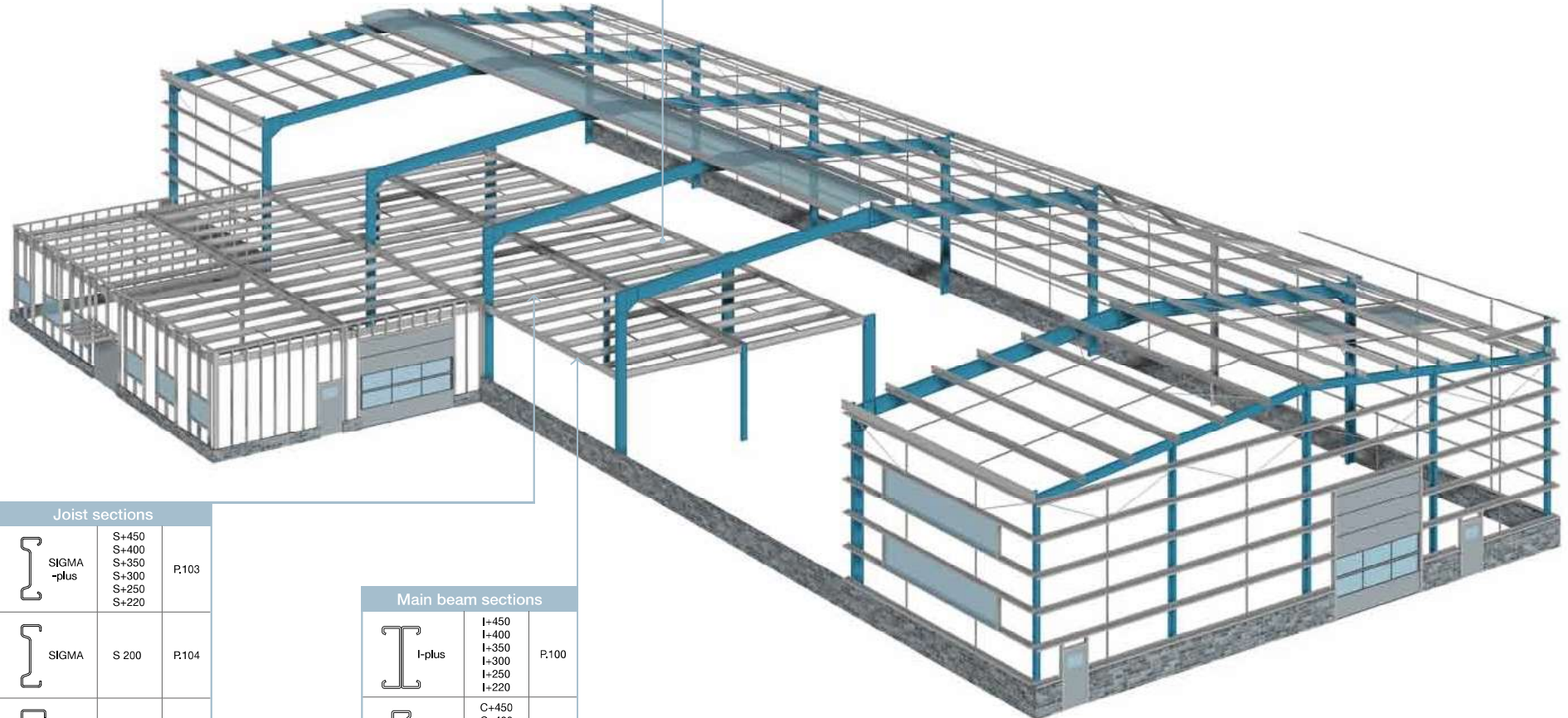






### FLOOR FRAMES




- ACM system → P. 56 - 57
- ACE system → P. 58 - 59
- MIXED system → P. 60 - 61



#### Joist sections

	S+450 S+400 S+350 S+300 S+250 S+220	P.103
	S 200	P.104
	C 170 C 150	P.106
	SE 200 SE 250 SE 330	P.104

#### Main beam sections

	I+450 I+400 I+350 I+300 I+250 I+220	P.100
	C+450 C+400 C+350 C+300 C+250 C+220	P.101
	C 200	P.106





### READY-TO-ASSEMBLE BUILDING COMPONENTS FOR FLOORING

A floor frame can be realised in an easy and competitive way by using SADEF-building profiles:

- Made by a unique production process
- Main features:
  - No cleats required
  - Bolting reduced by 50 %
  - Fast and cost effective assembly
  - Service holes integrated on request



AutoConnectMiddle STANDARD POSSIBILITIES									
MAIN BEAM			JOIST				ACM		
Section	A (mm)	B (mm)	Ø (mm)	Section	Notch	V (mm)	W (mm)	Type	P (mm)
C+450xt <sub>1</sub>	75	300	18	S+450xt <sub>2</sub>	Double	40	120	ACM200	225
				S+400xt <sub>2</sub>	Single			ACM200	200
				S+350xt <sub>2</sub>				ACM200	175
				S+300xt <sub>2</sub>				ACM150	150
				S+250xt <sub>2</sub>				ACM100	125
C+400xt <sub>1</sub>	75	250	18	S+400xt <sub>2</sub>	Double	40	110	ACM200	200
				S+350xt <sub>2</sub>	Single			ACM200	175
				S+300xt <sub>2</sub>				ACM150	150
				S+250xt <sub>2</sub>				ACM100	125
				S+350xt <sub>2</sub>				Double	ACM200
C+350xt <sub>1</sub>	75	200	18	S+300xt <sub>2</sub>	Single	35	100	ACM150	150
				S+250xt <sub>2</sub>				ACM100	125
				S+220xt <sub>2</sub>				ACM100	110
				S200xt <sub>2</sub>				ACM100	100
				C170xt <sub>2</sub>	ACM100			100	
C+300xt <sub>1</sub>	75	150	18	S+300xt <sub>2</sub>	Double	30*	90	ACM150	150
				S+250xt <sub>2</sub>	Single			ACM100	125
				S+220xt <sub>2</sub>				ACM100	110
				S200xt <sub>2</sub>				ACM100	100
				C170xt <sub>2</sub>				ACM100	100
C+250xt <sub>1</sub>	75	100	18	S+250xt <sub>2</sub>	Double	30*	80	ACM100	125
				S+220xt <sub>2</sub>	Single			ACM100	110
				S200xt <sub>2</sub>				ACM100	100
				C170xt <sub>2</sub>				ACM100	100
				S+220xt <sub>2</sub>				Double	30
S200xt <sub>2</sub>	Single	ACM100	100						
C170xt <sub>2</sub>	Single	ACM100	100						
C200xt <sub>1</sub>	55	90	14	S200xt <sub>2</sub>	Double	30	80	ACM100	100
				C170xt <sub>2</sub>	Single			ACM100	100
				C170xt <sub>2</sub>	Single			ACM100	100

\* For t<sub>1</sub> = 5mm; V = 35mm

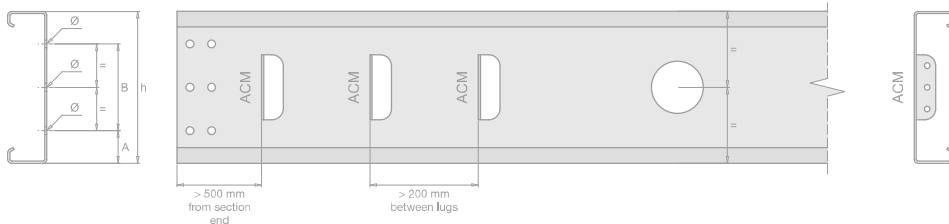
PREPIERCING POSSIBILITIES

- Big size holes can be prepierced in webs of beams and joists. See table:

Large perforations	
Section depth	Hole size
h ≥ 350	Ø150
250 ≤ h ≤ 300	Ø120
h ≤ 220	100x70

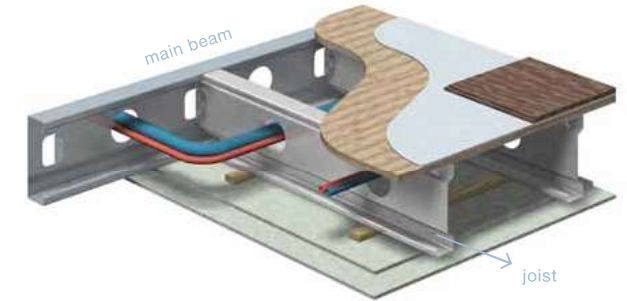
- Recommended perforations

- Minimum distance between the lugs and minimum distance between lug and the end of the profile.



ACM - AutoConnectMiddle-SYSTEM

Floor frame with connections for SIGMA-joist integrated with main CEE-beam.



MAIN BEAM	JOIST	
	Smaller than main beam	Same depth as main beam
	<p>ACM 200</p>	
	<p>ACM 150</p>	
	<p>ACM 100</p>	

Sections with AutoConnectEnd (ACE):

- 1,5 mm <  $t_2$  < 4 mm
- AutoConnectEnd (and AutoNotch) to be identical at both ends.
- Perforation of big holes in the web of the main beam and joist: See table at the bottom of p.56
- Minimum length: 800 mm.
- F = 30 mm.

ACE + AutoNotch (AN)						
MAIN BEAM	JOIST					
Section	Section	A (mm)	B (mm)	V (mm)	W1 (mm)	Ø (mm)
C+450xt <sub>1</sub>	C+350xt <sub>2</sub>	75	200	40	120	18
	C+300xt <sub>2</sub>		150			
	C+250xt <sub>2</sub>		100			
C+400xt <sub>1</sub>	C+350xt <sub>2</sub>	75	200	40	110	18
	C+300xt <sub>2</sub>		150			
	C+250xt <sub>2</sub>		100			
C+350xt <sub>1</sub>	C+300xt <sub>2</sub>	75	150	35	100	18
	C+250xt <sub>2</sub>		100			
C+300xt <sub>1</sub>	C+250xt <sub>2</sub>	75	100	30*	90	18
	C+220xt <sub>2</sub>		110			14
	C 200xt <sub>2</sub>		90			
	C 170xt <sub>2</sub>		60			
C+250xt <sub>1</sub>	C+220xt <sub>2</sub>	55	110	30*	80	14
	C 200xt <sub>2</sub>		90			
	C 170xt <sub>2</sub>		60			
C+220xt <sub>1</sub>	C 200xt <sub>2</sub>	55	90	30	80	14
	C 170xt <sub>2</sub>		60			
	C 150xt <sub>2</sub>		40			
C 200xt <sub>1</sub>	C 170xt <sub>2</sub>	55	60	30	80	14
	C 150xt <sub>2</sub>		40			

\* only for beams where  $t_1 \leq 4$ mm



AutoConnectEnd (ACE)						
MAIN BEAM	JOIST					
Section	Section	A (mm)	B (mm)	V (mm)	W2 (mm)	Ø (mm)
≥ C+350xt <sub>1</sub>	C+350xt <sub>2</sub>	50	250	5	15+t <sub>2</sub>	18
≥ C+300xt <sub>1</sub>	C+300xt <sub>2</sub>	50	200	5	15+t <sub>2</sub>	18
≥ C+250xt <sub>1</sub>	C+250xt <sub>2</sub>	50	150	5	15+t <sub>2</sub>	18
≥ C+220xt <sub>1</sub>	C+220xt <sub>2</sub>	50	120	5	15+t <sub>2</sub>	14
≥ C+200xt <sub>1</sub>	C+200xt <sub>2</sub>	50	100	5	15+t <sub>2</sub>	14
≥ C+150xt <sub>1</sub>	C+150xt <sub>2</sub>	45	60	5	15+t <sub>2</sub>	14
≥ C200xt <sub>1</sub>	C 200xt <sub>2</sub>	50	100	5	15+t <sub>2</sub>	14
≥ C 170xt <sub>1</sub>	C 170xt <sub>2</sub>	50	70	5	15+t <sub>2</sub>	14
≥ C 150xt <sub>1</sub>	C 150xt <sub>2</sub>	50	50	5	15+t <sub>2</sub>	14
≥ C 100xt <sub>1</sub>	C 100xt <sub>2</sub>	25	50	5	15+t <sub>2</sub>	14

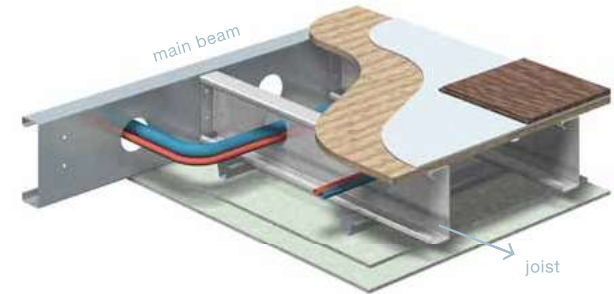


For additional information, prepiercing possibilities and minimum production batches: please contact SADEF.

ACE - AutoConnectEnd-SYSTEM

Floor system with integrated connection piece in the CEE-plus joists.

Both main beams and joists are CEE-profiles.



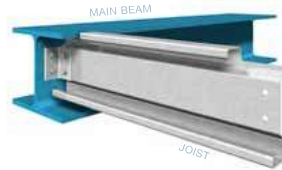
MAIN BEAM	JOIST
AutoConnectEnd (ACE) + AutoNotch (AN)	
<p>AutoNotch (Notch with length W1, cut-out in top flange only.)</p> <p>* Possibility of an additional hole for section depth &gt; 200 mm.</p> <p>** Optional : extra holes for beam to column connection.</p>	
AutoConnectEnd (ACE)	
<p>* Additional hole for section depth &gt; 200 mm.</p>	

MAIN BEAM Section	JOIST							AutoNotch	
	S/SE 200	I/S+220	I/S+250	I/S+300	I/S+350	I/S+400	I/S+450	V (mm)	W (mm)
HEA/HEB 200	✓	-	-	-	-	-	-	35	120
HEA/HEB 220	✓	✓	-	-	-	-	-	35	120
HEA/HEB 240	✓	✓	-	-	-	-	-	35	125
HEA/HEB 260 → 280	✓	✓	✓	-	-	-	-	35	145
HEA/HEB 300	✓	✓	✓	✓	-	-	-	35	145
HEA/HEB 320 → 340	-	-	✓	✓	-	-	-	50	145
HEA/HEB 360	-	-	✓	✓	✓	-	-	50	145
HEA/HEB 400	-	-	✓	✓	✓	✓	-	50	145
HEA/HEB 450 → 700	-	-	✓	✓	✓	✓	✓	50	145
HEA/HEB 800 → 1000	-	-	✓	✓	✓	✓	✓	50	145
IPE 200	✓	-	-	-	-	-	-	35	55
IPE 220	✓	✓	-	-	-	-	-	35	55
IPE 240	✓	✓	-	-	-	-	-	35	65
IPE 270	✓	✓	✓	-	-	-	-	35	65
IPE 300 → 330	✓	✓	✓	✓	-	-	-	35	80
IPE 360	✓	✓	✓	✓	✓	-	-	35	90
IPE 400	✓	✓	✓	✓	✓	✓	-	35	90
IPE 450	✓	✓	✓	✓	✓	✓	✓	35	90
IPE 500 → 600	✓	✓	✓	✓	✓	✓	✓	35	105
UPN 200	✓	-	-	-	-	-	-	25	85
UPN 220 → 240	✓	✓	-	-	-	-	-	25	85
UPN 260	✓	✓	✓	-	-	-	-	25	85
UPN 280	✓	✓	✓	-	-	-	-	30	100
UPN 300 → 320	✓	✓	✓	✓	-	-	-	30	100
UPN 350 → 360	✓	✓	✓	✓	✓	-	-	30	100
UPN 400	✓	✓	✓	✓	✓	✓	-	35	100

RECOMMENDED PERFORATION JOIST						
Section height h (mm)	A1 (mm)	B1 (mm)	Ø1 (mm)	A2 (mm)	B2 (mm)	Ø2 (mm)
450	75	300	18	125	200	18
400	75	250	18	125	150	18
350	75	200	18	100	150	18
300	75	150	18	115	100	18
250	75	100	18	100	100	18
220	55	110	14	75	70	14
200				75	50	14

Big size holes can be prepericed in webs of main beams and joists: please turn to p. 56.

SIGMA-Joist

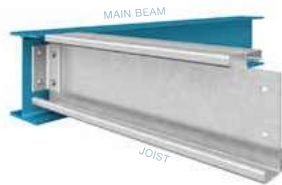


Main beam deeper than joist



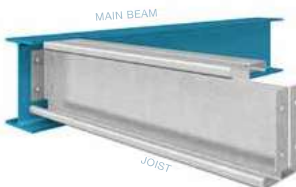
Main beam and joist have about the same depth

CEE-plus / I-plus - joist



Main beam deeper than joist

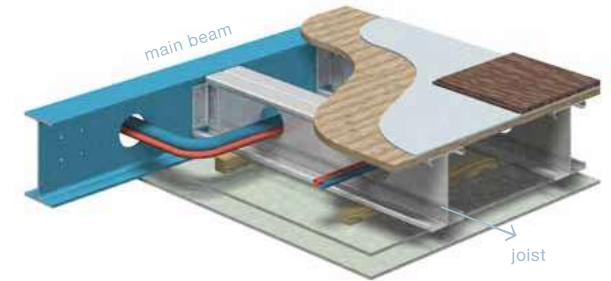
CEE-plus / I-plus - joist with AutoConnectEnd (ACE)



Main beam deeper than ACE-joist

MIXED-SYSTEM

Floor framing consisting of hot rolled main beams and cold rolled side beams.

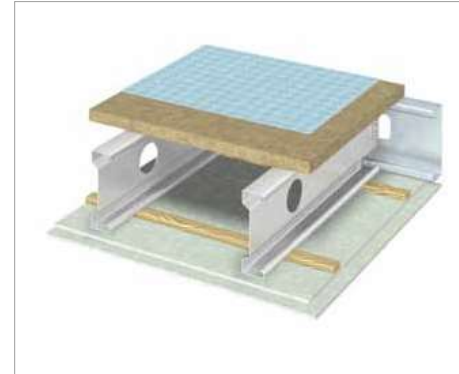


MAIN BEAM	JOIST	
	Hot rolled	Smaller than main beam
UPN IPE HEA HEB	<p>Single notch V*W</p>	<p>Double notches V*W</p>
UPN IPE HEA HEB	<p>Single notch V*W</p>	<p>Single notch V*W</p>
UPN IPE HEA HEB	<p>Single notch V*W</p>	<p>Single notch V*W</p>

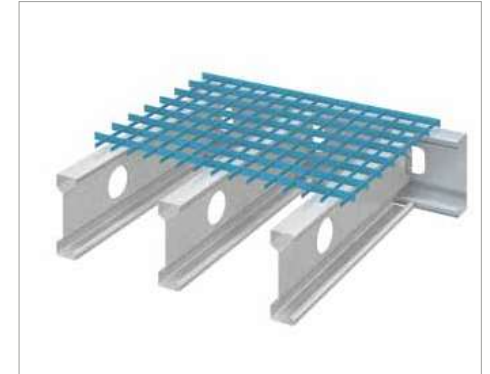
AutoNotches to be identical on both profile ends.  
\* Additional hole for section depth > 200 mm.



FLOOR MATERIALS FOR INDUSTRIAL BUILDINGS

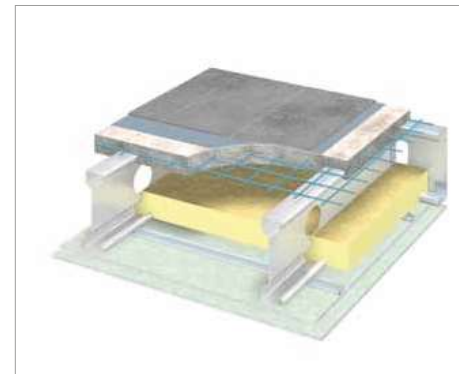


HD-Chipboard combined with fire resistant ceiling.

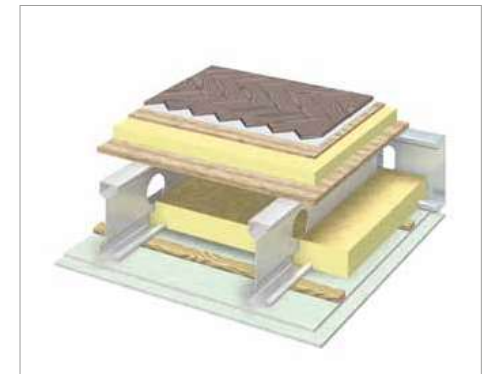


Steel gratings.

FLOOR MATERIALS FOR HOUSES AND OFFICES



Integrated concrete floor (see p. 78).



Floating floor for high acoustic performance in case of floor built up with light weight materials.

Maximum stability and strength will be achieved by screwing (or nailing...) at regular intervals of flooring material to upper flanges of beams and joists.