

Document Code	Title	Author; Organisation	Version	Date
IFC4RV - B01A	IFC4 Reference View Certification - Beam-01A	K. Hausknecht, B. Barutcu, M.Weise; AEC3	v2.1	22.11.2018

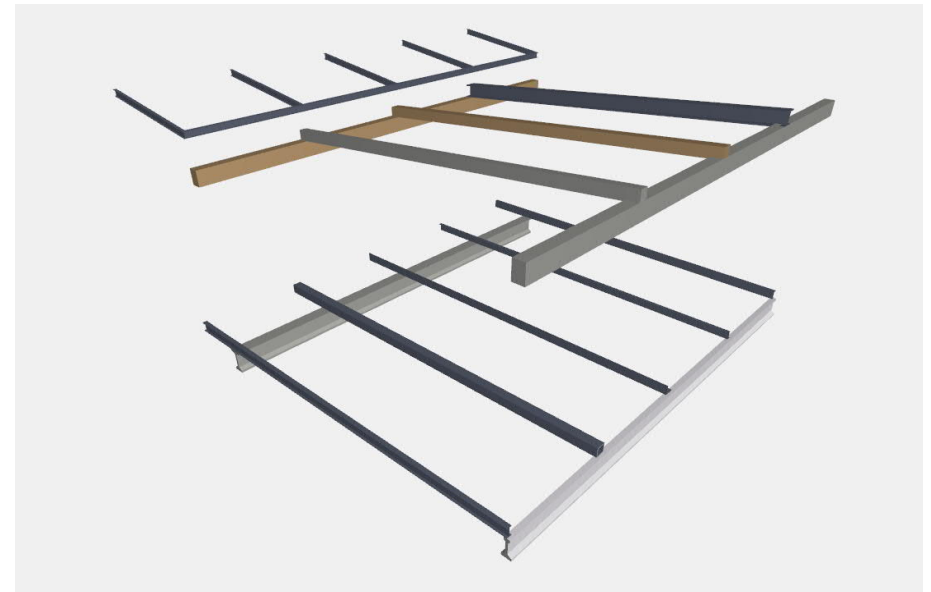
BEAM-01A

Beam-01A tests the architectural exchange requirements for beams.

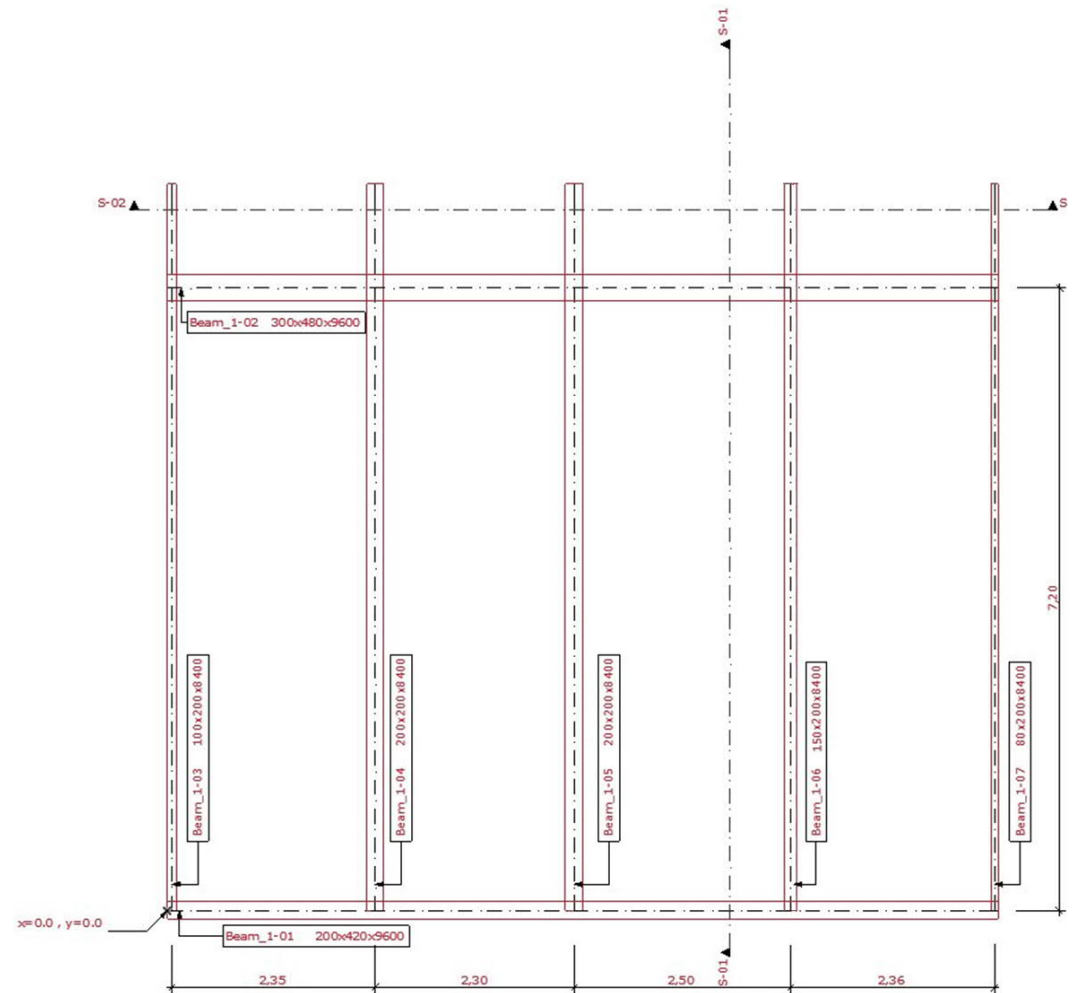
A detailed description of the test Beam-01A is provided in the following drawings and schedules. Values given in the schedule will take precedence over vague descriptions in drawings.

Required objects and mandatory concepts are listed in the “Attachment A - Mandatory Concepts”. For each object, name must be given exactly as stated in the attachment in order to be able to perform a check. Values should also be provided according to the attachment.

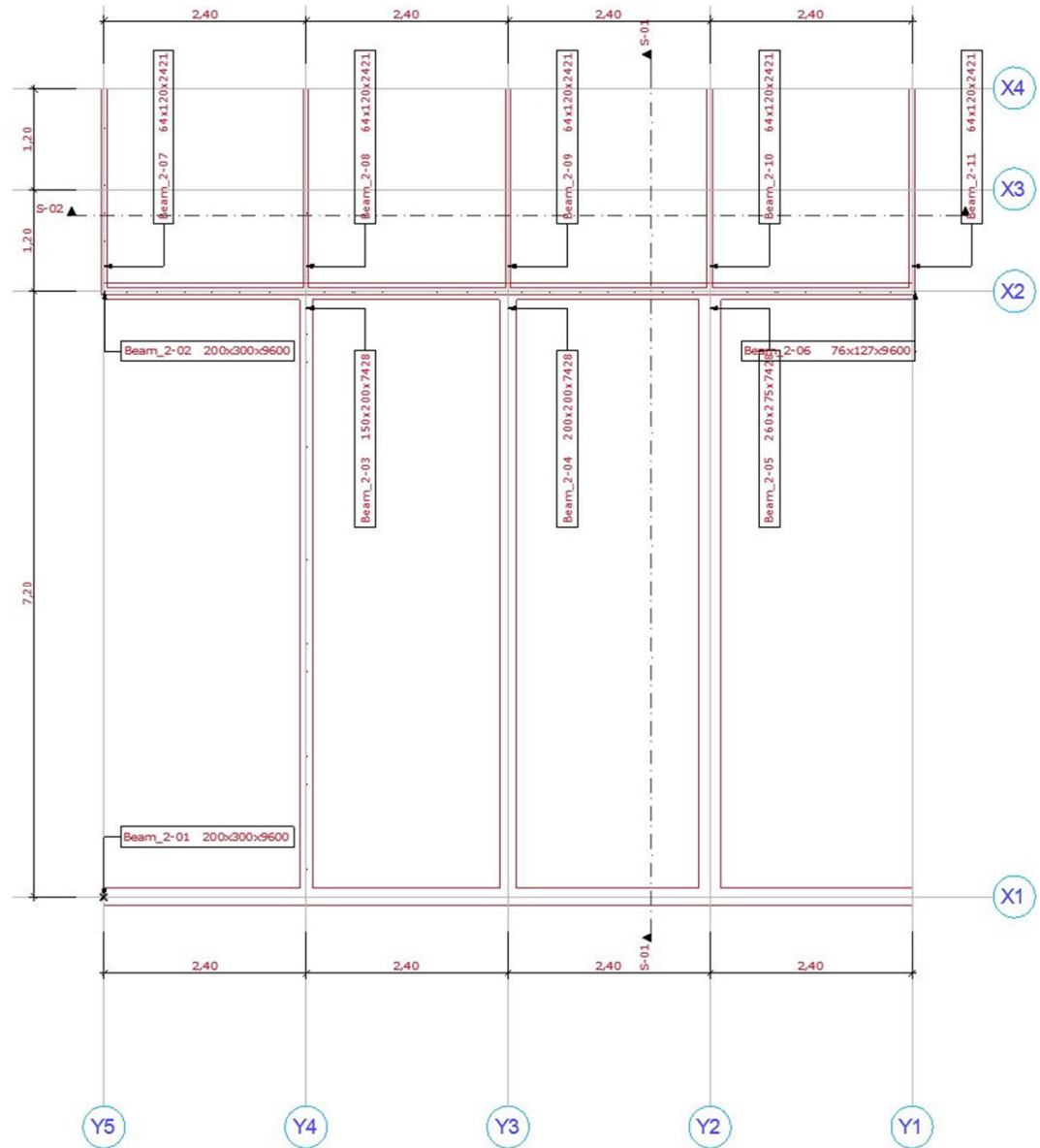
Name of IFC export file shall be "Beam_01A_<software abbreviation>.ifc"
The final delivery has to include the IFC file and the native file (following above naming convention).



Drawings



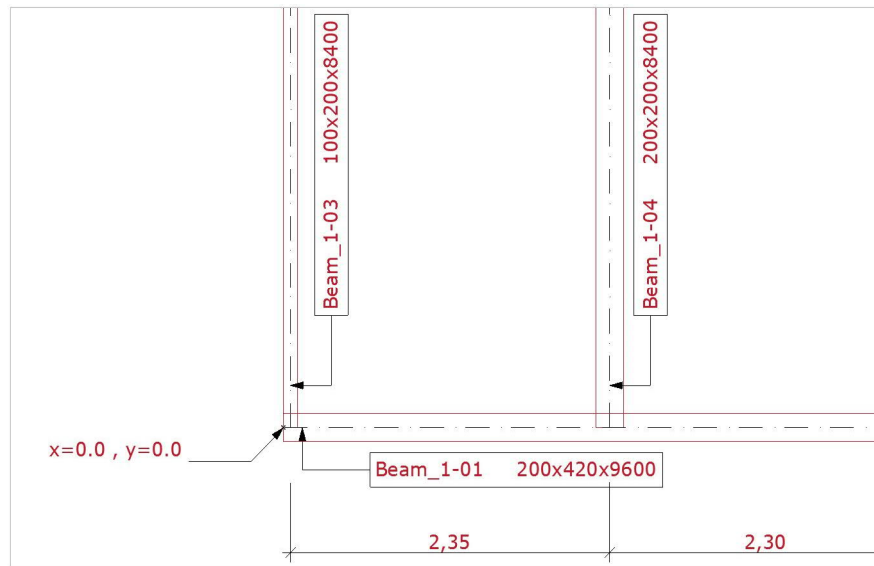
Ground Floor



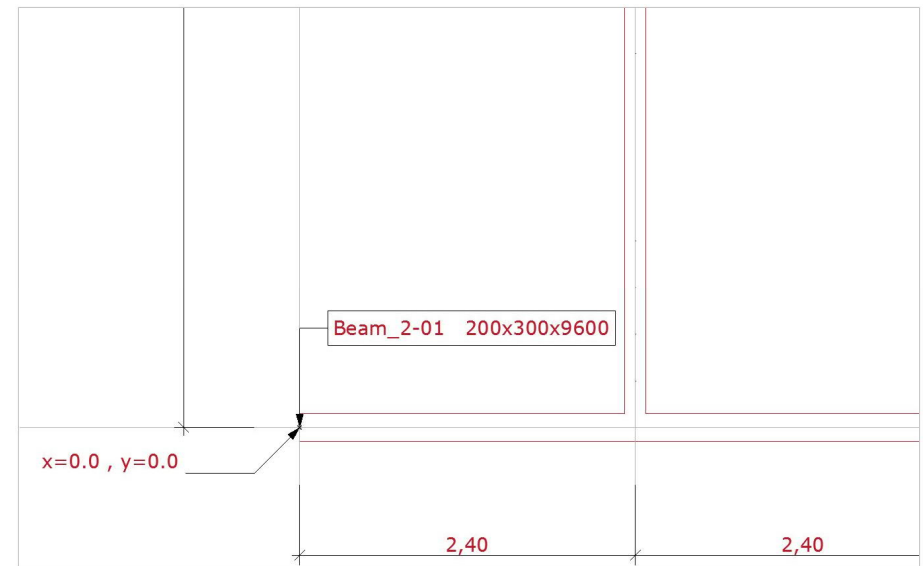
First Floor

Origin of Project Coordinate System

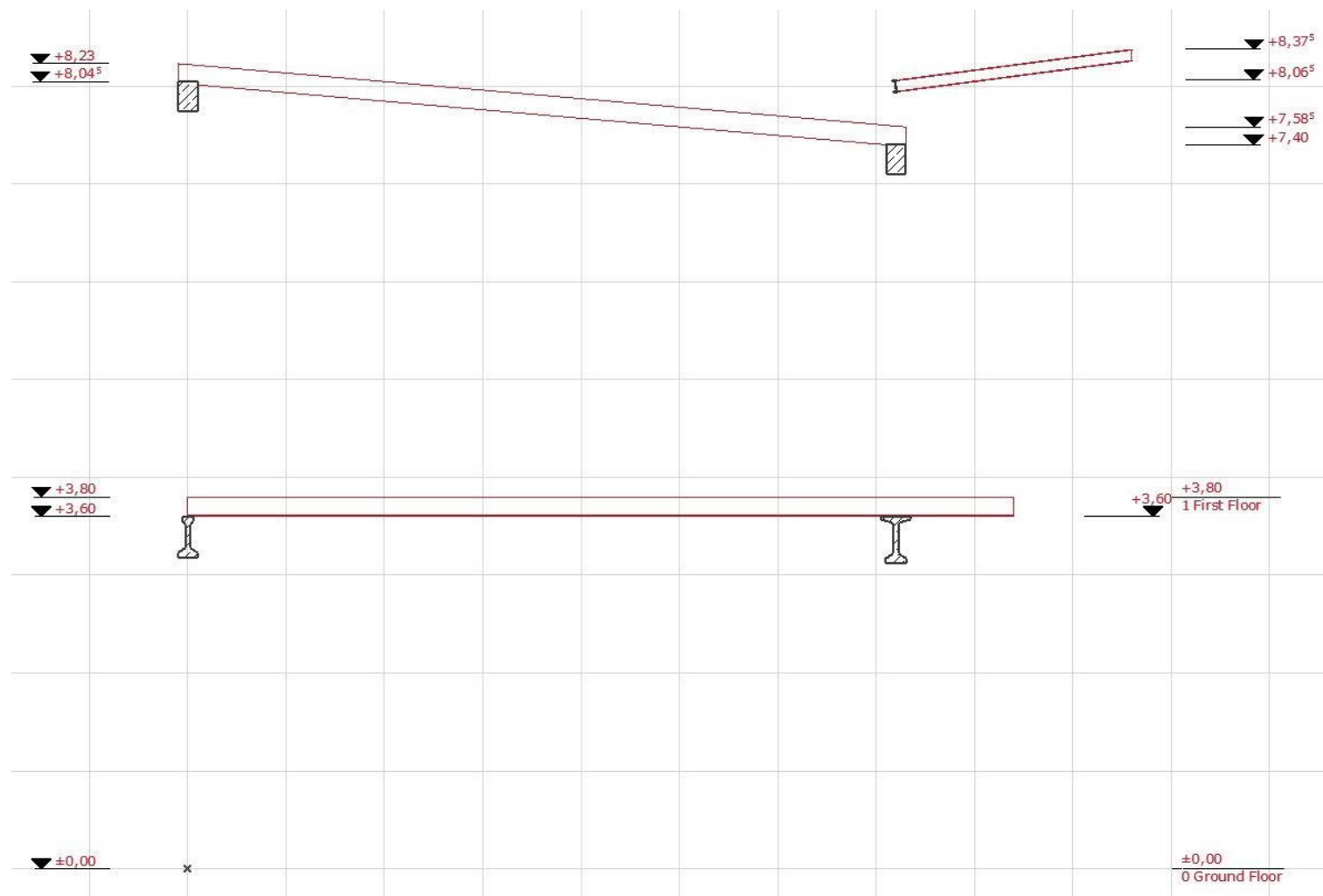
Ground Floor :

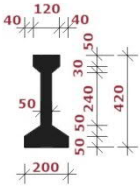
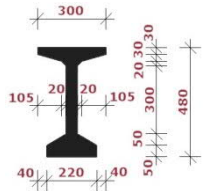
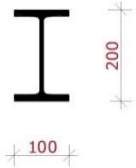
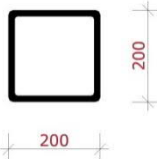


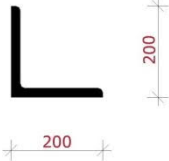
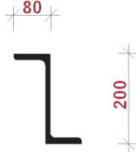
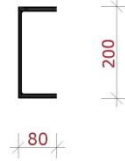
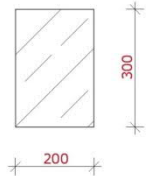
First Floor :

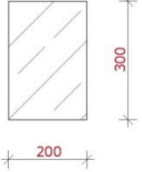
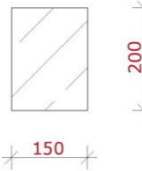
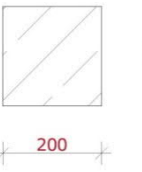



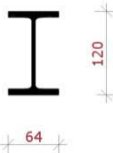
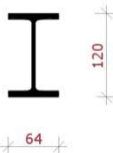
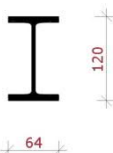
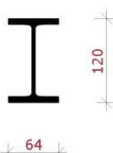
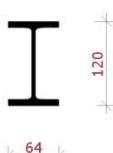
Section

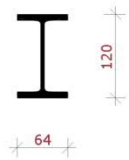


		Name*	Profile**	Top Edge (m)	Total Width (mm)	Total Height (mm)	Length (m)	Angle (Slope)	Rotation (Roll)
Ground Floor		Beam_1-01	Arbitrary Profile	3,6	200	420	9,6	0°	0°
		Beam_1-02	Arbitrary Profile 2	3,6	300	480	9,6	0°	0°
		Beam_1-03	I Shape Profile IPE 200 (DIN 1025-5)	3,8	100	200	8,4	0°	0°
		Beam_1-04	Rectangle Hollow Profile QRO 200x16 (EN 10210-2)	3,8	200	200	8,4	0°	0°

		Name*	Profile**	Top Edge (m)	Total Width (mm)	Total Height (mm)	Length (m)	Angle (Slope)	Rotation (Roll)
		Beam_1-05	L Shape Profile L 200x200x20 (EN 10056-1)	3,8	200	200	8,4	0°	0°
		Beam_1-06	Z Shape Profile Z 200 (DIN 1027)	3,8	150	200	8,4	0°	0°
		Beam_1-07	U Shape Profile UPE 200 (DIN 1026-2)	3,8	80	200	8,4	0°	0°
First Floor		Beam_2-01	Rectangle Profile	8,045	200	300	9,6	0°	0°

		Name*	Profile**	Top Edge (m)	Total Width (mm)	Total Height (mm)	Length (m)	Angle (Slope)	Rotation (Roll)
		Beam_2-02	Rectangle Profile	7,4	200	300	9,6	0°	0°
		Beam_2-03	Rectangle Profile 2	8,23	150	200	7,428	5°	0°
		Beam_2-04	Rectangle Profile 3	8,23	200	200	7,428	5°	0°
		Beam_2-05	I Shape Profile 2 (welded profile) IS 206/275/8/10/4	8,305	260	275	7,428	5°	0°

		Name*	Profile**	Top Edge (m)	Total Width (mm)	Total Height (mm)	Length (m)	Angle (Slope)	Rotation (Roll)
		Beam_2-06	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,064	64	120	9,6	0°	7,5°
		Beam_2-07	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,376	64	120	2,421	7,5°	0°
		Beam_2-08	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,376	64	120	2,421	7,5°	0°
		Beam_2-09	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,376	64	120	2,421	7,5°	0°
		Beam_2-10	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,376	64	120	2,421	7,5°	0°

		Name*	Profile**	Top Edge (m)	Total Width (mm)	Total Height (mm)	Length (m)	Angle (Slope)	Rotation (Roll)
		Beam_2-11	I Shape Profile 3 IPE 120 (DIN 1025-5)	8,376	64	120	2,421	7,5°	0°

* Object name must be given as stated in the “Attachment A – Mandatory Concepts”.

** This section describes only the geometry of the profile. The profile name must be given as stated in the “Attachment A – Mandatory Concepts”.