V1.0.0

CODE-ACCORD Annotation Strategy

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1. Sentence Labels

The following labels are selected for the sentence-level annotations.

Table 1 Sentence labels

Label	Description
complete-regulatory	A regulatory sentence which expresses a rule and contains all the details itself without any linguistical co-references that are unresolvable within the sentence, references to external sources (e.g., sections, chapters, documents, etc.) or incomplete/ambiguous concepts
other	Any sentence which is not a complete-regulatory sentence

1.1. Sample Annotations

Sample annotations for the sentence level from different building codes/approved documents are provided below.

Table 2 Sample sentences under the category – 'complete-regulatory'

ID	Sentence	Document
1	The gradient of the passageway located in an outdoor space may not exceed five per cent.	Accessibility of Buildings – Finnish to English
2	There shall be a horizontal landing with a length of at least 1,500 millimetres at the lower and upper end of the ramp.	Accessibility of Buildings – Finnish to English
3	A fire door must be self-closing and self-bolting.	Fire Safety – Finnish to English
4	In a residential building the sauna, washing and changing facility common to all residents shall be suitable for persons with mobility and functional impairment.	Accessibility of Buildings – Finnish to English
5	Smoke and heat alarms should have a standby power supply, such as a battery (rechargeable or non-rechargeable) or capacitor.	Fire Safety – UK
6	There shall be an easily noticeable passageway with a width of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the use of the building.	Accessibility of Buildings – Finnish to English
7	If the building has a control system, the toilet facility shall have a security alarm connection to the control.	Accessibility of Buildings – Finnish to English
8	If a fire door is kept open in normal use, it shall be equipped with devices that will close the door in the event of fire.	Fire Safety – Finnish to English
9	However, if the elevation difference is no more than 1,000 millimetres, the ramp may not have a gradient of more than eight per cent.	Accessibility of Buildings – Finnish to English

Table 3 Sample sentences under the category – 'other'. The 'Reason' column explains the reasons to label each sentence as 'other'.

ID	Sentence	Document	Reason
10	Conditions relating to the building of which	Structure – UK	Defines a scope – non-regulatory
	the wall forms part		sentence
11	The term 'fire alarm system' describes the	Fire Safety – UK	Provides a definition – non-
	combination of components for giving an		regulatory sentence

	audible and/or other perceptible warning of fire.		
12	This Decree enters into force on 1 January 2018.	Energy Efficiency – Finnish to English	Provides general information – non-regulatory sentence Contains linguistical co-reference (this) – incomplete sentence
13	The ramp referred to in subsection 1 above shall be easily noticeable and straight with a smooth, hard and non-slippery surface, width of at least 900 millimetres and, if the ramp is not connected to a fixed structure, a protective edge of at least 50 millimetres in height.	Accessibility of Buildings – Finnish to English	Refers to an external source (subsection 1) – incomplete sentence
14	The design should be based on identification of the hazards to which the structure is likely to be subjected and assessment of the risks.	Structure – UK	Contains incomplete/ambiguous concepts (hazards) – incomplete sentence
15	Such a parking space shall have a width of at least 3,600 millimetres and a length of at least 5,000 millimetres and be marked with the International Symbol of Access.	Accessibility of Buildings – Finnish to English	Continuation of the previous sentence – incomplete sentence

2. Entity Labels

All sentences labelled as 'complete-regulatory' need to be annotated for entities.

The labels listed in Table 4 are selected for entity labelling.

Entity: An entity is a complete unit that belongs to any of the following categories, comprised of a text span with one or more tokens.

e.g., building, passageway, fire door, residential building, smoke and heat alarms, outdoor space

Note

A unit formed by multiple tokens is considered a single entity if it is well-known to the targeted domain or if the targeted domain considers it a single unit.

e.g., fire door, residential building, smoke and heat alarms, outdoor space

Otherwise, appropriate entity labels should be provided for the unit after breaking it down into entities.

e.g., boundary of the plot – <property> boundary </property> of the <object> plot </object>

Table 4 Entity labels

Label	Description
object	An ontological concept which represents a thing that is subject to a particular
	requirement
property	Property of an object (e.g., width, height)
quality	Quality or uncountable characteristic of an object/property
value	A standard or a numerical value that defines a quantity

2.1. Sample Annotations

Sample annotations for the entity level from different building codes/approved documents are provided below.

Table 5 Sample entity annotations. In the 'Entity-labelled Sentence' column, each text span which represents an entity is surrounded by the tags: <entity-label></entity-label>. Also, font colour was applied following the entity colour code in Table 4 for a clear distinction.

ID	Original Sentence	Entity-labelled Sentence
1	The gradient of the passageway located in	The <pre>cproperty>gradient</pre> /property> of the
	an outdoor space may not exceed five per	<object>passageway</object> located in an
	cent.	<object>outdoor space</object> may not exceed
		<value>five per cent</value> .
2	There shall be a horizontal landing with a	There shall be a <quality>horizontal</quality>
	length of at least 1,500 millimetres at the	<object>landing</object> with a
	lower and upper end of the ramp.	<pre><pre><pre><pre><pre><pre>property>length</pre>/property> of at least</pre></pre></pre></pre></pre>
		<value>1,500 millimetres</value> at the
		<pre><pre><pre><pre><pre><pre>property>lower and upper end</pre>/property> of the</pre></pre></pre></pre></pre>
		<object>ramp</object> .
3	A fire door must be self-closing and self-	A <object>fire door</object> must be <quality>self-</quality>
	bolting.	closing and <quality>self-</quality>
		bolting.
4	In a residential building the sauna, washing	In a <object>residential building</object> the
	and changing facility common to all	<object>sauna, washing and changing</object>
	residents shall be suitable for persons with	facility <quality>common to all</quality>
	mobility and functional impairment.	residents shall be <quality>suitable for</quality>
		persons with mobility and functional
		impairment.
5	Smoke and heat alarms should have a	<object>Smoke and heat alarms</object> should
	standby power supply, such as a battery	have a <pre></pre>
	(rechargeable or non-rechargeable) or	supply, such as a
	capacitor.	<object>battery</object>
		(<quality>rechargeable</quality> or <quality>non-</quality>
		rechargeable) or
		<object>capacitor</object> .
6	There shall be an easily noticeable	There shall be an <quality>easily</quality>
	passageway with a width of at least 1,200	noticeable <object>passageway</object>
	millimetres and a smooth, hard and non-	with a <pre>property>width</pre> /property> of at least
	slippery surface that leads to the building	<value>1,200 millimetres</value> and a
	from the boundary of the plot or building	<quality>smooth</quality> , <quality>hard</quality>
	site and from the space and area that serve	and <quality>non-slippery</quality>
	the use of the building.	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
		to the building from the
		<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
		<pre><object>plot</object> or <object>building site </object> and from the <object> capacity consequences.</object></pre>
		site and from the <object>space</object>
		and <object>area</object> that <quality>serve the</quality>
7	If the building has a control system, the	use of the building.
′	If the building has a control system, the	If the <object>building</object> has a <object>control system</object> , the <object>toilet</object>
	toilet facility shall have a security alarm connection to the control.	
1	נטוווופגנוטוו נט נוופ נטוונוטו.	facility shall have a <object>security alarm</object>

		connection to the <object>control</object> .
8	If a fire door is kept open in normal use, it	If a <object>fire door</object> is <quality>kept open</quality>
	shall be equipped with devices that will close	in normal use, it shall be equipped with
	the door in the event of fire.	<object>devices that will close the door in the event</object>
		of fire.

3. Relation Labels

All sentences labelled as 'complete-regulatory' need to be annotated for relations.

The labels listed in Table 6 are selected for relation labelling.

Relation: A relation is a link or connection between two entities, according to the text description in a sentence.

Note:

Since relations form between entities, entity labels should be assigned first before the relation labels.

Table 6 Relation labels

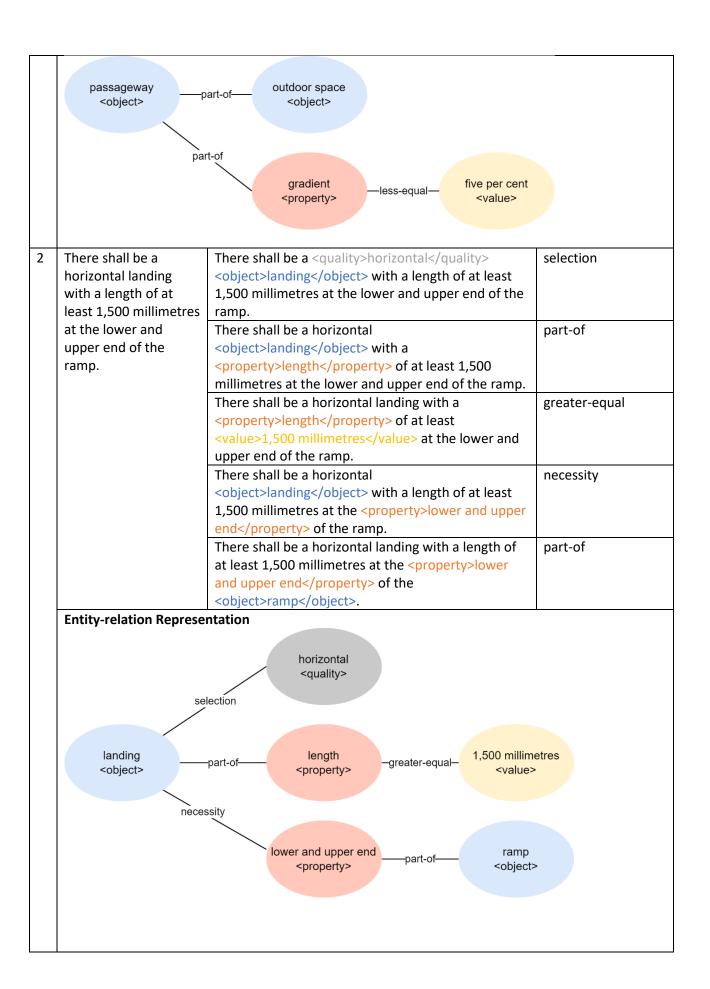
Label	Description
selection	A limit to the scope of an object/property based on another object, a quality or a user
necessity	A qualitative/subjective or existential necessity of an object/property (e.g., should,
	should have, shall be, etc.)
part-of	Being a part of an object/property
not-part-of	Not being a part of an object/property
greater	A value that should be greater than to
greater-equal	A value that should be greater than or equal to
equal	A value that should be equal to
less-equal	A value that should be less than or equal to
less	A value that should be less than to

3.1. Sample Annotations

Sample annotations for the relation level from different building codes/approved documents are provided below.

Table 7 Sample relation annotations. The 'Entity Pairs' column represents the pair of entities which form the relation presented in the 'Relation' column. Similar to the above content, each entity is surrounded by the tags: <entity-label></entity-label> and indicated by the font colour following the entity colour code in Table 4. 'Entity-relation Representation' illustrates the entities and their relations in a connected graph for more clarity.

ID	Original Sentence	Entity Pairs	Relation
1	The gradient of the	The <pre><pre>property>gradient</pre></pre> of the	part-of
	passageway located in	<object>passageway</object> located in an outdoor	
	an outdoor space may	space may not exceed five per cent.	
	not exceed five per	The gradient of the <object>passageway</object>	Part-of
	cent.	located in an <object>outdoor space</object> may	
		not exceed five per cent.	
		The <pre><pre>continue</pre><pre>continue</pre><pre>The <pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property</pre><pre>property<</pre></pre></pre>	less-equal
		passageway located in an outdoor space may not	
		exceed <value>five per cent</value> .	
	Entity-relation Representation		



3	<object></object>	A <object>fire door</object> must be <quality>self- closing</quality> and self-bolting. A <object>fire door</object> must be self-closing and <quality>self-bolting</quality> . ntation self-closing <quality> essity self-bolting <quality></quality></quality>	necessity
4	In a residential building the sauna, washing and changing facility common to all residents shall be suitable for persons	In a <object>residential building</object> the <object>sauna, washing and changing facility</object> common to all residents shall be suitable for persons with mobility and functional impairment. In a residential building the <object>sauna, washing</object>	part-of selection
	with mobility and functional impairment.	and changing facility <quality>common to all residents</quality> shall be suitable for persons with mobility and functional impairment. In a residential building the <object>sauna, washing and changing facility</object> common to all residents shall be <quality>suitable for persons with</quality>	necessity
	residential buildingpa	sauna, washing and changing facility <object> selection— common to all residents <quality> necessity suitable for persons with mobility and functional impairmer <quality></quality></quality></object>	
5	Smoke and heat alarms should have a standby power supply, such as a battery (rechargeable or non-	<pre><object>Smoke and heat alarms</object> should have a <pre>property>standby power supply</pre>/property>, such as a battery (rechargeable or non-rechargeable) or capacitor. Smoke and heat alarms should have a</pre>	necessity selection
	rechargeable) or capacitor.	<pre>smoke and heat alarms should have a <pre>property>standby power supply</pre>/property>, such as a <object>battery</object> (rechargeable or non- rechargeable) or capacitor. Smoke and heat alarms should have a standby power supply, such as a <object>battery</object></pre>	selection

	T .	T	T
1		(<quality>rechargeable</quality> or non-	
		rechargeable) or capacitor.	
		Smoke and heat alarms should have a standby	selection
		power supply, such as a <object>battery</object>	
		(rechargeable or <quality>non-</quality>	
		rechargeable) or capacitor.	
		Smoke and heat alarms should have a	selection
		<pre><pre><pre><pre><pre><pre>property>standby power supply, such</pre></pre></pre></pre></pre></pre>	
		as a battery (rechargeable or non-rechargeable) or	
		<pre><object>capacitor</object>.</pre>	
	Entity-relation Represe		
	Littly-relation Represe	intation	
	Smoke and heat alarms —ne <object></object>	ecessity—standby power supply _selection— capacitor <object></object>	
		selection	
		rechargeable	
		190	
		selection <quality></quality>	
		battery	
		<object></object>	
		selection non-rechargeable	
		<quality></quality>	
6	There shall be an	There shall be an <quality>easily</quality>	selection
	easily noticeable	noticeable <object>passageway</object>	
	passageway with a	with a width of at least 1,200 millimetres and a	
	, ,	·	
	width of at least 1.200	I smooth, hard and non-slippery surface that leads to	
	width of at least 1,200 millimetres and a	smooth, hard and non-slippery surface that leads to	
	millimetres and a	the building from the boundary of the plot or	
	millimetres and a smooth, hard and	the building from the boundary of the plot or building site and from the space and area that serve	
	millimetres and a smooth, hard and non-slippery surface	the building from the boundary of the plot or building site and from the space and area that serve the use of the building.	part of
	millimetres and a smooth, hard and non-slippery surface that leads to the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre><pre><pre><pre>property>width</pre></pre></pre></pre></pre></pre></pre>	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre>property>width</pre> /property> of at least 1,200 millimetres and a smooth, hard and non-slippery	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre>property>width</pre> /property> of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre><pre><pre>property>width</pre></pre> of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and</pre></pre></pre></pre>	part-of
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre><pre>property>width</pre></pre> of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable passageway with</pre></pre></pre>	part-of greater-equal
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre> <pre> <pre> <pre> <pre> property>width of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable passageway with a <pre> property>width of at least <value>1,200 millimetres</value> and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building</pre></pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre> <pre> <pre> <pre> <pre> property>width of at least 1,200 millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable passageway with a <pre> property>width of at least <value>1,200 millimetres</value> and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the use of the building. </pre> There shall be an easily noticeable</pre></pre></pre></pre></pre>	greater-equal
	millimetres and a smooth, hard and non-slippery surface that leads to the building from the boundary of the plot or building site and from the space and area that serve the	the building from the boundary of the plot or building site and from the space and area that serve the use of the building. There shall be an easily noticeable <object>passageway</object> with a <pre><pre><pre><pre></pre></pre></pre></pre>	greater-equal

slippery <pre>property>surface</pre> /property> that leads to the building from the boundary of the plot or	
the building from the boundary of the plot or	
building site and from the space and area that serve the use of the building.	
There shall be an easily noticeable passageway with	selection
a width of at least 1,200 millimetres and a	Selection
<quality>smooth</quality> , hard and non-slippery	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
site and from the space and area that serve the use	
of the building.	
There shall be an easily noticeable passageway with	selection
a width of at least 1,200 millimetres and a smooth,	Selection
<pre><quality>hard</quality> and non-slippery</pre>	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
building from the boundary of the plot or building	
site and from the space and area that serve the use	
of the building.	
There shall be an easily noticeable passageway with	selection
a width of at least 1,200 millimetres and a smooth,	SCICCIOII
hard and <quality>non-slippery</quality>	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
building from the boundary of the plot or building	
site and from the space and area that serve the use	
of the building.	
There shall be an easily noticeable passageway with	selection
a width of at least 1,200 millimetres and a smooth,	
hard and non-slippery	
<pre><pre><pre><pre><pre><pre><pre>property>surface</pre></pre><pre>property> that <quality>leads</quality></pre></pre></pre></pre></pre></pre>	
to the building from the boundary of the	
plot or building site and from the space and area	
that serve the use of the building.	
There shall be an easily noticeable passageway with	part-of
a width of at least 1,200 millimetres and a smooth,	
hard and non-slippery surface that leads to the	
building from the <pre>cycle</pre>	
of the <object>plot</object> or building	
site and from the space and area that	
serve the use of the building.	
There shall be an easily noticeable passageway with	part-of
a width of at least 1,200 millimetres and a smooth,	
hard and non-slippery surface that leads to the	
building from the <pre>cproperty>boundary</pre>	
of the plot or <object>building site</object> and	
from the space and area that serve the use of the	
building.	
There shall be an easily noticeable passageway with	selection
a width of at least 1,200 millimetres and a smooth,	
hard and non-slippery surface that <quality>leads to</quality>	
the building from the	
<pre><pre><pre><pre><pre><pre>property>boundary</pre>/property> of the plot or</pre></pre></pre></pre></pre>	

	building site and from the space and area that serve			
	the use of the building.			
	There shall be an easily noticeable passageway with	selection		
	a width of at least 1,200 millimetres and a smooth,			
	hard and non-slippery surface that <quality>leads to</quality>			
	the building from the boundary of the plot			
	or building site and from the			
	<object>space</object> and area that serve the use			
	of the building.			
	There shall be an easily noticeable passageway with	selection		
	a width of at least 1,200 millimetres and a smooth,			
	hard and non-slippery surface that leads to the			
	building from the boundary of the plot or building			
	site and from the <object>space</object> and area			
	that <quality>serve the use of the</quality>			
	building.			
	There shall be an easily noticeable passageway with	selection		
	a width of at least 1,200 millimetres and a smooth,			
	hard and non-slippery surface that <quality>leads to</quality>			
	the building from the boundary of the plot			
	or building site and from the space and			
	<object>area</object> that serve the use of the			
	building.			
	There shall be an easily noticeable passageway with	selection		
	a width of at least 1,200 millimetres and a smooth,			
	hard and non-slippery surface that leads to the			
	building from the boundary of the plot or building			
	site and from the space and <object>area</object>			
	that <quality>serve the use of the</quality>			
	building.			
E	Entity-relation Representation			

