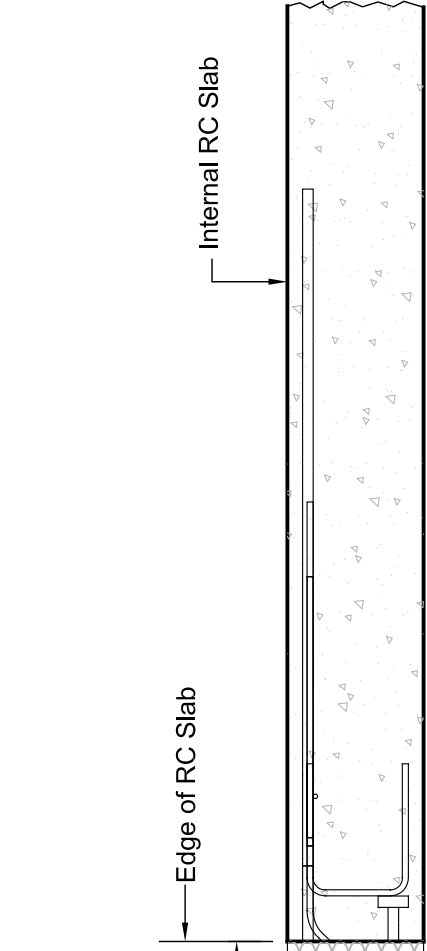
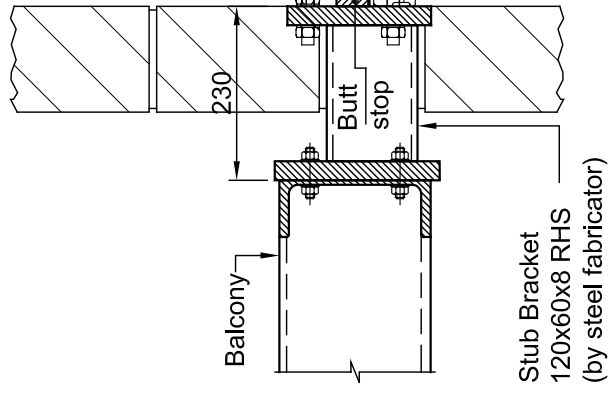


Endplate Detail

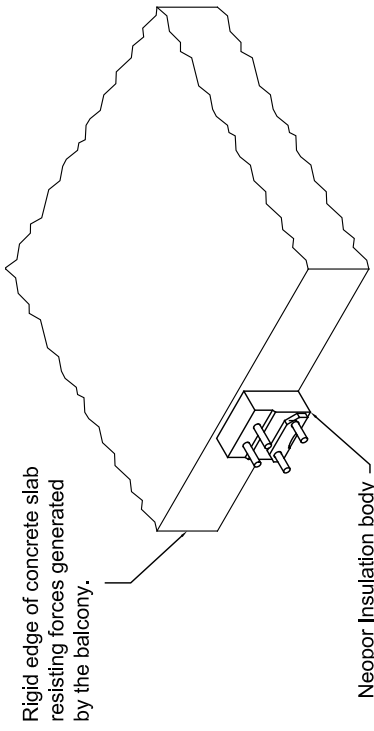
Showing hole setting-out
1:5



Option 1

Section Through Isokorb Schöck KS14-H180

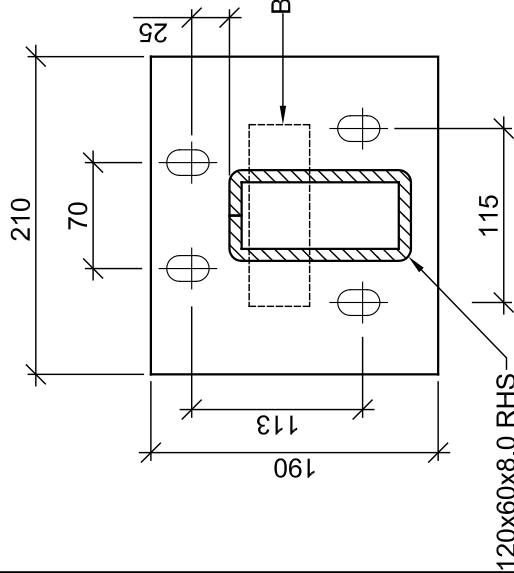
Structural Thermal Break Balcony connection.
 $M_{RD} = -8.35kNm$, $V_{RD} = +18.00kN$ (All Ultimate Limit State)
 1:10



Referring to the following drawing(s):

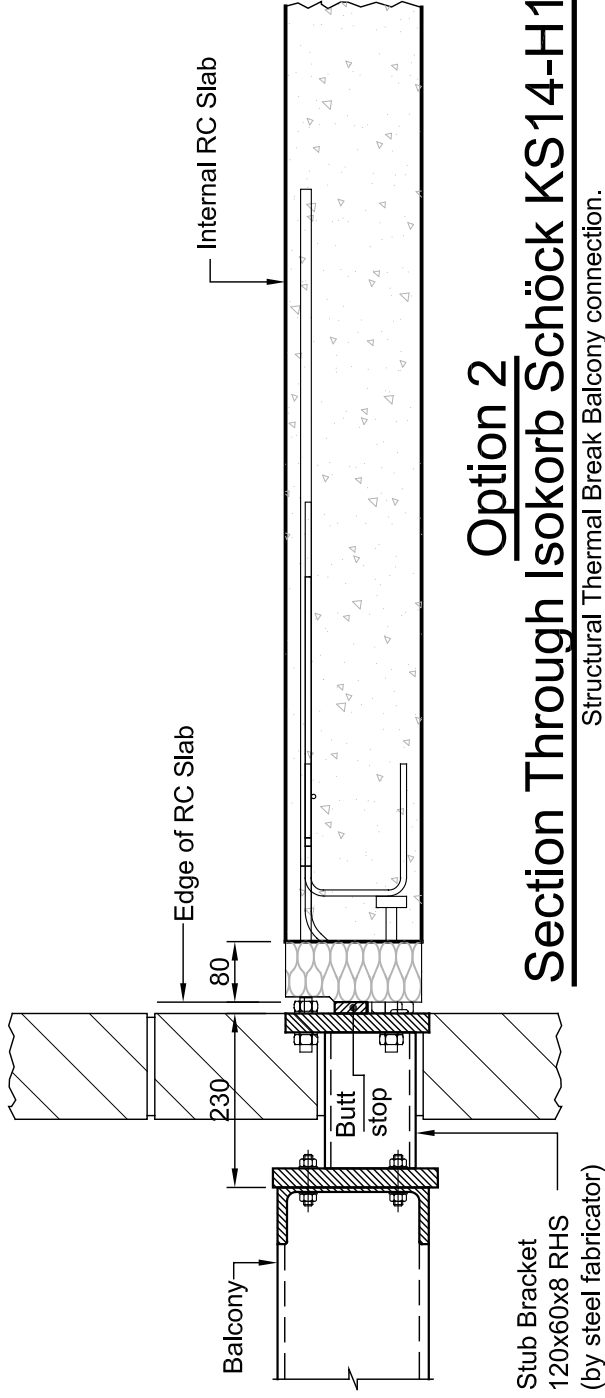
Note
 Cantilever beams fixed to Schöck Isokorb types KS always apply a bending moment (sometimes a torsional moment) to the RC member which incorporates the KS unit. This bending moment (hogging moment) can cause significant deflection of the internal RC member. Therefore - depending on the thickness and the span of the RC member - the length of the Schöck Isokorb tensile reinforcement is in many cases not long enough to totally cover tensile reinforcement requirements generated by the KS cantilever connection (compare EC2, Section 9.2.1.3, "Curtalement of longitudinal tension reinforcement").
 Instead Schöck Isokorb tensile reinforcement is designed to provide sufficient length for the design of lap splice with in-situ reinforcement. Schöck recommends to lap 2 no. H16 with the KS14 and 2 no. H20 with the KS20 respectively. With regard to the KS20 please consider EC2, Section 8.7.4, "Transverse reinforcement (links) in the lap zone".

Issued for Information	1	APR 2010	BS	RMD
Description	Rev.	Date	Designed	Drawn
Project		Title		
Schöck Ltd Bloxham Mill, Barford Road, Bloxham, Banbury OX15 4FF Tel. 0845 241 3390 Fax. 0845 241 3391		KS14-h180 - Option 1 Stub & Endplate Details		
Size	A4	Project No.	Drawing No.	Revision
Scale as shown	-	-	KS14-01	1



Endplate Detail

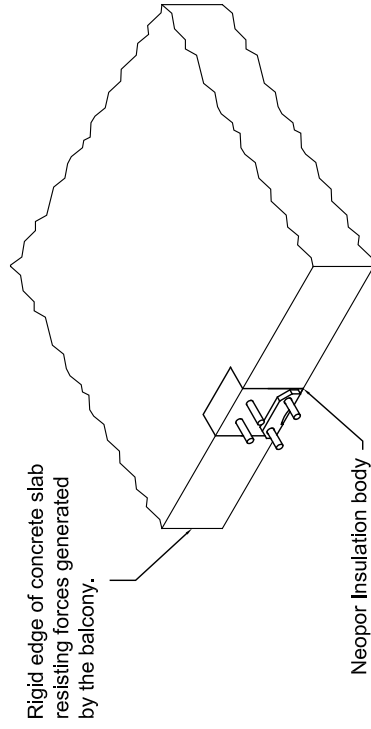
Showing hole setting-out
1:5



Option 2

Section Through Isokorb Schöck KS14-H180

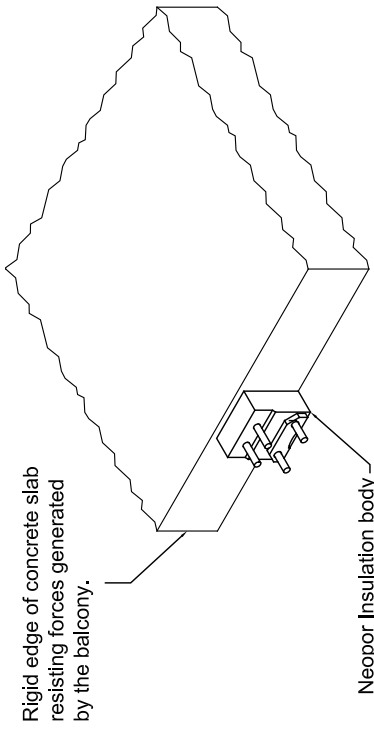
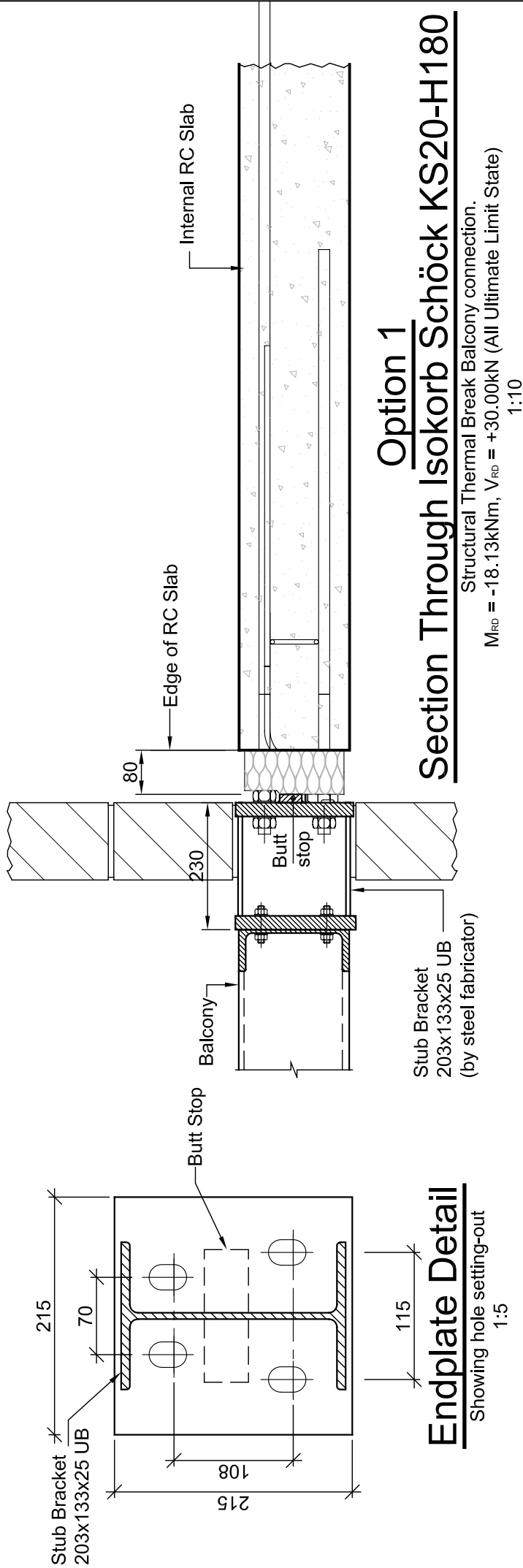
Structural Thermal Break Balcony connection.
 $M_{RD} = -8.35kNm$, $V_{RD} = +18.00kN$ (All Ultimate Limit State)
 1:10



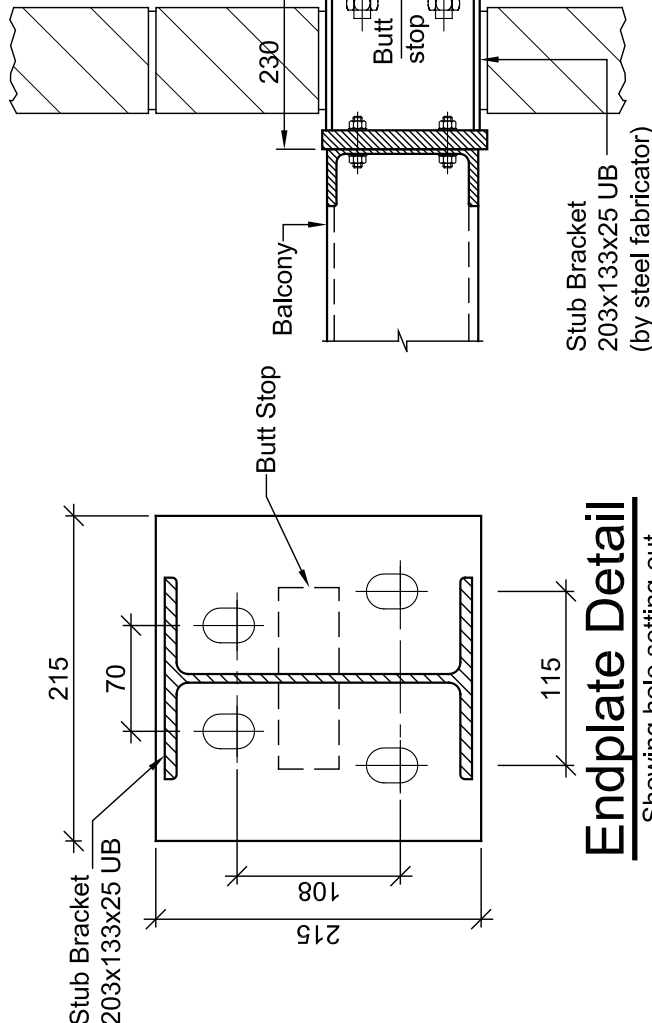
Referring to the following drawing(s):

Note
 Cantilever beams fixed to Schöck Isokorb types KS always apply a bending moment (sometimes a torsional moment) to the RC member which incorporates the KS unit. This bending moment (hogging moment) can cause significant deflection of the internal RC member. Therefore - depending on the thickness and the span of the RC member - the length of the Schöck Isokorb tensile reinforcement is in many cases not long enough to totally cover tensile reinforcement requirements generated by the KS cantilever connection (compare EC2, Section 9.2.1.3, "Curtalement of longitudinal tension reinforcement").
 Instead Schöck Isokorb tensile reinforcement is designed to provide sufficient length for the design of lap splice with in-situ reinforcement. Schöck recommends to lap 2 no. H16 with the KS14 and 2 no. H20 with the KS20 respectively. With regard to the KS20 please consider EC2, Section 8.7.4, "Transverse reinforcement (links) in the lap zone".

INFORMATION		1	APR 2010	BS	RMD
Description		Rev.	Date	Designed	Drawn
Project		Title			
Schöck Ltd Bloxham Mill, Barford Road, Bloxham, Banbury OX15 4FF Tel. 0845 241 3390 Fax. 0845 241 3391		KS14-h180 - Option 2 Stub & Endplate Details			
Size	A4	Project No.	-	Drawing No.	KS14-02
Scale	as shown			Revision	1

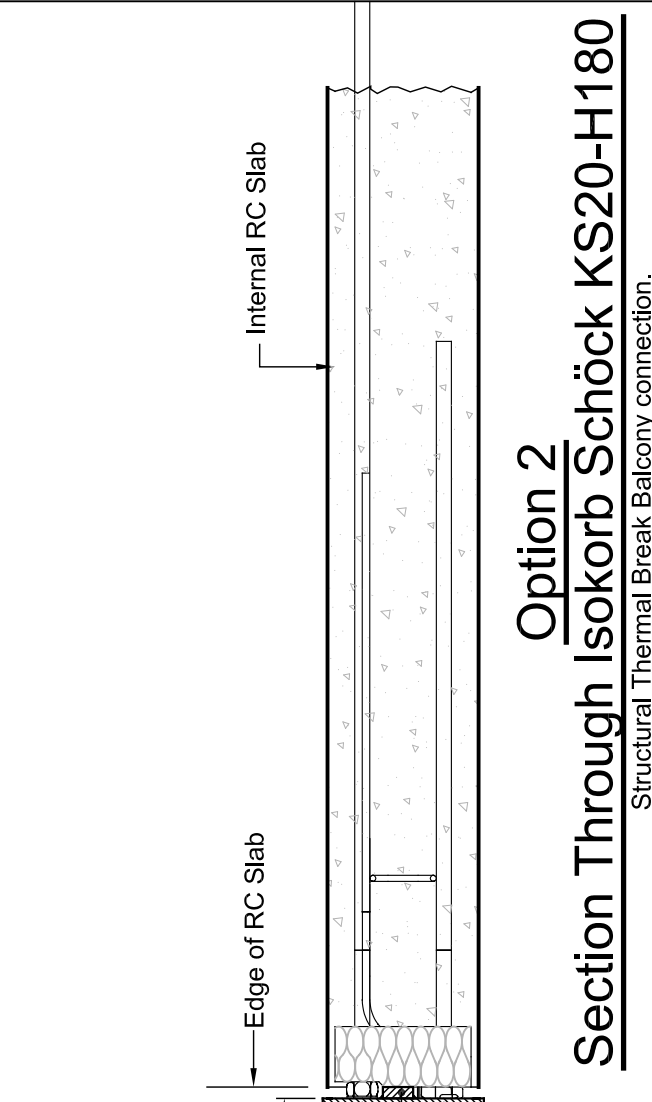


<p>Note Cantilever beams fixed to Schöck Isokorb types KS always apply a bending moment (sometimes a torsional moment) to the RC member which incorporates the KS unit. This bending moment (hogging moment) can cause significant deflection of the internal RC member. Therefore - depending on the thickness and the span of the RC member - the length of the Schöck Isokorb tensile reinforcement is in many cases not long enough to totally cover tensile reinforcement requirements generated by the KS cantilever connection (compare EC2, Section 9.2.1.3, "Curtalement of longitudinal tension reinforcement"). Instead Schöck Isokorb tensile reinforcement is designed to provide sufficient length for the design of lap splice with in-situ reinforcement. Schöck recommends to lap 2 no. H16 with the KS14 and 2 no. H20 with the KS20 respectively. With regard to the KS20 please consider EC2, Section 8.7.4, "Transverse reinforcement (links) in the lap zone".</p>	<p>Referring to the following drawing(s):</p>		<p>Issued for Information</p>	<p>1</p>	<p>APR 2010</p>	<p>BS</p>	<p>RMD</p>
	<p>Schöck Ltd Bloxham Mill, Barford Road, Bloxham, Banbury OX15 4FF Tel. 0845 241 3390 Fax. 0845 241 3391</p>		<p>Description</p>	<p>Rev.</p>	<p>Date</p>	<p>Designed</p>	<p>Drawn</p>
<p>Schöck Innovative Building Solutions</p>		<p>Project</p>	<p>Title</p> <p>KS20-h180 - Option 1 Stub & Endplate Details</p>				
<p>Size</p> <p>A4</p>	<p>Project No.</p> <p>-</p>	<p>Drawing No.</p> <p>KS20-01</p>	<p>Revision</p> <p>1</p>				
<p>Scale as shown</p>							



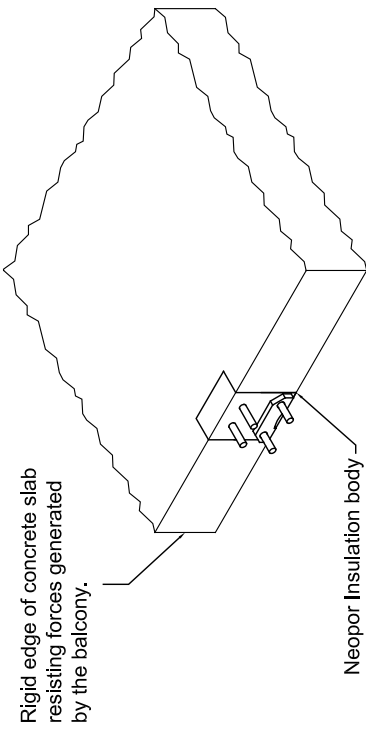
Endplate Detail

Showing hole setting-out
1:5



Option 2 Section Through Isokorb Schöck KS20-H180

Structural Thermal Break Balcony connection.
 $M_{RD} = -18.13kNm, V_{RD} = +30.00kN$ (All Ultimate Limit State)
1:10



Note
Cantilever beams fixed to Schöck Isokorb types KS always apply a bending moment (sometimes a torsional moment) to the RC member which incorporates the KS unit. This bending moment (hogging moment) can cause significant deflection of the internal RC member. Therefore - depending on the thickness and the span of the RC member - the length of the Schöck Isokorb tensile reinforcement is in many cases not long enough to totally cover tensile reinforcement requirements generated by the KS cantilever connection (compare EC2, Section 9.2.1.3, "Curtalement of longitudinal tension reinforcement").
Instead Schöck Isokorb tensile reinforcement is designed to provide sufficient length for the design of lap splice with in-situ reinforcement. Schöck recommends to lap 2 no. H16 with the KS14 and 2 no. H20 with the KS20 respectively. With regard to the KS20 please consider EC2, Section 8.7.4, "Transverse reinforcement (links) in the lap zone".

Referring to the following drawing(s):



INFORMATION	1	APR 2010	BS	RMD
Description	Rev.	Date	Designed	Drawn
Project	Title			
Size A4	Project No.	KS20-h180 - Option 2 Stub & Endplate Details		
Scale as shown	Drawing No.	Revision		
	KS20-02	1		

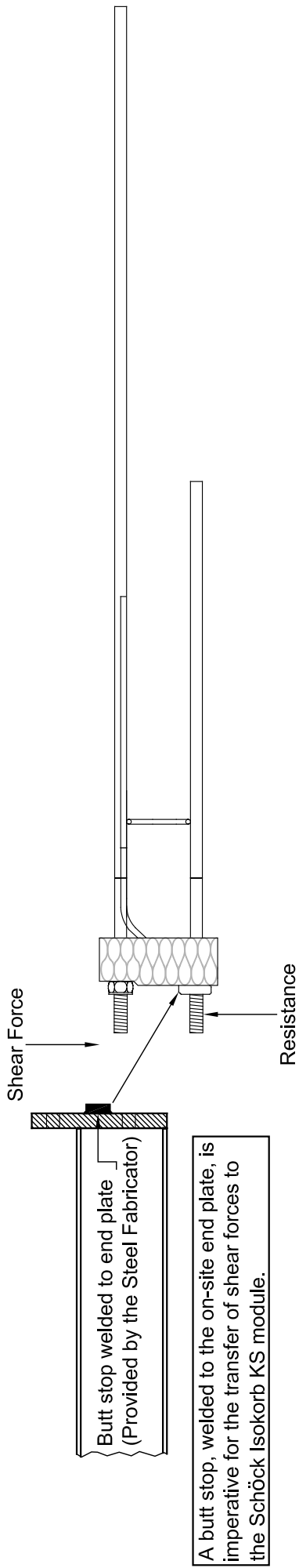


figure i) - Section showing the essential Butt stop for the connection of balcony steelwork to the Schöck Isokorb KS module.

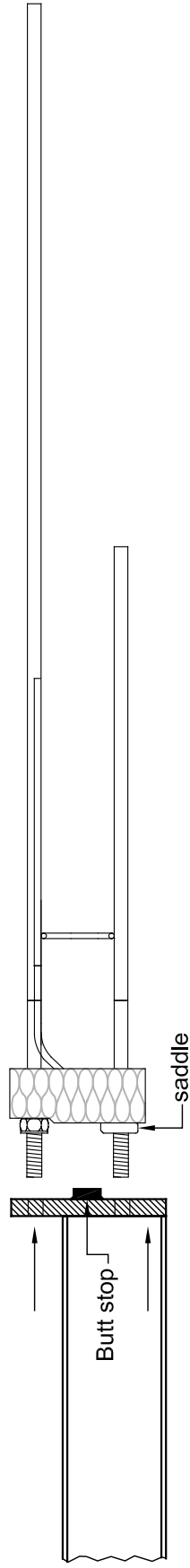


figure ii) - Section showing the mounting of the balcony steelwork to the Schöck Isokorb KS module.

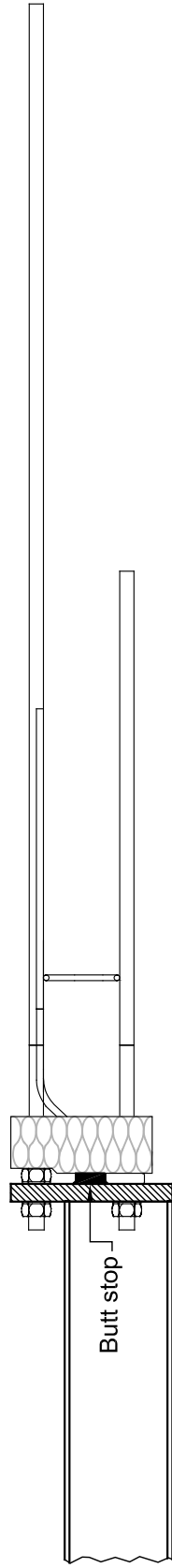

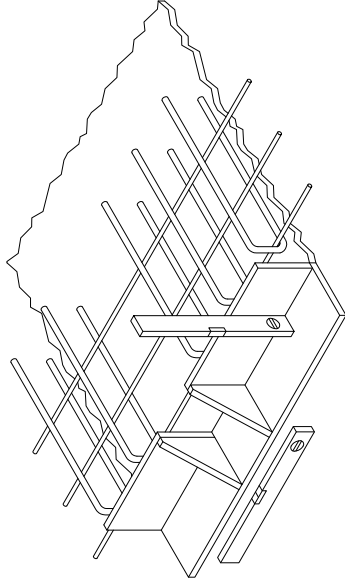
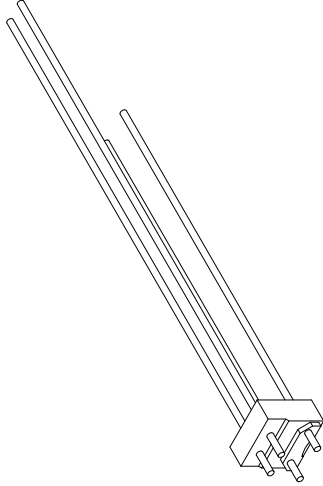
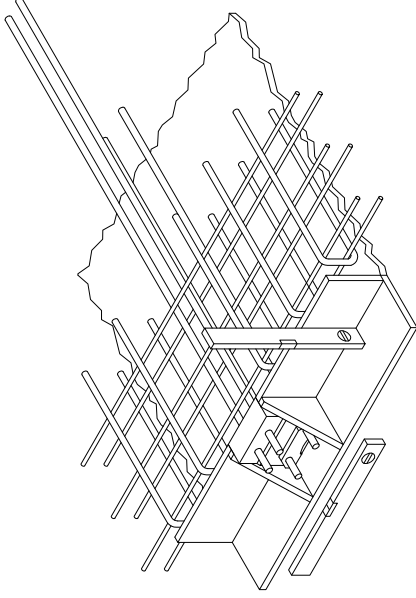


figure iii) - Section showing after mounting the butt stop transfers the shear forces to the Schöck Isokorb KS module.

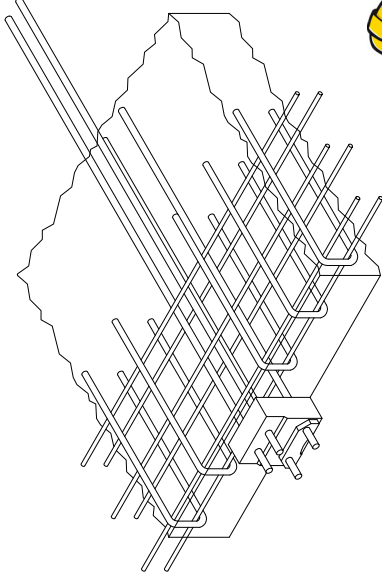
Referring to the following drawing(s):  Schöck Ltd Bloxham Mill, Barford Road, Bloxham, Banbury OX15 4FF Tel. 0845 241 3390 Fax. 0845 241 3391	INFORMATION Description	1 Rev.	APR 2010 Date	BS Designed	RMD Drawn
	Project Schöck Ltd Bloxham Mill, Barford Road, Bloxham, Banbury OX15 4FF Tel. 0845 241 3390 Fax. 0845 241 3391	Project No. -	Drawing No. KS20-03	Revision 1	Title Butt Stop Details
Size A4 Scale as shown	Project No. -	Drawing No. KS20-03	Revision 1		



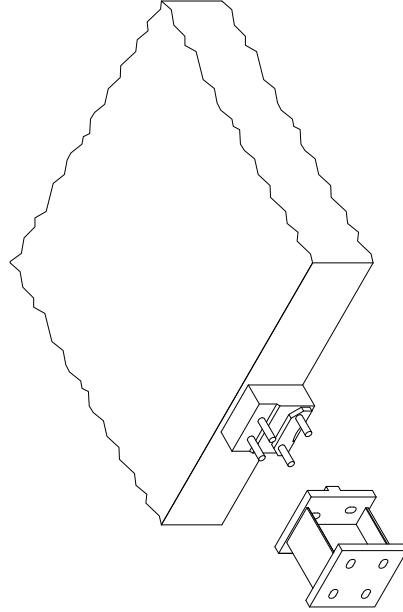
Fix Bottom & Edge Reinforcement as required.
Install Schöck Isokorb KS unit.



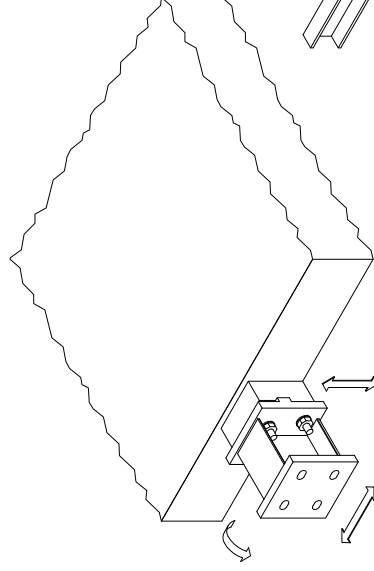
Fix connective reinforcement if required.



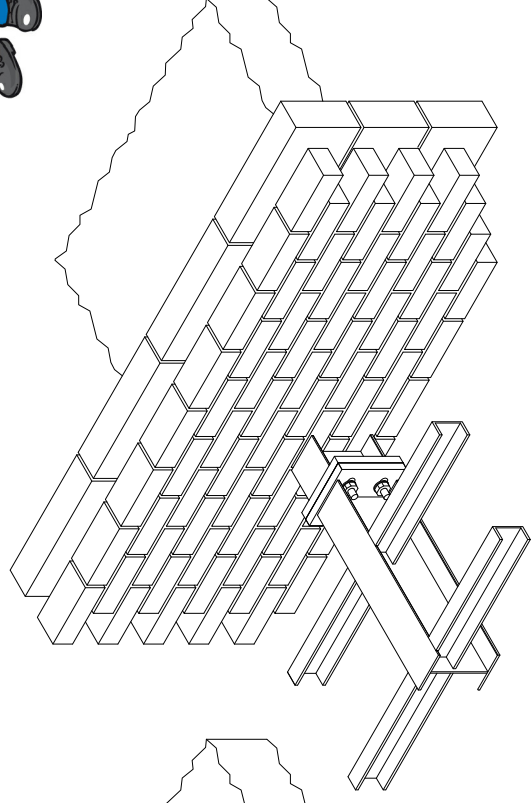
Pour Concrete.



Attach Stub to Schöck isokorb KS unit.



Vertical, Horizontal & Tilt Alignment can be adjusted.



Construction of external skin can be completed un-hindered. Then Balcony steelwork can be post-fixed.

Torque	
Bolt size	M max
M16 (KS14)	50Nm
M22 (KS20)	80Nm

The top bolts of the KS unit can be adjusted to ensure that the Stub connection is perpendicular even when the concrete edge is not plumb.

KS Unit cast into slab.

Shims
(supplied with product)

Vertical Adjustment can be applied by using stainless steel shims laid on top of the saddle plate of the KS unit. The stub endplate will also have vertical slotted holes to aid vertical alignment.

Stub Section.
(by steel fabricator)

Horizontal Adjustment of the balcony is possible by drilling horizontal slotted holes into the stub endplate connecting to the balcony steelwork.

Balcony Steelwork.
(by others)

