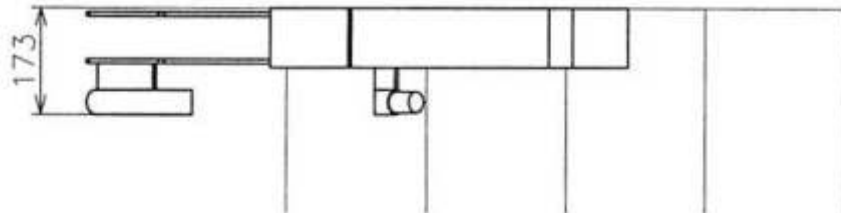
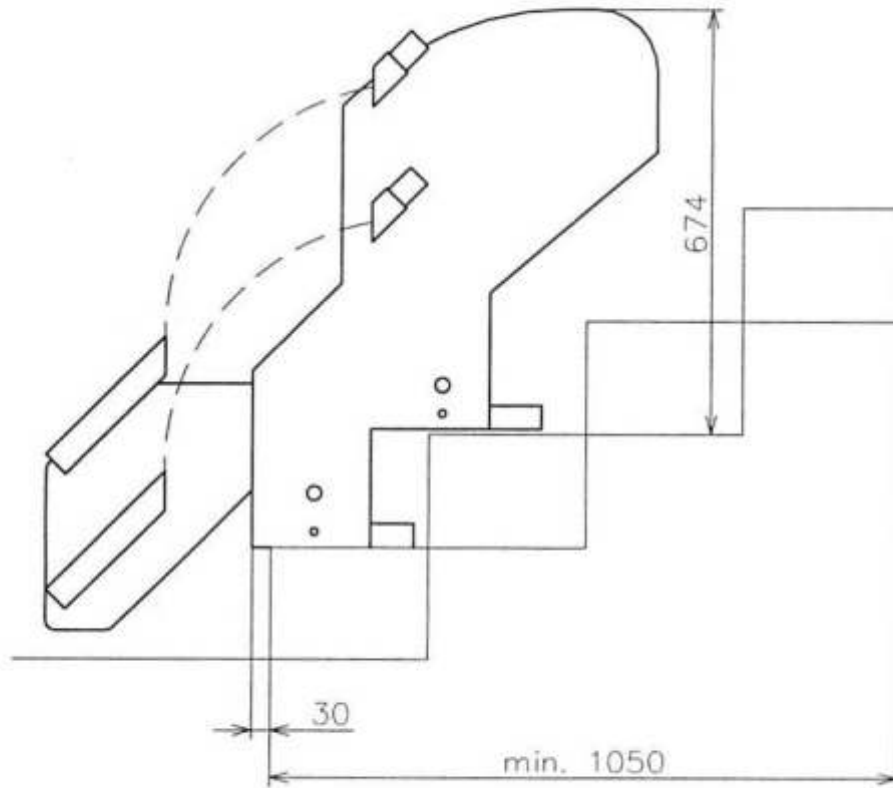
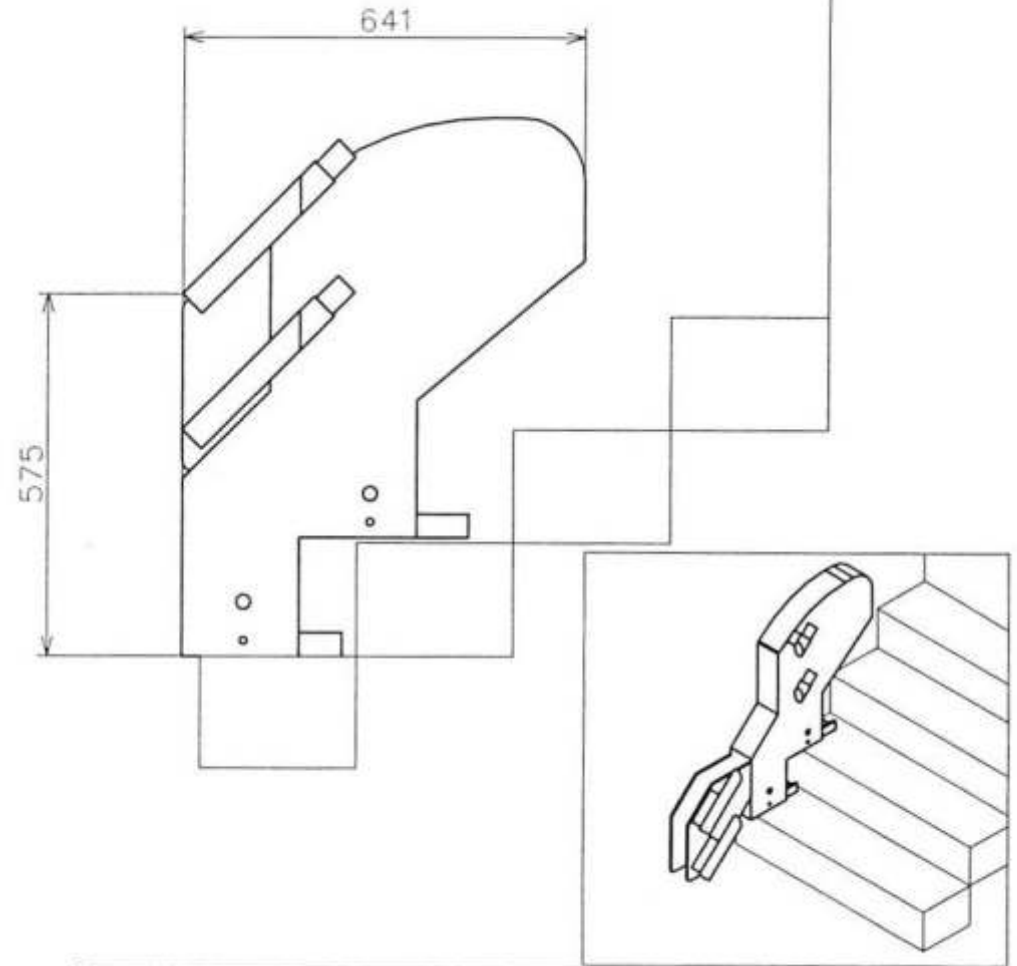


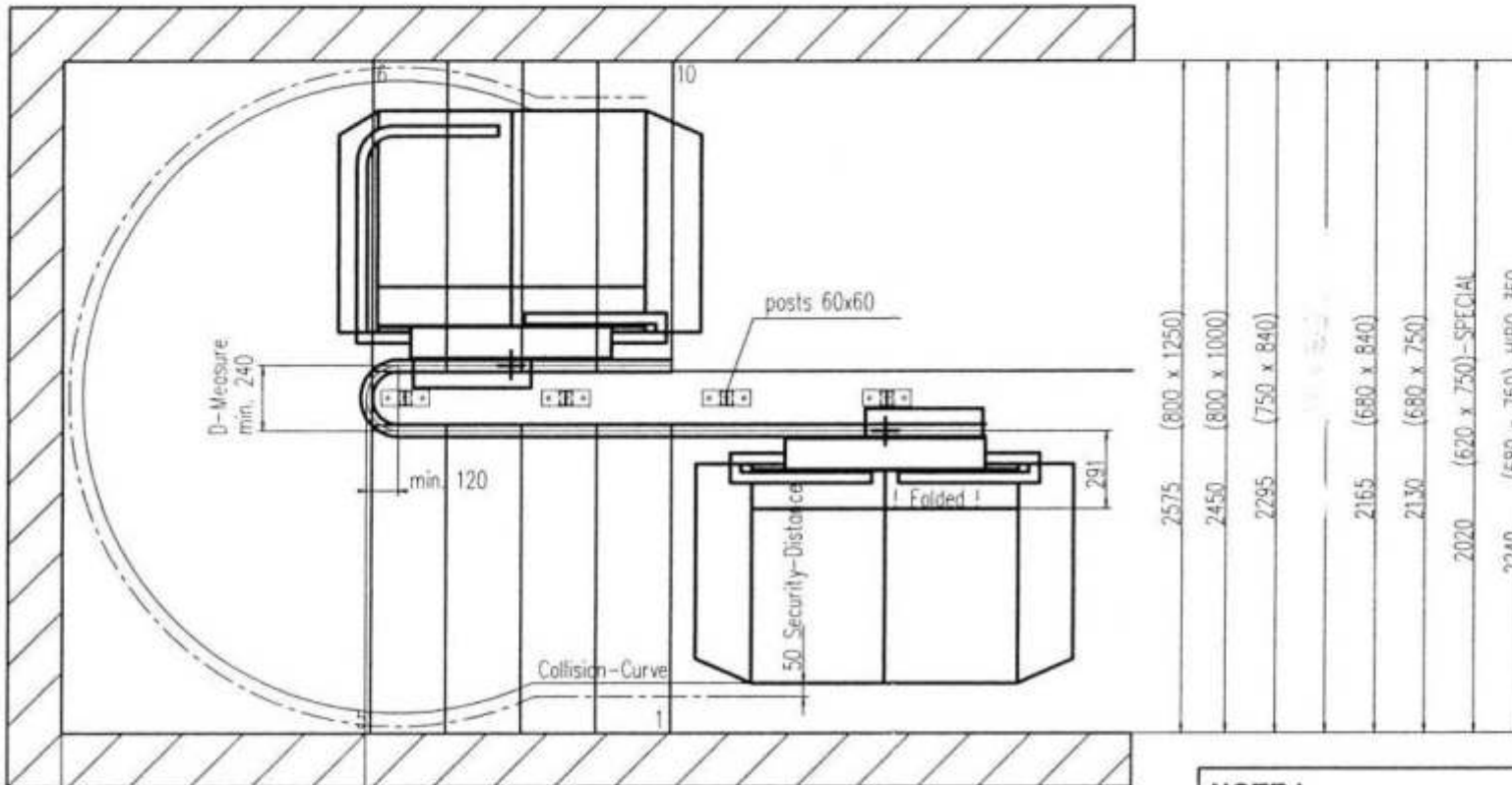
drive position



folded position



				Maßstab:		<b>HIRO LIFT</b>
				Gewicht:		
				<b>Swivel track HIRO 160 / 180</b>		<b>HIRO LIFT Bielefeld</b>
		Datum	Name	Soch-Nr.: <b>18336_E/G3</b>		
		Bearb.	21.01.05			
		Gepr.				
		Zeichn.-Nr.:				Blatt
Zust.	Anderung	Datum	Name			Bl.



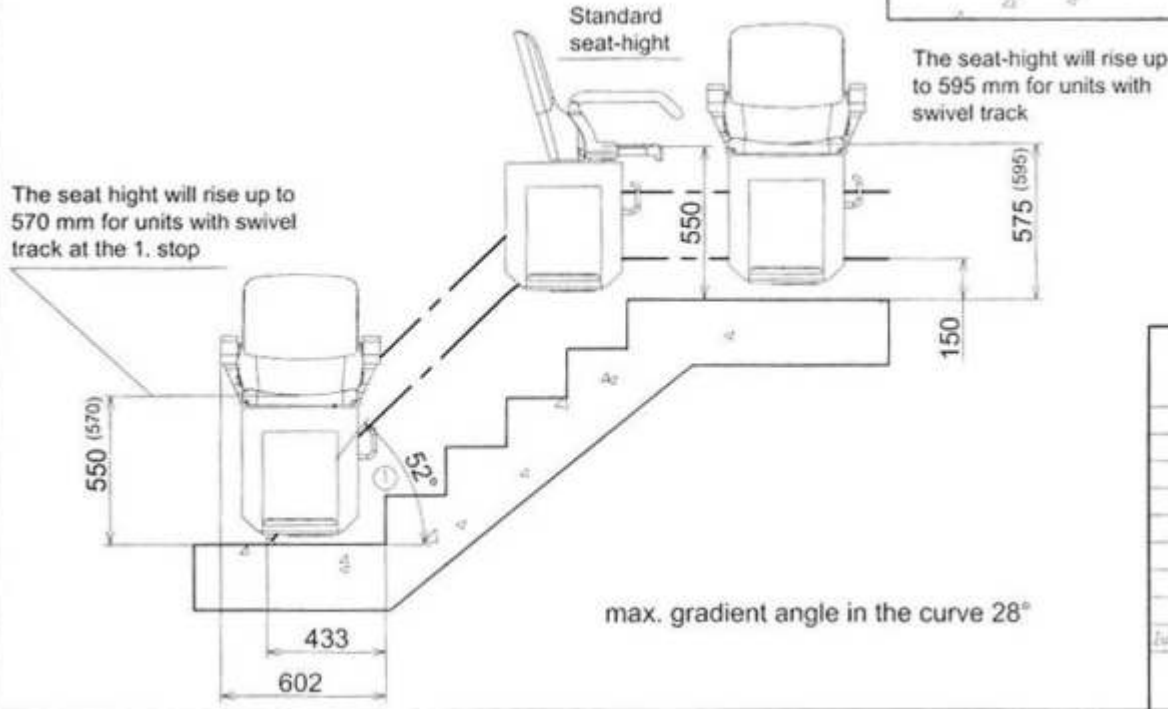
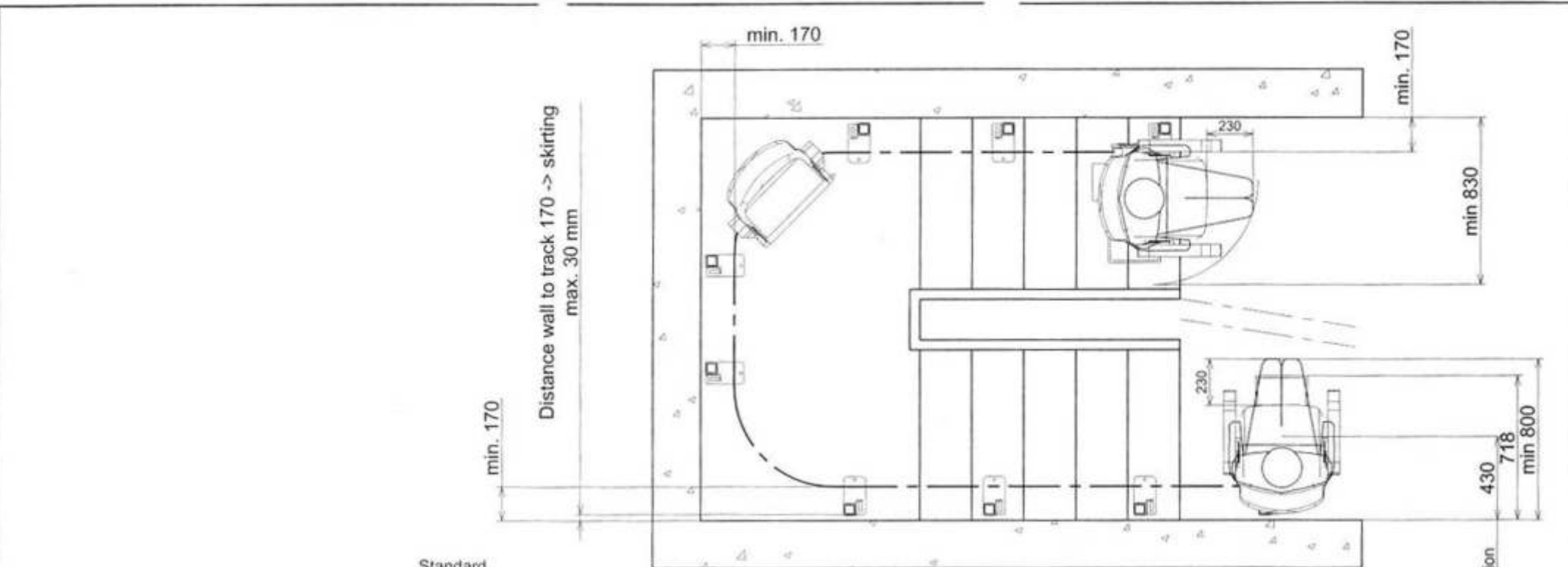
2575	(800 x 1250)
2450	(800 x 1000)
2295	(750 x 840)
2165	(680 x 840)
2130	(680 x 750)
2020	(620 x 750)-SPECIAL
2240	(680 x 750)-HIRO 360

1170	(800 x 1250)
1105	(800 x 1000)
1030	(750 x 840)
965	(680 x 840)
945	(680 x 750)
890	(620 x 750)-SPECIAL
1000	(680 x 750)-HIRO 360

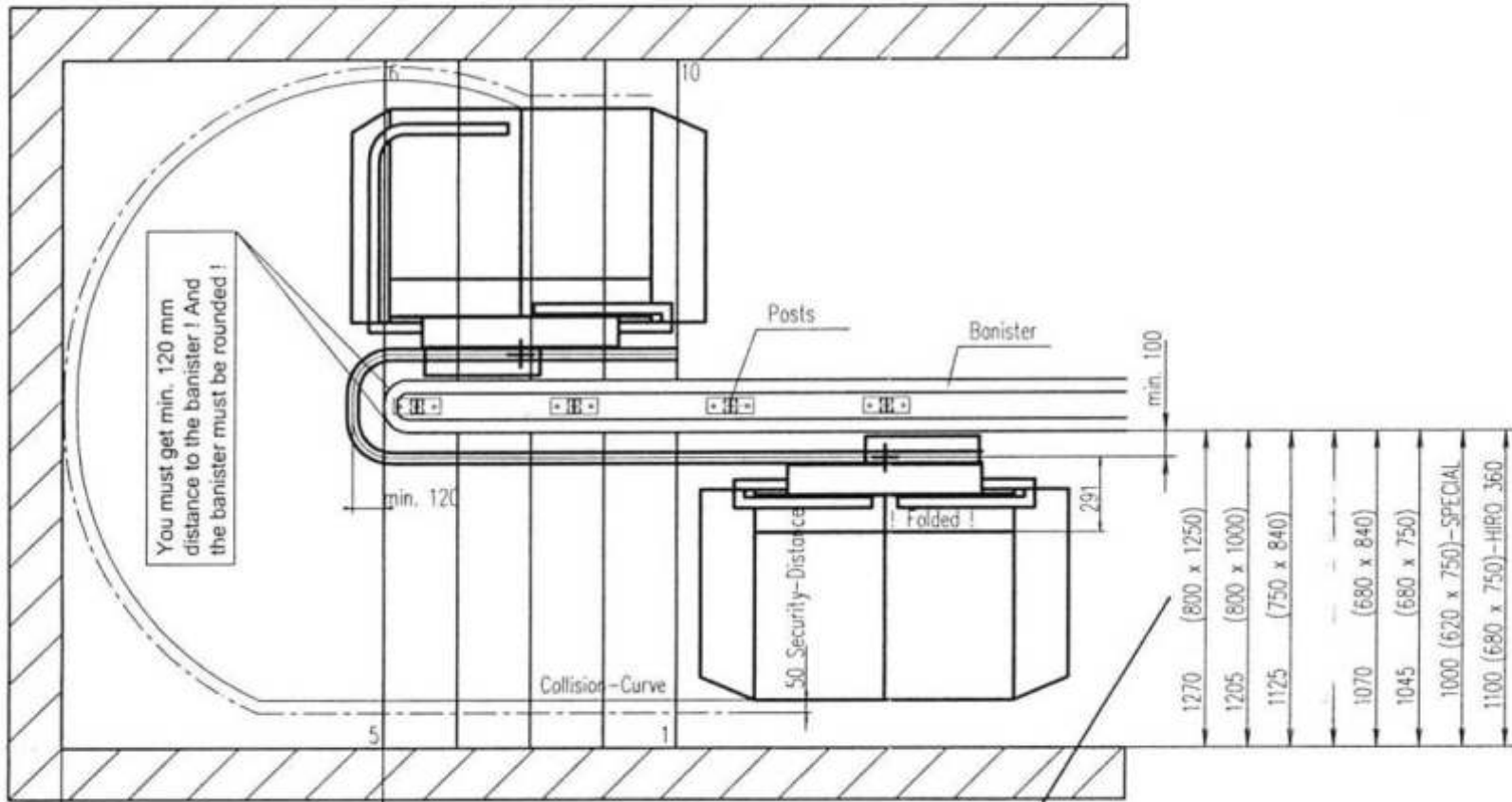
**NOTE !**  
 You have to assign 80 mm more for a HIRO 370 platform as by HIRO 320-platform sizes !

**NOTE !**  
 You have to assign 40 mm more for a HIRO 370 platform for each stair-flight-side as by HIRO 320-platform sizes !

				<b>HIRO 320/360/370</b>		scale	<b>1 : 20</b>
						weight	
				<b>Min. Staircase-Measures For Post-Fastening</b>			
		date	name		<b>HIRO LIFT</b> Bielefeld, Germany		
		drawn by	Beckmann				
		approved			art-No. <b>INTERIOR</b>		
		eng. No.	<b>Plattf1/G3</b>				
No.	changes	date	name		class-No.		
		order-No.			<b>1</b>		
					<b>1</b>		



				1 : 20	
<b>HIRO 180</b>				<b>HIRO LIFT</b> Bielefeld	
		Datum		Name	
		Bearb.		Wolterberg	
		Gepr.		Zeichen-Nr.	
max. track angle 52°		24.04.04		17513-E/G/3	
Zust.		Änderung		Datum	
				1	
				1	



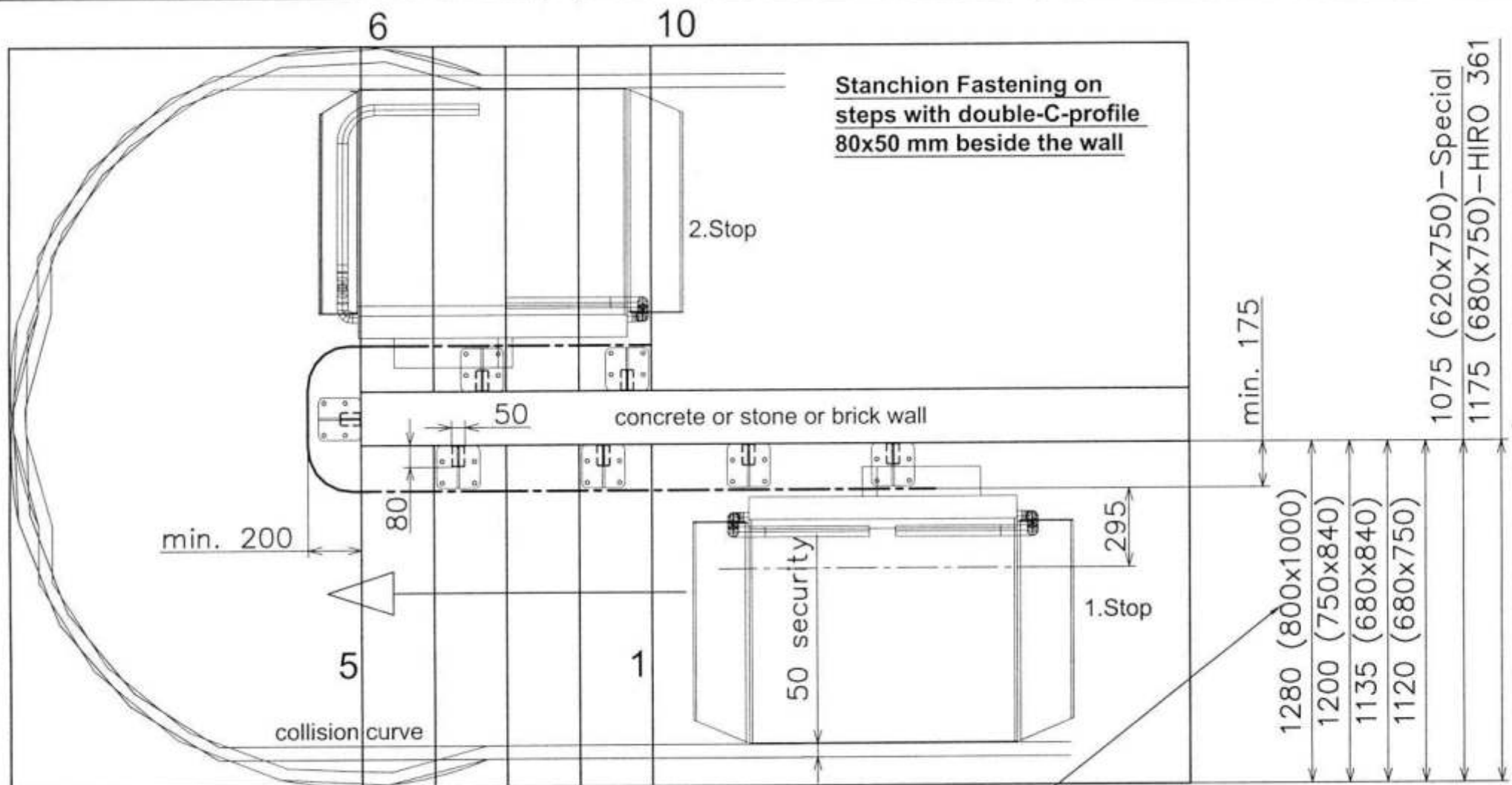
1290	(800 x 1250)
1225	(800 x 1000)
1145	(750 x 840)
1080	(680 x 840)
1065	(680 x 750)
1010	(620 x 750)-SPECIAL
1120	(680 x 750)-HIRO 360

1270	(800 x 1250)
1205	(800 x 1000)
1125	(750 x 840)
1070	(680 x 840)
1045	(680 x 750)
1000	(620 x 750)-SPECIAL
1100	(680 x 750)-HIRO 360

**NOTE !**

You have to assign 40 mm more for a HIRO 370 platform for each stair-flight-side as by HIRO 320-platform sizes !

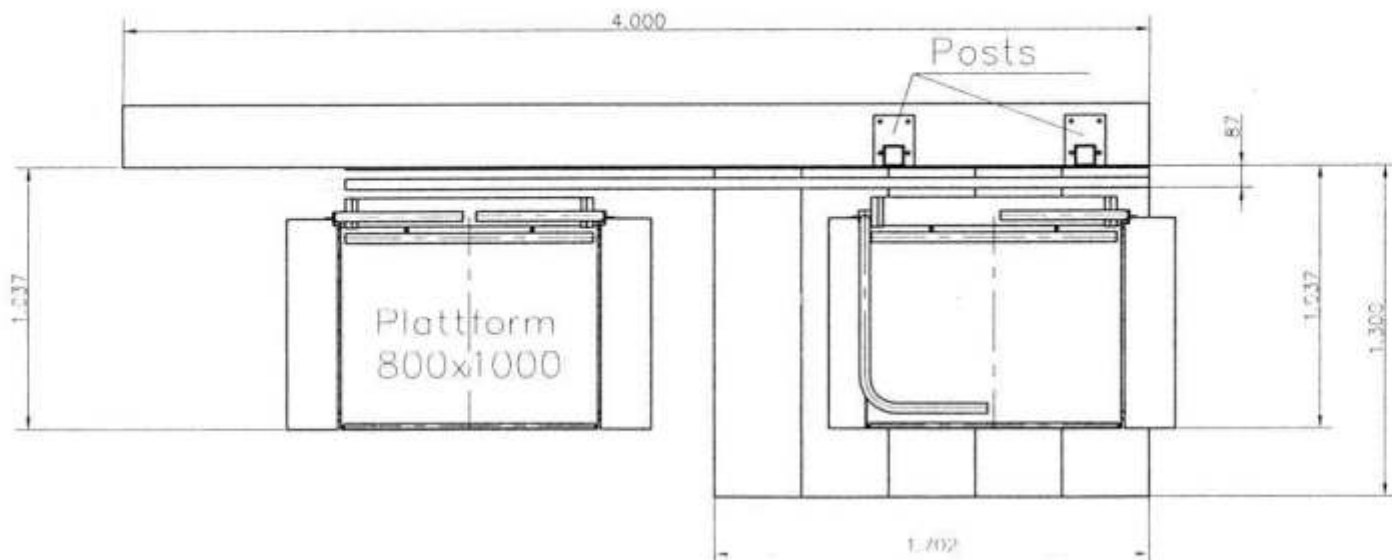
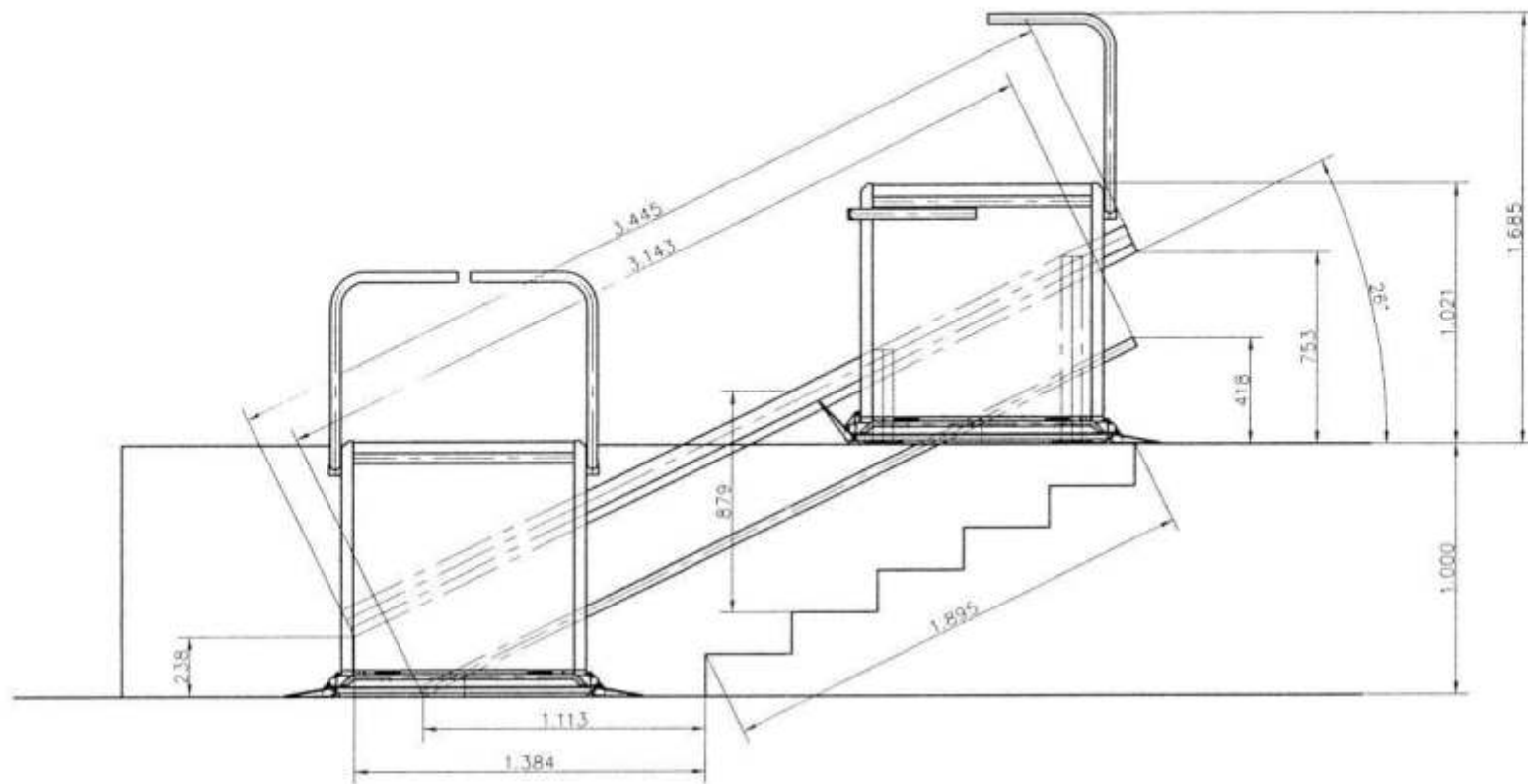
		<b>HIRO 320/360/370</b>		scale: <b>1 : 20</b>
		<b>Min. Staircase-Measures For Post-Fastening+Banister inside</b>		<b>HIRO IFT</b>
		HIRO LIFT Bielefeld, Germany		
		date: 12.01.05	name: Beckmann	<b>Plattf3/G3</b>
		approved:		
				art-no: <b>INTERIOR</b>
				1
				1



**NOTE !**  
 You have to assign 40 mm more for a HIRO 370 platform for each stair-flight-side as by HIRO 320-platform sizes !

- ← 1305 (800x1000)
- ← 1225 (750x840)
- ← 1160 (680x840)
- ← 1145 (680x750)
- ← 1100 (620x750) - Special
- ← 1200 (680x750) - HIRO 361

HIRO 320-360-370				Side	1 : 15
				Height	
<b>Min. Staircase Measurement for Stanchion + Wall Fastening</b>					
		Date	Name	HIRO LIFT Bielefeld	
		23.11.2005	Business		
		Maker	HIRO LIFT		
		Approved			
		Drawing-Nr.	Platform 3/G2		Business-Nr.
Project	Change	Date	Name	Interior order	
		Construction-Nr.:			
				Page	1
				Page	1



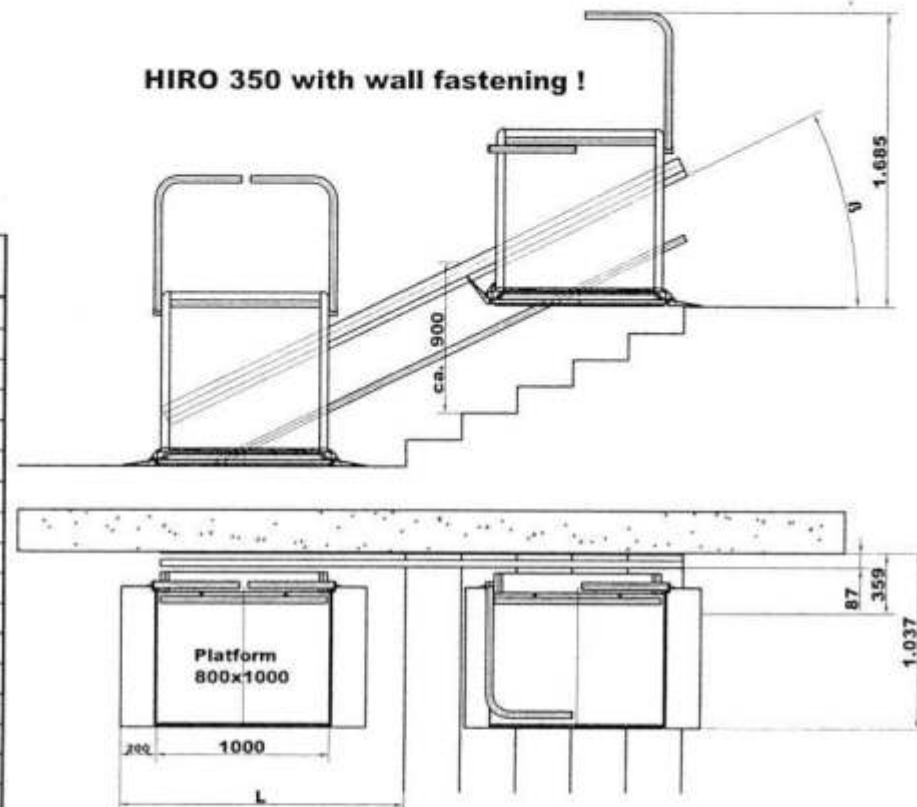
				Scale: 1 : 10	
				Level:	
				Wheel-Chair-Platform-Lift	
				HRO 350 LEFT	
		Date:	Name:	HRO LIFT	
		11.05.99	Winkel	West Germany	
		17736 J/00	024036-S-3200.7	1	

**This chart is only for platform 800 x 1000 mm !**

Höhe Stufe 1 Steigung	100	125	150	155	160	165	170	175	180	190	200
18°	1728	1805	1882	1897	1912	1928	1943	1959	1974	2005	2036
19°	1710	1783	1856	1870	1885	1899	1914	1928	1943	1972	2001
20°	1695	1763	1832	1846	1860	1873	1887	1901	1915	1942	1969
21°	1681	1746	1811	1824	1837	1850	1863	1876	1889	1915	1941
22°	1668	1729	1791	1804	1816	1828	1841	1853	1866	1890	1915
23°	1656	1714	1773	1785	1797	1809	1820	1832	1844	1868	1891
24°	1645	1701	1757	1768	1779	1791	1802	1813	1824	1847	1869
25°	1634	1688	1742	1752	1763	1774	1785	1795	1806	1827	1849
26°	1625	1676	1728	1738	1748	1758	1769	1779	1789	1810	1830
27°	1616	1665	1714	1724	1734	1744	1754	1763	1773	1793	1813
28°	1608	1655	1702	1712	1721	1730	1740	1749	1759	1777	1796
29°	1600	1646	1691	1700	1709	1718	1727	1736	1745	1763	1781
30°	1593	1637	1680	1688	1697	1706	1714	1723	1732	1749	1766
31°	1586	1628	1670	1678	1686	1695	1703	1711	1720	1736	1753
32°	1580	1620	1660	1668	1676	1684	1692	1700	1708	1724	1740
33°	1574	1612	1651	1659	1666	1674	1682	1689	1697	1713	1728
34°	1568	1605	1642	1650	1657	1665	1672	1679	1687	1702	1717
35°	1563	1599	1634	1641	1649	1656	1663	1670	1677	1691	1706
36°	1558	1592	1626	1633	1640	1647	1654	1661	1668	1682	1695
37°	1553	1586	1619	1626	1632	1639	1646	1652	1659	1672	1685
38°	1548	1580	1612	1618	1625	1631	1638	1644	1650	1663	1676
39°	1543	1574	1605	1611	1618	1624	1630	1636	1642	1655	1667
40°	1539	1569	1599	1605	1611	1617	1623	1629	1635	1646	1658
41°	1535	1564	1593	1598	1604	1610	1616	1621	1627	1639	1650
42°	1531	1559	1587	1592	1598	1603	1609	1614	1620	1631	1642
43°	1527	1554	1581	1586	1592	1597	1602	1608	1613	1624	1634
44°	1524	1549	1575	1581	1586	1591	1596	1601	1606	1617	1627
45°	1520	1545	1570	1575	1580	1585	1590	1595	1600	1610	1620

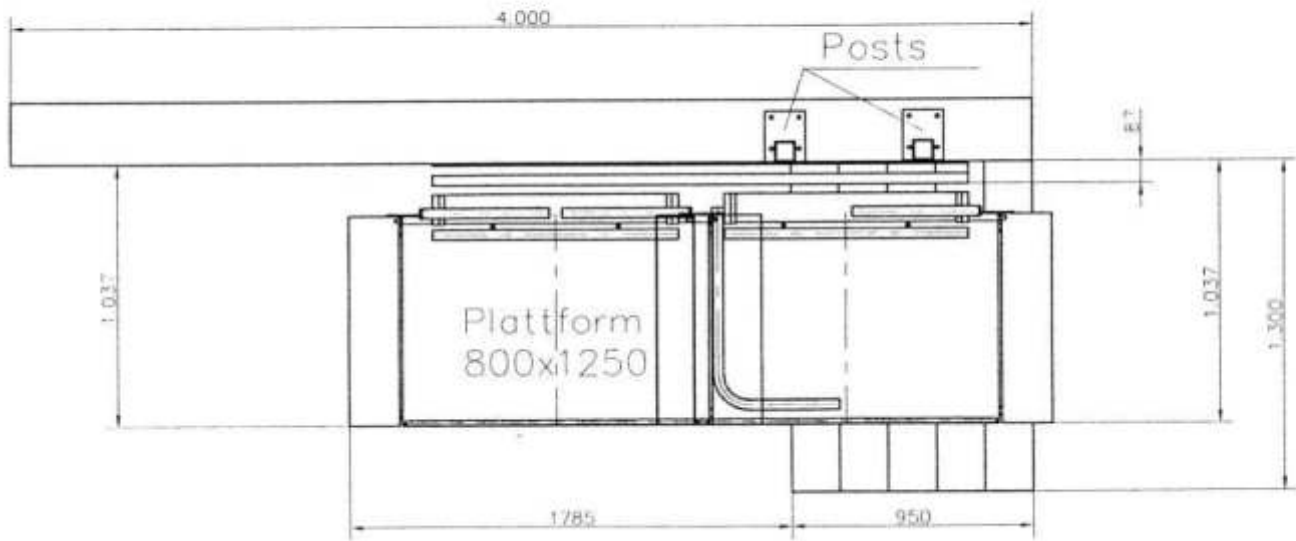
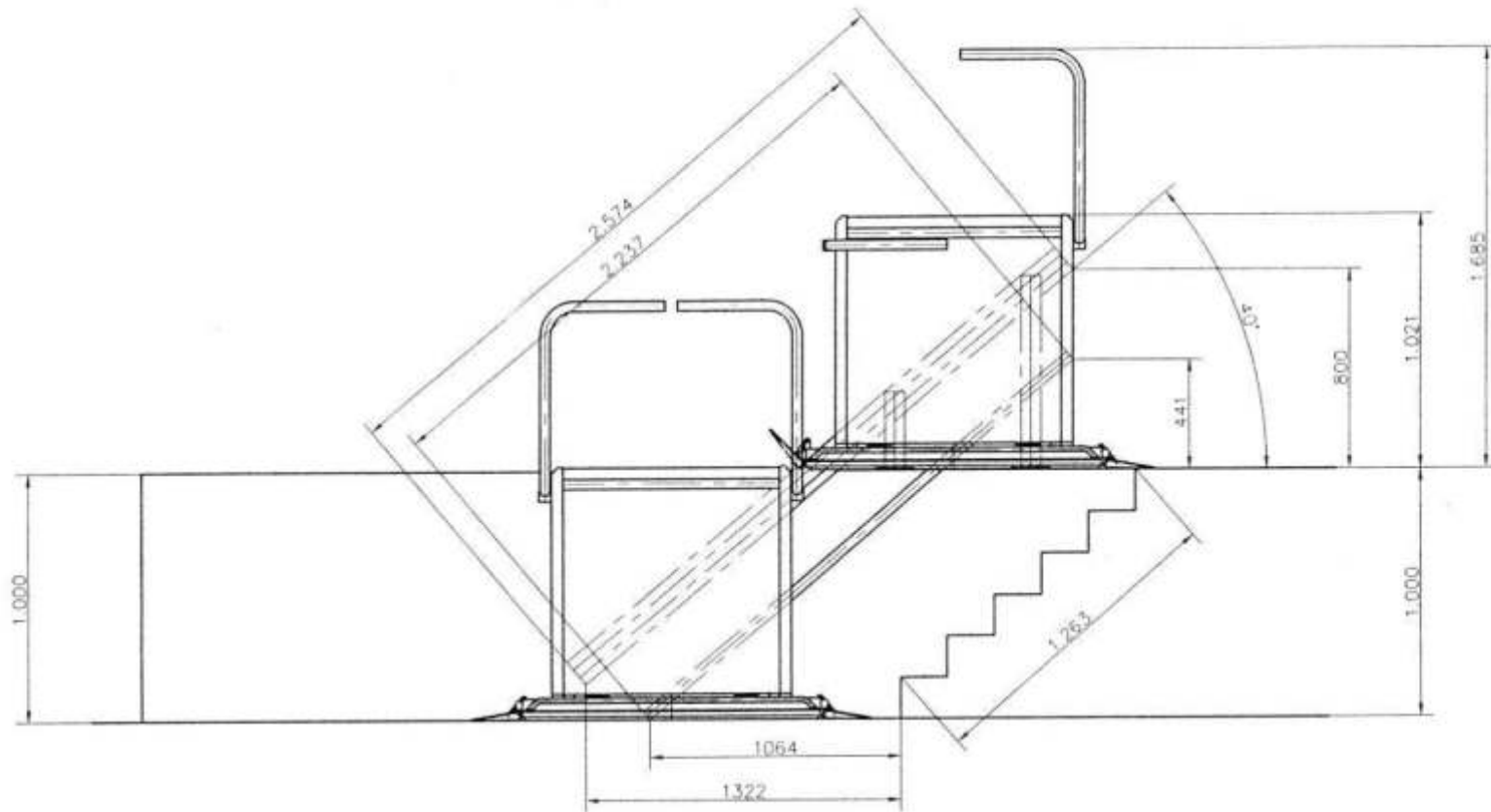
**For platform 800 x 1250 mm is the L-Measure  
250 mm longer than for platform 800 x 1000 mm !**

**HIRO 350 with wall fastening !**



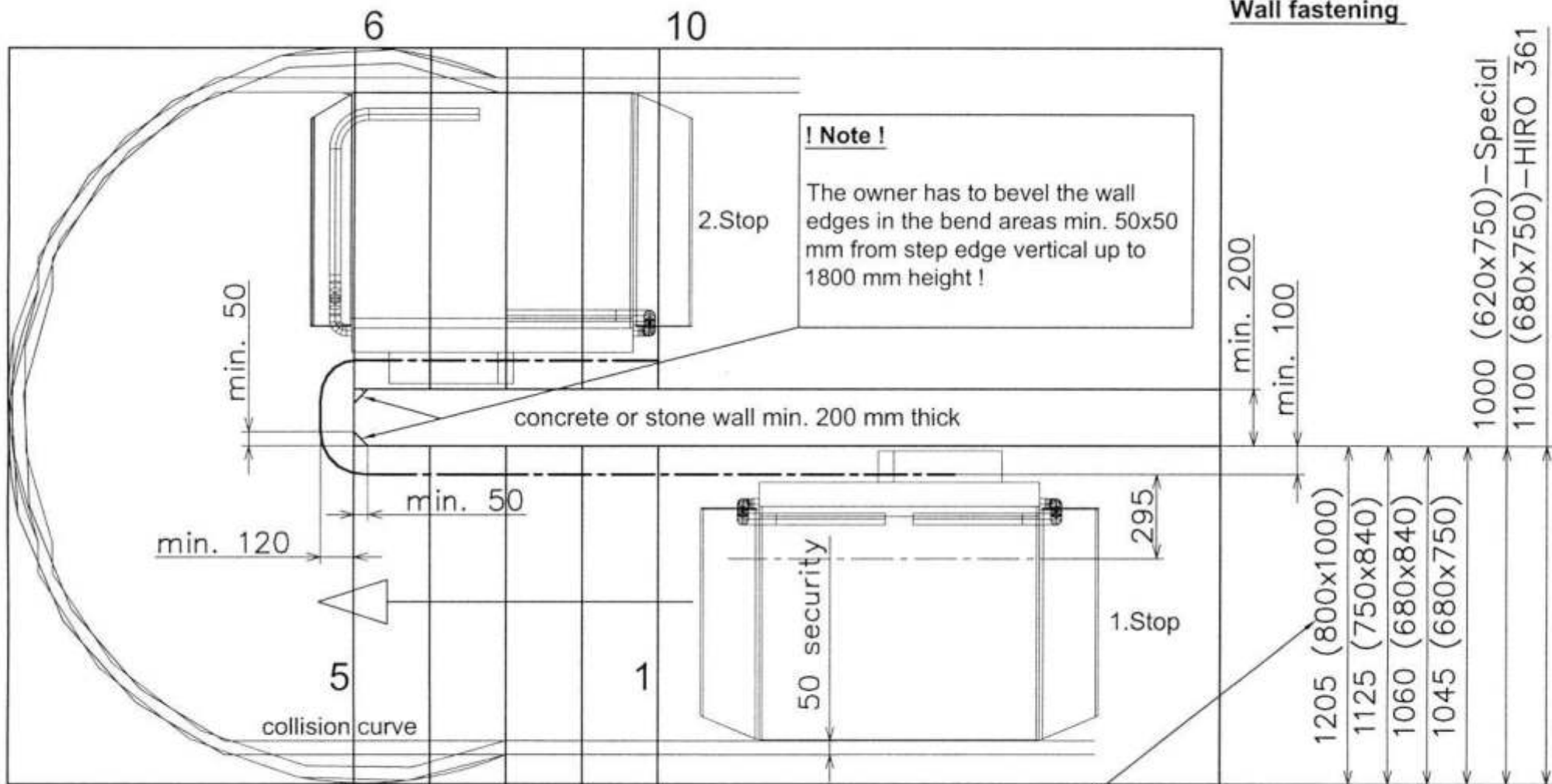
**The L-Measure is less 100 mm for platform with side entry ramp !**  
**The L-Measure is 100 mm longer for platform with 300 mm valley ramp !**

				Scale 1 : 50	
				Wheel-Chair-Platform-Lift	
				HIRO 350 LEFT	
				HIRO LEFT	
				West Germany	
				17736_06/00	
				024036-S-3200.T	
				1	



				Scale: 1:10	
				Title	
				Wheel-Chair-Platform-Lift HRO 350 LEFT	
				HRO LIFT West Germany	
				17736_2/00	
				024036-S-3200.T	
				1	



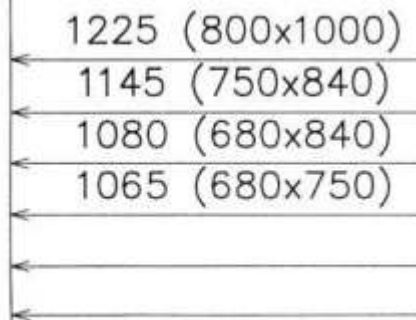
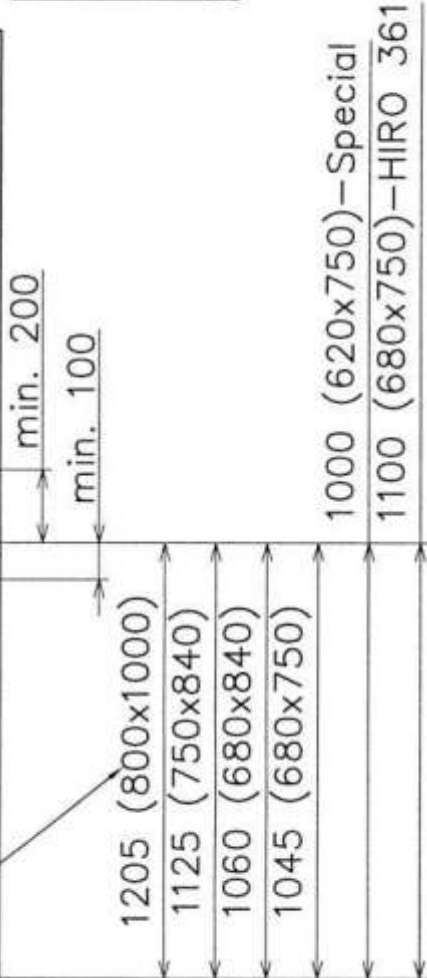


**! Note !**  
 The owner has to bevel the wall edges in the bend areas min. 50x50 mm from step edge vertical up to 1800 mm height !

concrete or stone wall min. 200 mm thick

**NOTE !**  
 You have to assign 40 mm more for a HIRO 370 platform for each stair-flight-side as by HIRO 320-platform sizes !

**Wall fastening**

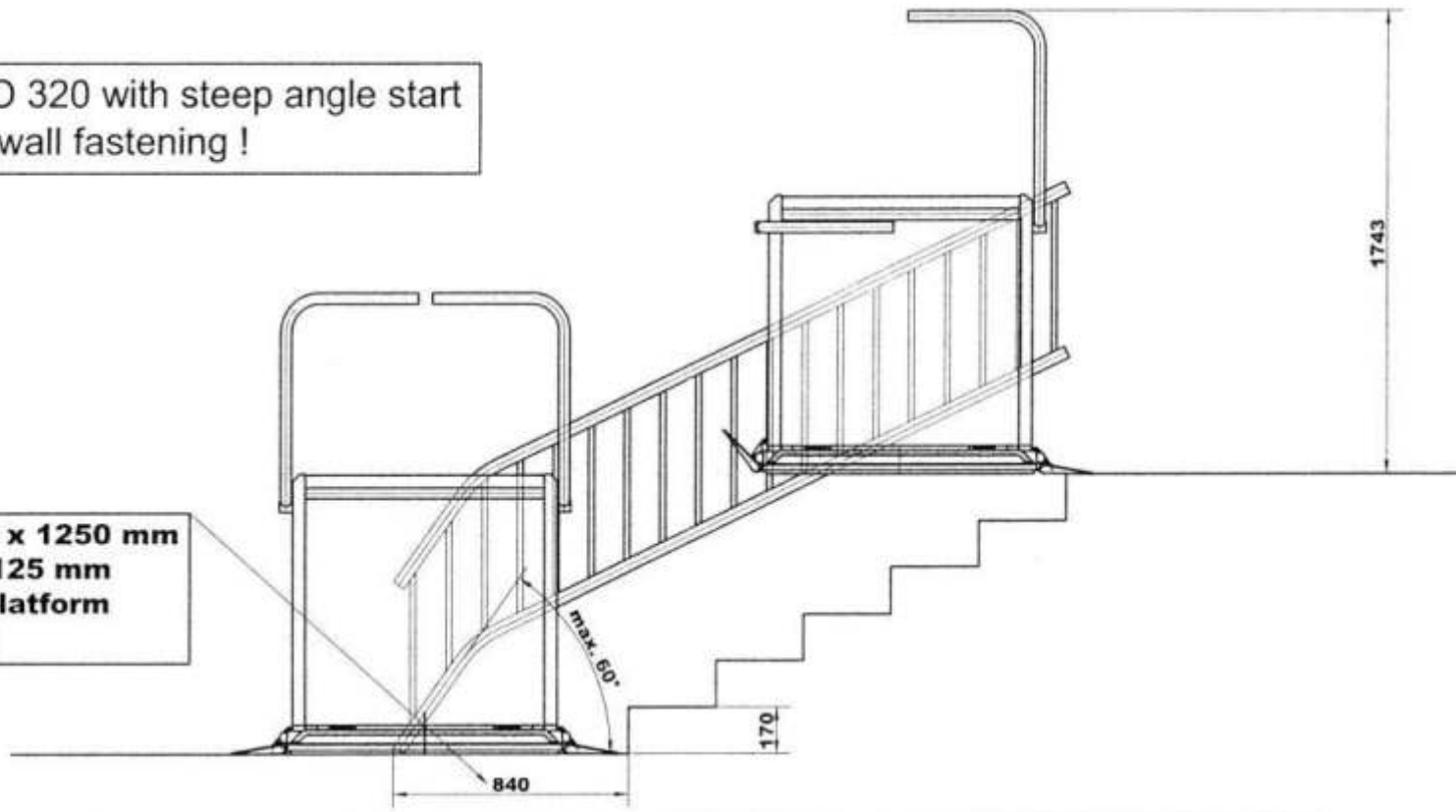


		HIRO 320-360-370		Scale	1 : 10
		Min. Staircase Measurement for Wall Fastening		Weight	
Writer	Date	Name	HIRO LIFT Bielefeld	Page	1
Approved	23.01.2005	Backmann			
Drawing-Nr.		Business-Nr.		Page	1
Position	Designing	Date	Platform 2/G2	Interior order	
		Construction Nr.			

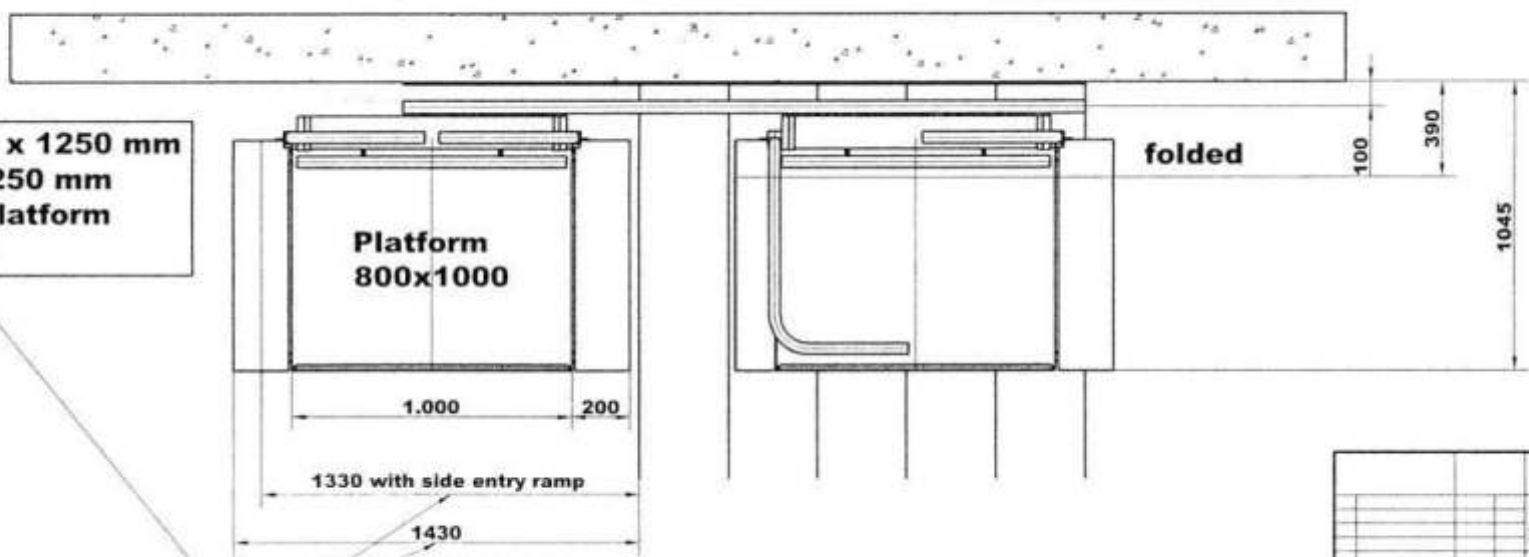


HIRO 320 with steep angle start and wall fastening !

For platform 800 x 1250 mm is this measure 125 mm longer than for platform 800 x 1000 mm !



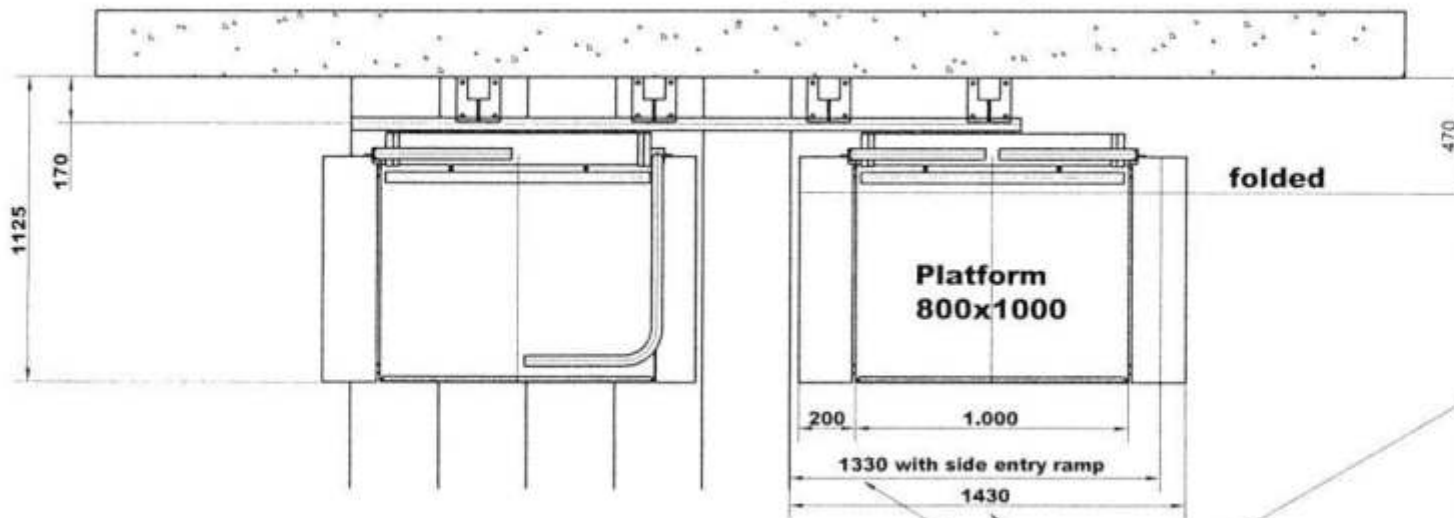
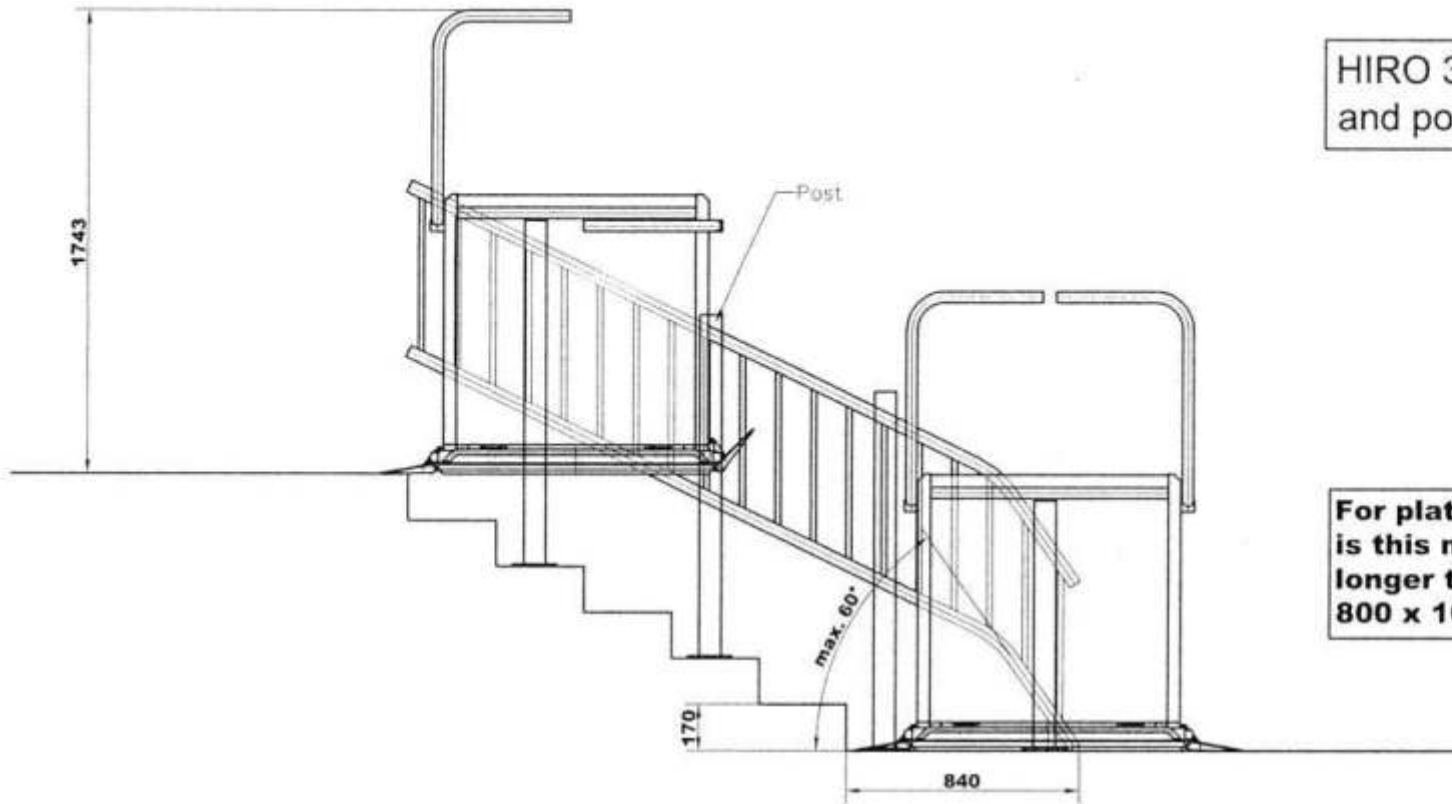
For platform 800 x 1250 mm is this measure 250 mm longer than for platform 800 x 1000 mm !



				Scale: 1:10	
				Date:	
				Wheel-Chair-Platform-Lift	
				HIRO 320 LEFT	
				HIRO LFT	
				West Germany	
				17736_04/00	
				024036-S-3200.T	
				1	

HIRO 320 with steep angle start and post fastening !

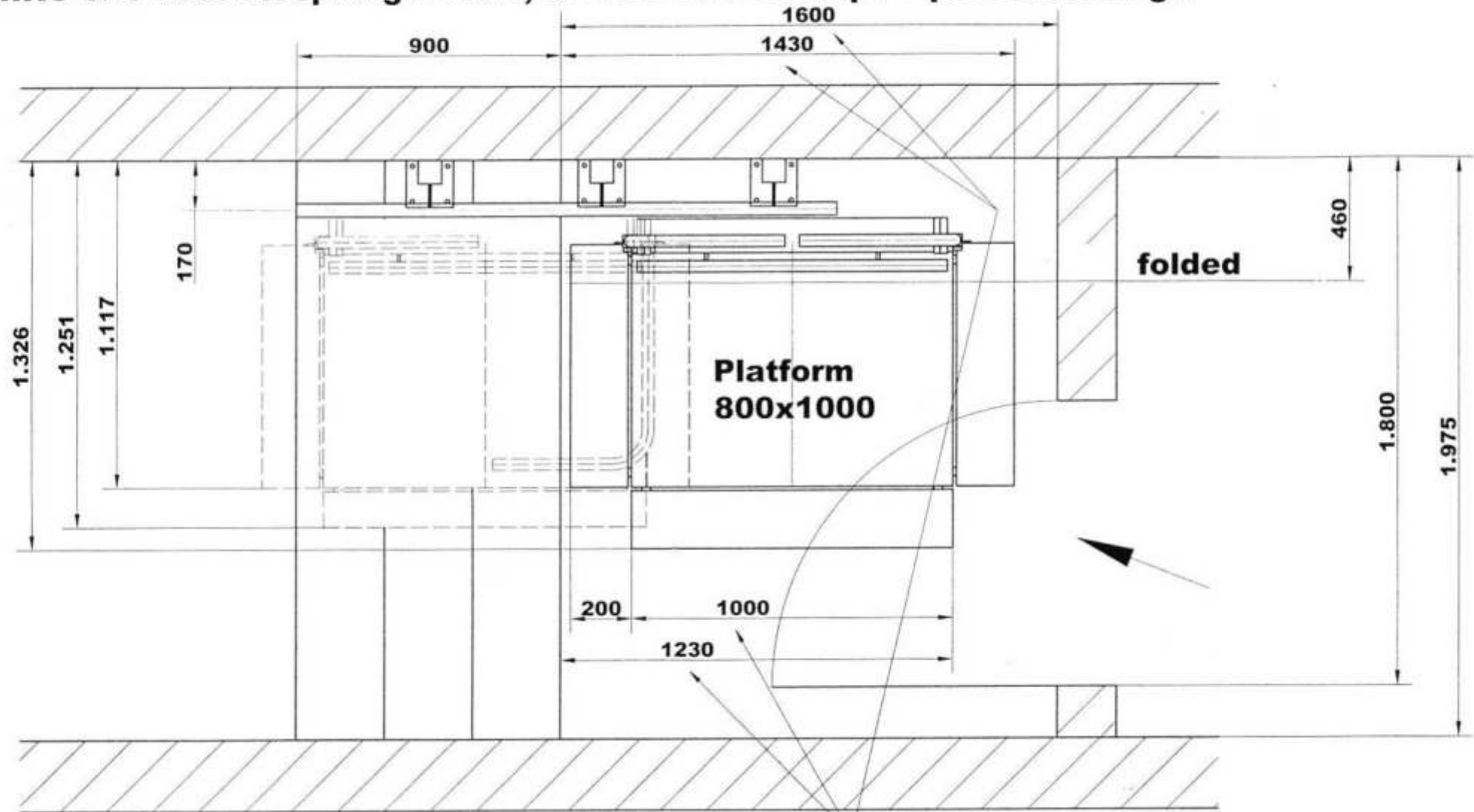
For platform 800 x 1250 mm is this measure 125 mm longer than for platform 800 x 1000 mm !



For platform 800 x 1250 mm is this measure 250 mm longer than for platform 800 x 1000 mm !

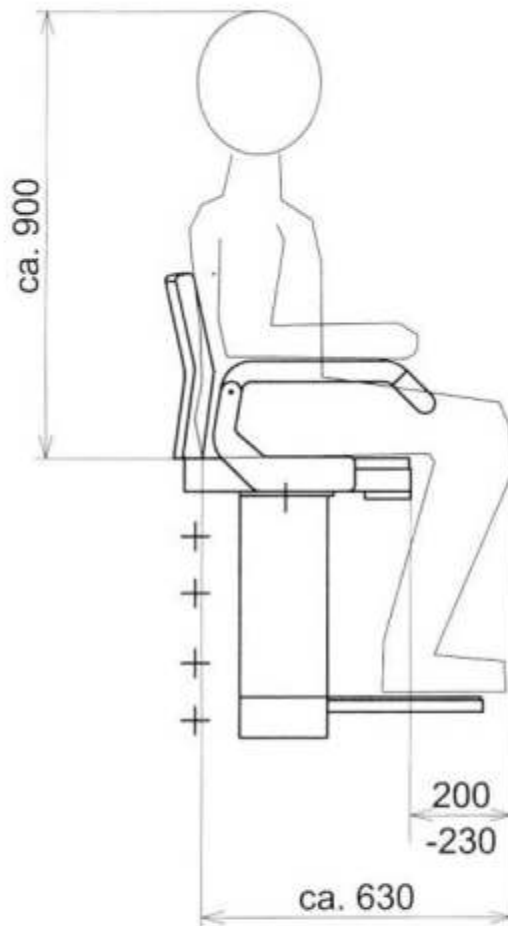
				Scale: 1 : 10	
				Date:	
				<b>Wheel-Chair-Platform-Lift</b> <b>HIRO 320 RIGHT</b>	
				<b>HIRO LIFT</b> West Germany	
Dr.	Author	Client	Project	Order No.	Part No.
				17736_05/03	024036-S-3200.T
					1

# HIRO 320 with steep angle stair., access over 3 ramps + pos. fastening !



**For platform 800 x 1250 mm are these measures 250 mm longer than for platform 800 x 1000 mm !**

				Maßstab: 1:10							
				Gewicht:							
				Wheel-Chair-Platform-Lift HIRO 320 RIGHT							
				HIRO LIFT West Germany							
				<table border="1"> <tr> <th>Datum</th> <th>Name</th> </tr> <tr> <td>Bearb. 15.11.01</td> <td>Wosch</td> </tr> <tr> <td>Gepr.</td> <td></td> </tr> </table>		Datum	Name	Bearb. 15.11.01	Wosch	Gepr.	
Datum	Name										
Bearb. 15.11.01	Wosch										
Gepr.											
Änderung	15.11.01	Wosch	Zeichn.-Nr.:	17735_09/G0	Sach-Nr.:						
Zust.	Änderung	Datum	Name								
					1						
					1						

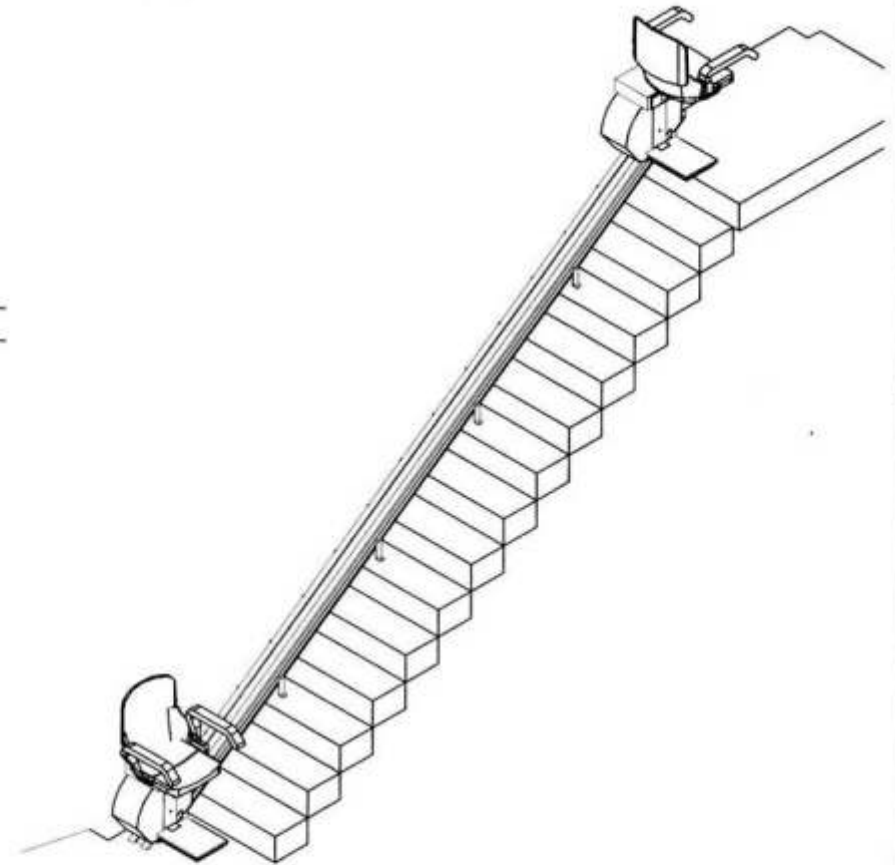
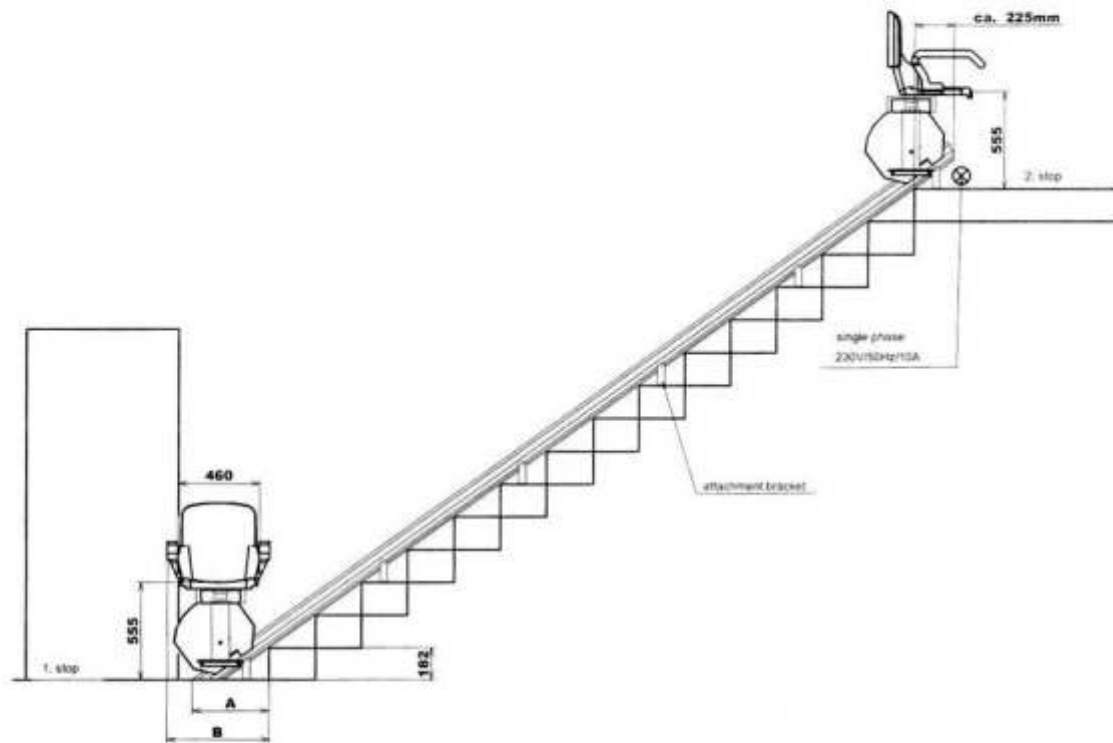


Standard measure  
for a sitting person

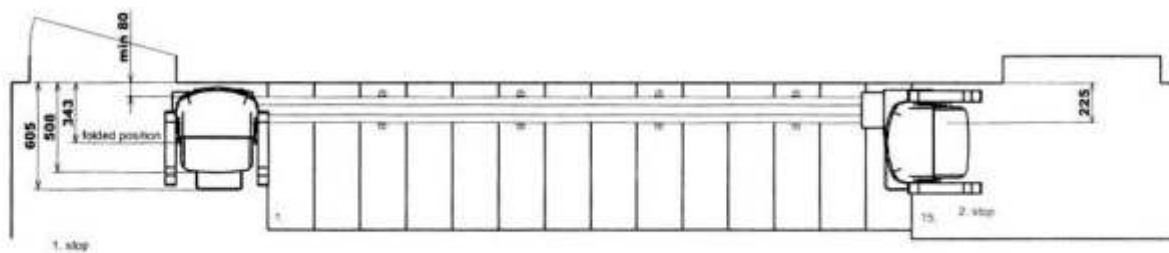
**! Attention !**

A stiff leg need much more space  
for the width of the staircase

Allgemeintoleranzen nach DIN 7168-m-S				Maßstab: 1 : 10	
				Gewicht:	
		Sitting person HIRO 160 / 180			
		Datum: Name		HIRO LIFT	
		Bearb. 24.04.04 Wöllenberg		Bielefeld	
		Gepr.			
		Zeichn./Artikel-Nr.: 17515-E / G3		Zeichn. Art/Format: G3	
Zust.		Änderung		Datum	
Erst für		Drs. durch		Anlagen-Nr.	
				Blatt 1	
				Blätter 1	

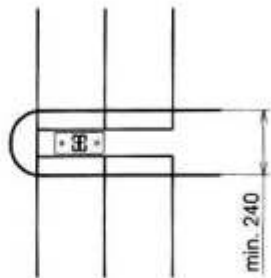


A at 45° = 335mm	A at 32.5° = 481mm	B at 45° = 533 mm	B at 32.5° = 598 mm
A at 42.5° = 355mm	A at 30° = 526mm	B at 42.5° = 542 mm	B at 30° = 619 mm
A at 40° = 381mm	A at 27.5° = 570mm	B at 40° = 553 mm	B at 27.5° = 644 mm
A at 37.5° = 410mm	A at 25° = 630mm	B at 37.5° = 566 mm	B at 25° = 674 mm
A at 35° = 445mm		B at 35° = 581 mm	

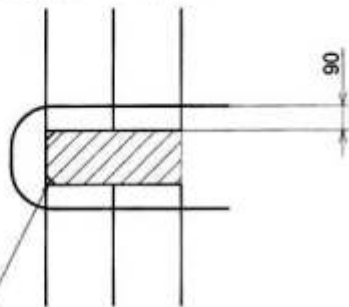


Allgemeinwissen nach DIN 1163-m-1		Modell: 1:20	
		Gewicht:	
Chair lift HIRO 150			
Datum: 27.04.04		Name: Wölbersberg	
Techn./Anw.-Nr.		Stieflift	
025738-E		Stieflift	
150		Blatt 2	

Fastening to the post  
without a banister



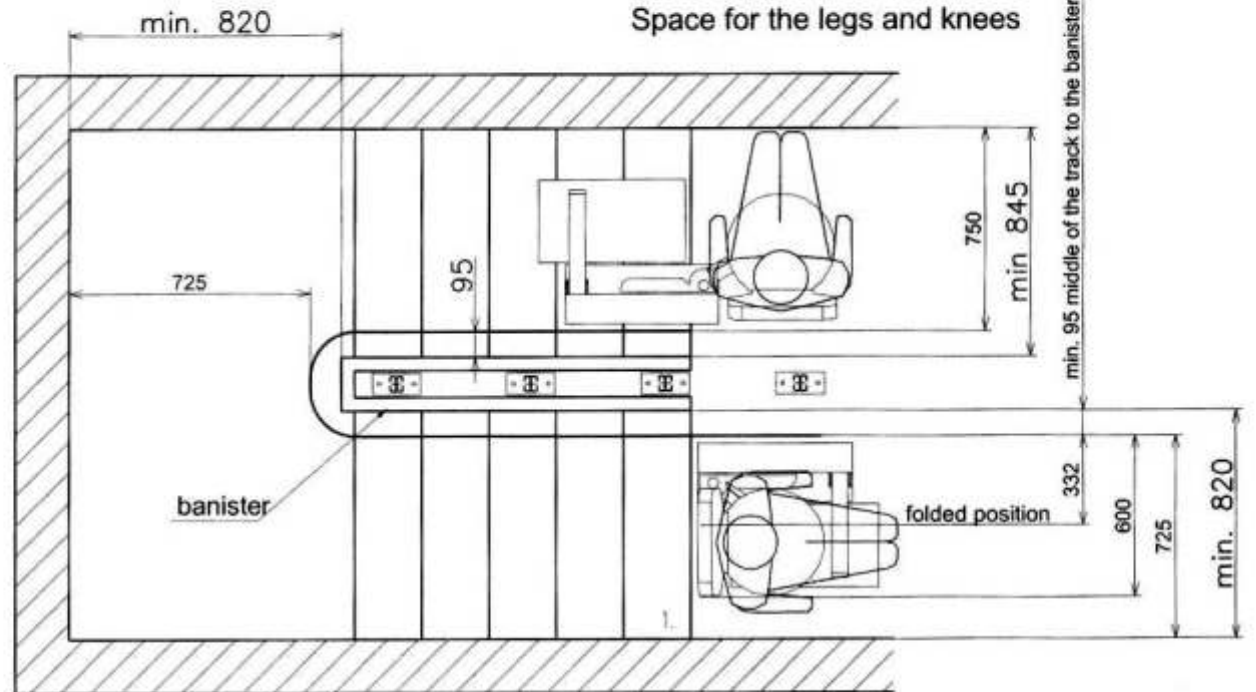
Wallfastening  
without a banister



Walledges may  
have to bevel



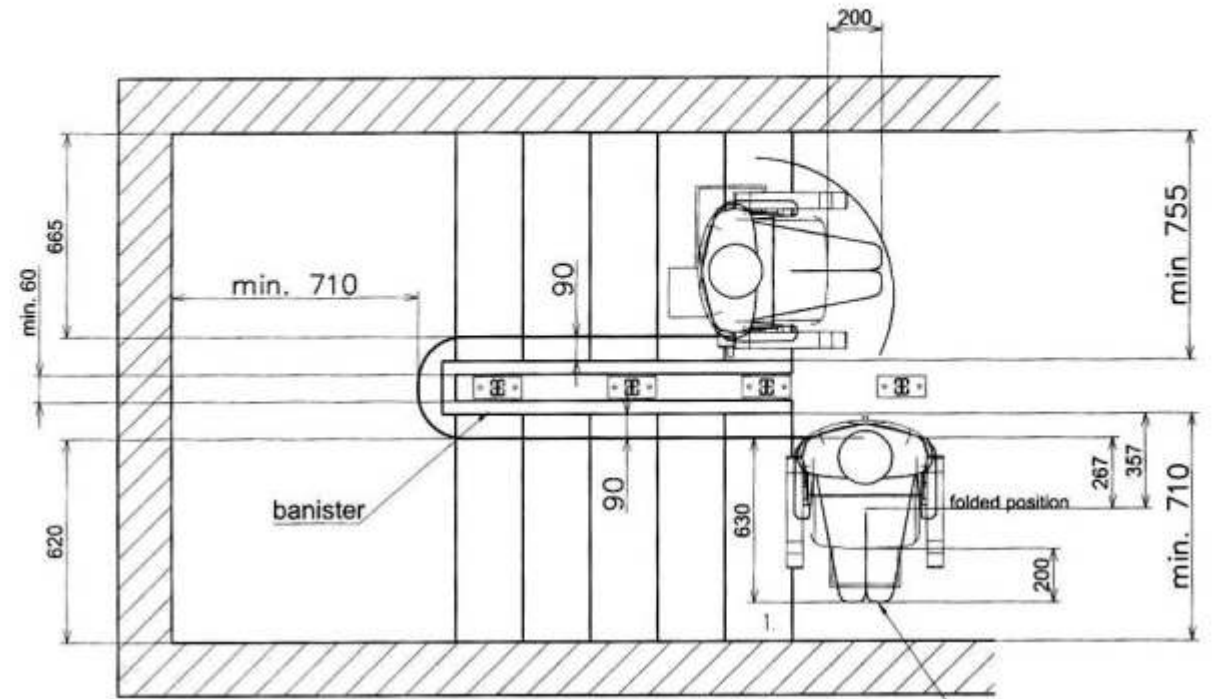
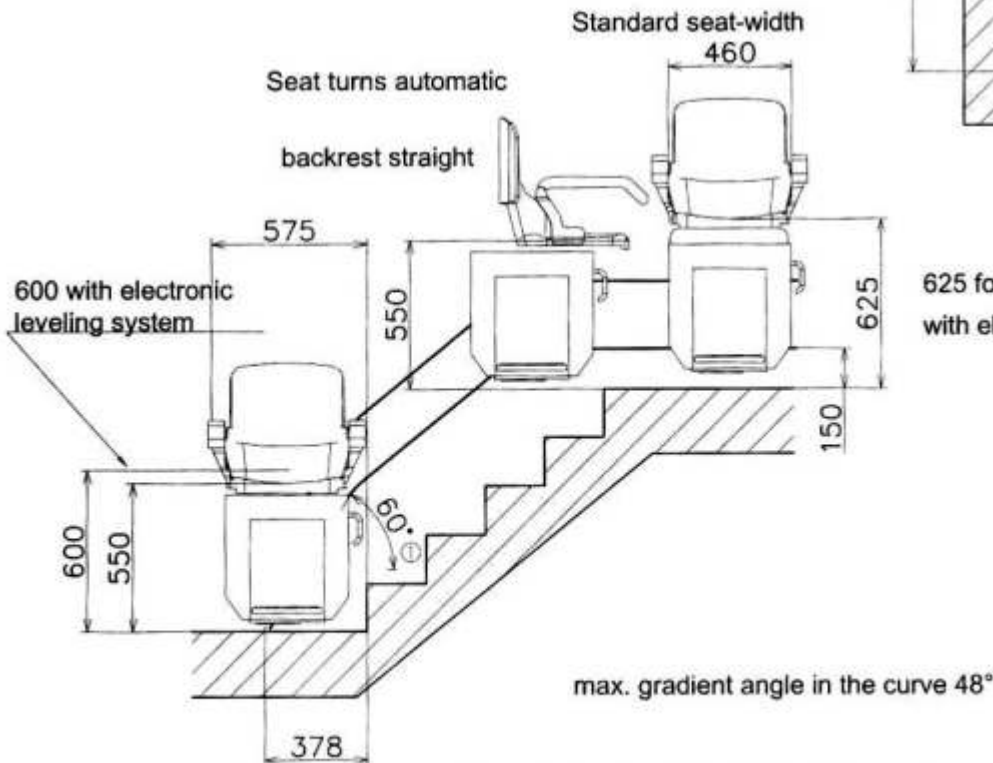
**! Attention !**  
Space for the legs and knees



				Maßstab: 1 : 20		
				Gewicht:		
				HIRO 120		
		Datum	Name	HIRO LIFT Bielefeld		
		Bearb.	30.04.04			Waltenberg
		Gepr.				
		Zeichn.-Nr.		Sach-Nr.:		
		HIRO120-E/G3				
Zust.	Aenderung	Datum	Name			
				1 Blatt		
				1 Bl.		



Posts in the staircase hall (by narrow staircase)  
 track fasten through the banister  
 backrest straight

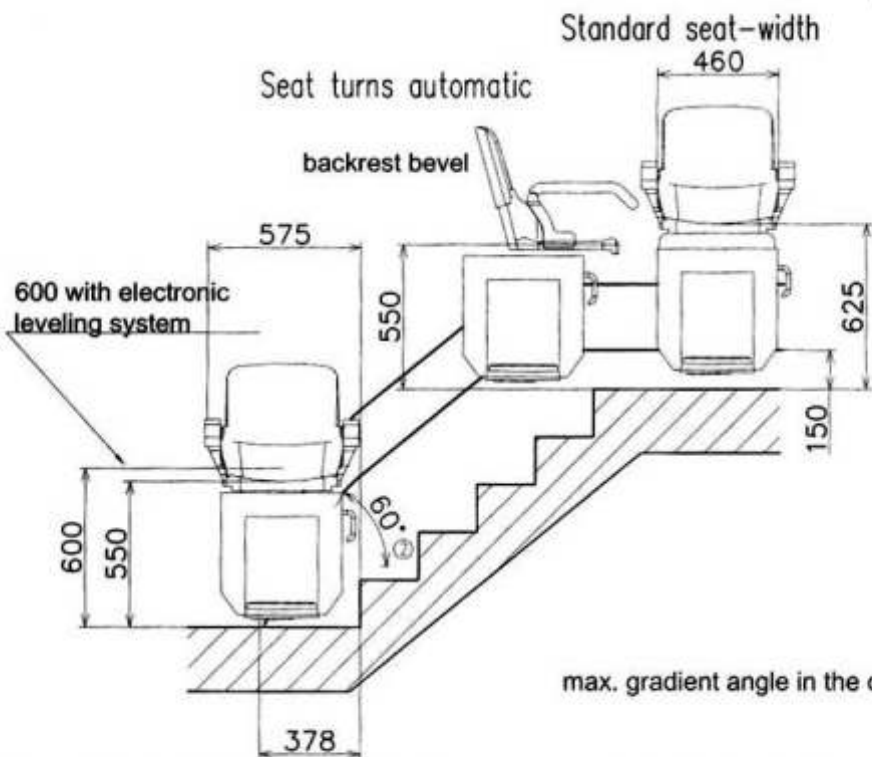
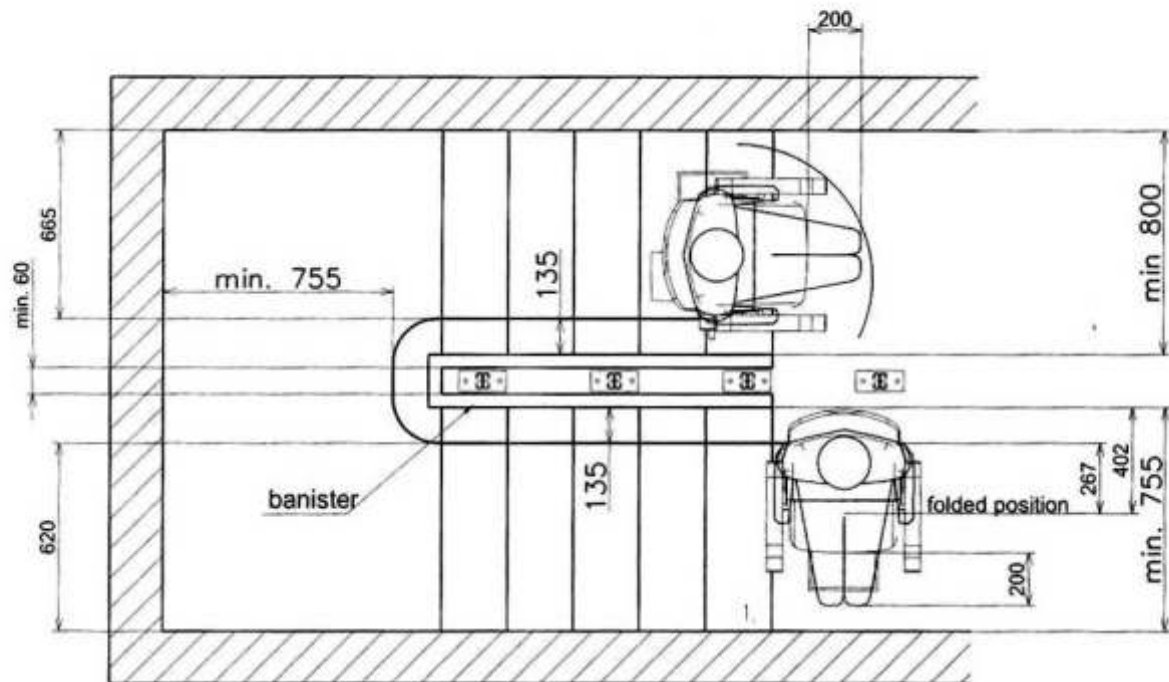


625 for horizontal drive ①  
 with electronic leveling system

				Maßstab: 1 : 20	
				Gewicht:	
				<b>HIRO 160 backrest straight</b> <b>Fastening in the staircase hall</b>	
			Datum	Name	Sach-Nr.: <b>17518-E/G3</b>
2	max. track-angle 60°	24.04.2004	Wa	Bearb. 28.05.99 Gepf. Waltenberg	
1	electronic leveling system	24.04.2004	Wa	Zechn.-Nr.	Blatt <b>1</b>
Zust.	Änderung	Datum	Name		
					Blatt <b>1</b>



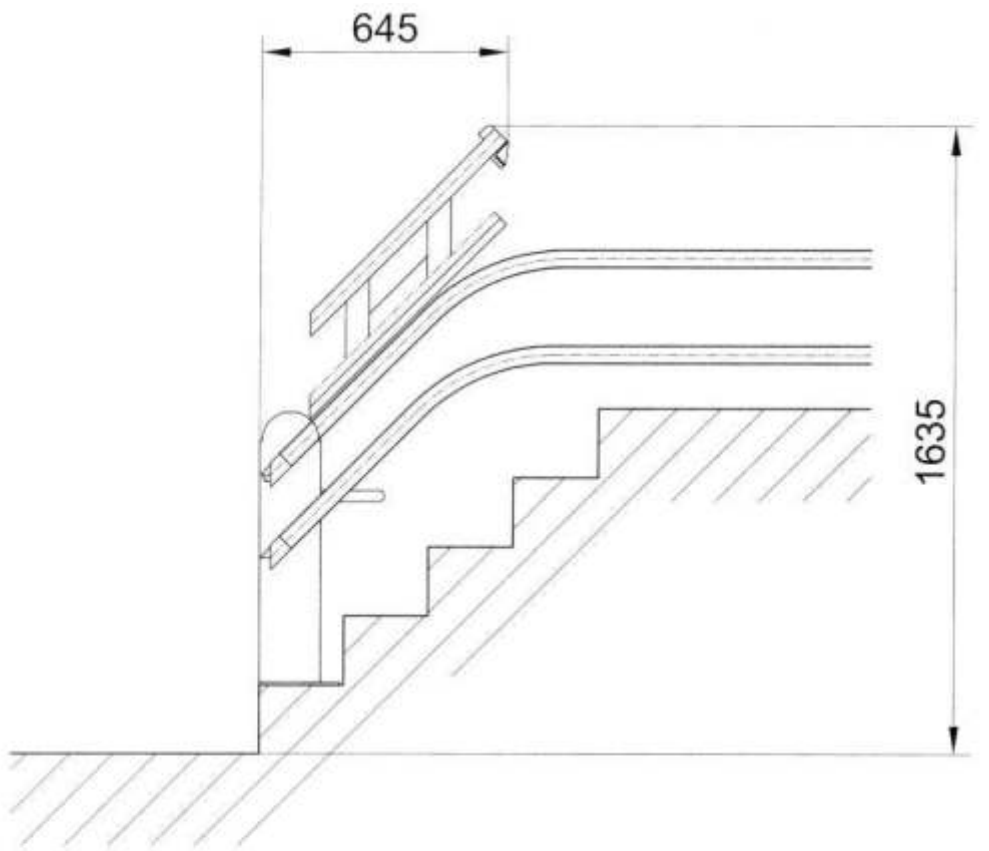
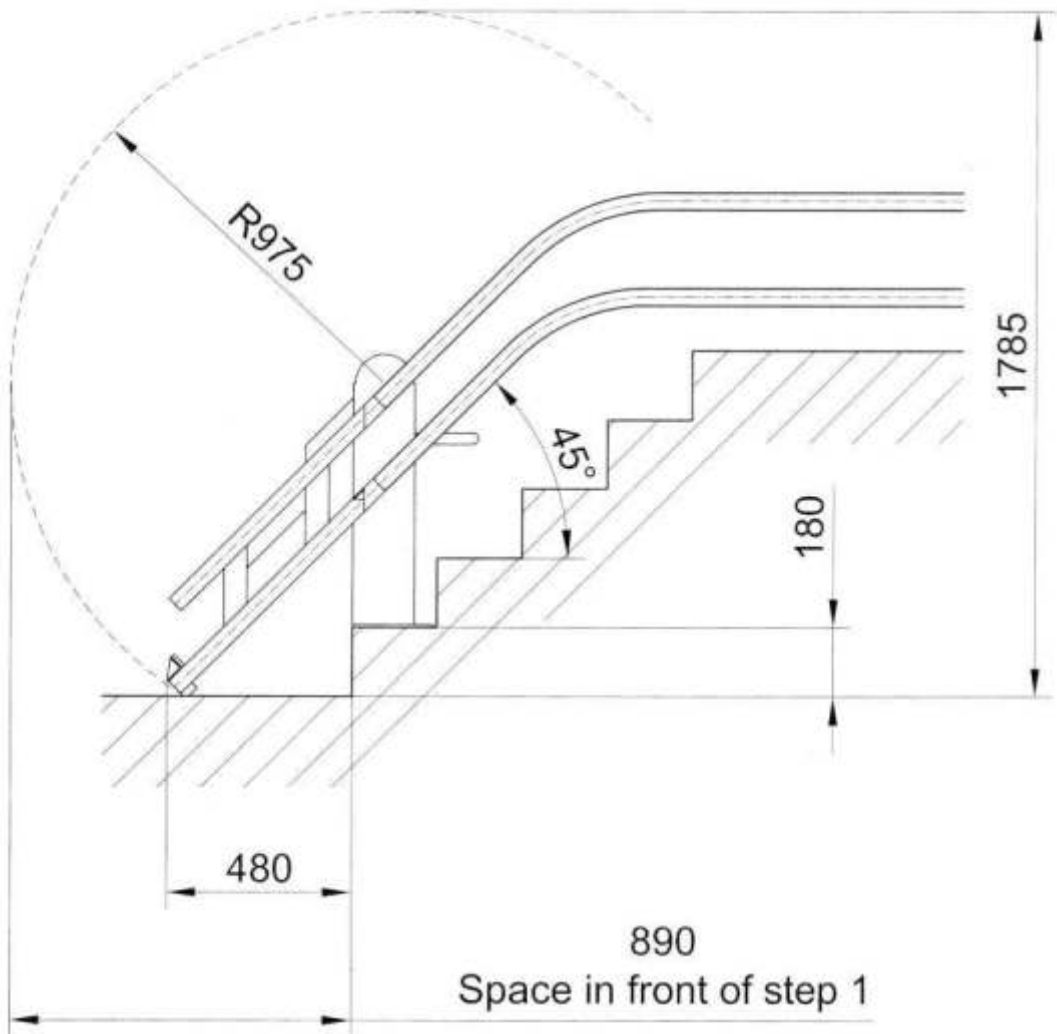
Posts in the staircase hall (by narrow staircase)  
 track fasten through the banister  
 backrest bevel




625 for horizontal drive  
 with electronic leveling system

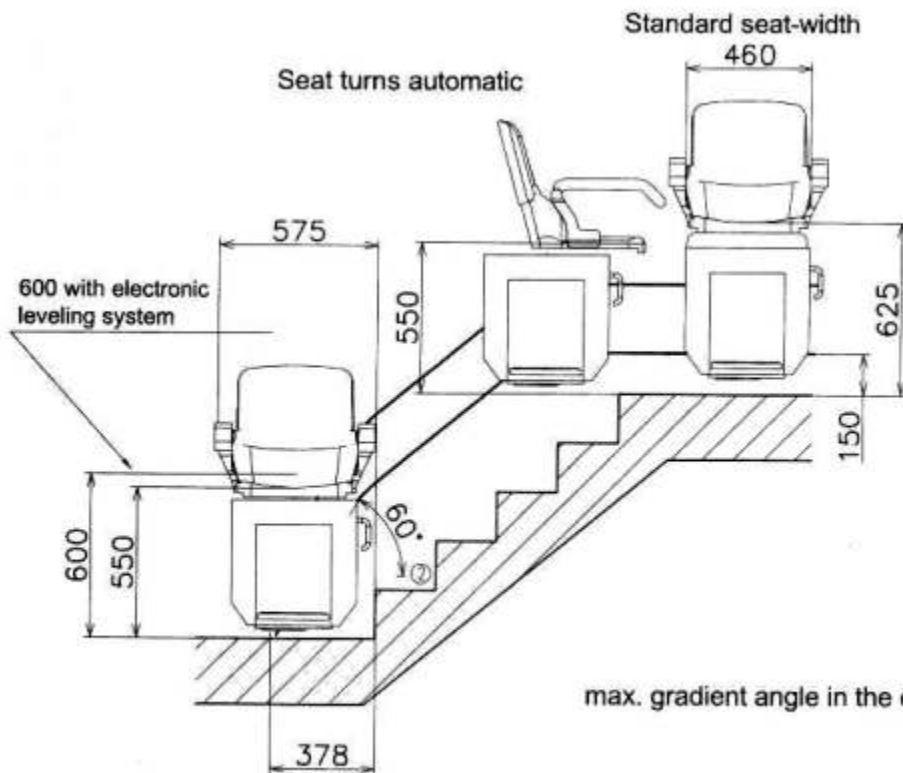
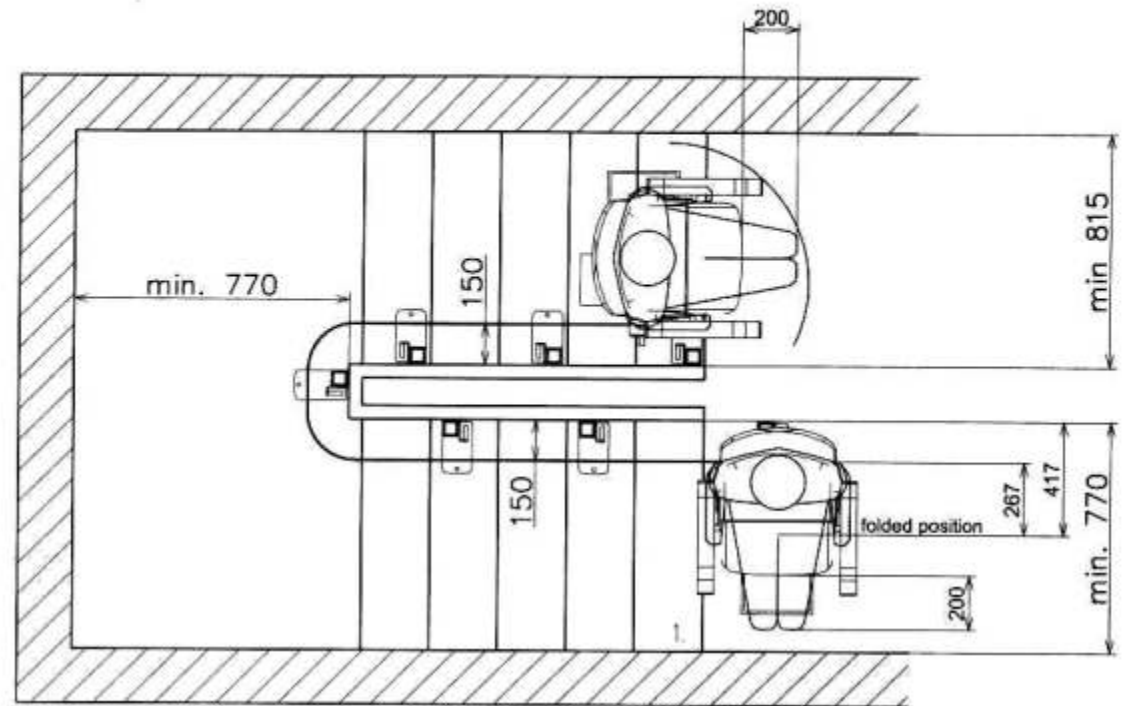
				Maßstab: 1 : 20	
				Gewicht:	
				HIRO 160 backrest bevel	
				Fastening in the staircase hall	
		Datum	Name	HIRO LIFT Bielefeld	
		Bearb. 28.05.99	Waltenberg		
2	max track-angle 60°	24.04.2004	We	Zeichn.-Nr.: 17517-E/G3	
1	electronic leveling system	24.04.2004	We		
Zust. Änderung		Datum	Name	Such-Nr.	
				1 Blott	
				1 Bl.	





				Mollstab:	
				Gewicht:	
		Folding track HIRO 160 / 180			
		Datum: Name:		HIRO LIFT	
		Bearb: 24.04.04 Wollenberg		Bielefeld	
		Gepr:			
		Zeichn.-Nr:		Soch.-Nr:	
		17519-E/G3			
Zust.	Änderung	Datum	Name		
				Bl.	

Standard Fastening Posts fasten to the steps



625 for horizontal drive ①  
with electronic leveling system

				Maßstab: 1 : 20	
				Gewicht:	
				HIRO 160 with Stairfastening	
		Datum	Name		Zeichn.-Nr. 17516-E/G3
		Bearb. 28.05.99	Wallenberg		
2	max. track-angle 60°	24.04.2004	Wa	Gepr.	Sach-Nr.
1	electronic leveling system	24.04.2004	Wa		
Zust	Änderung	Datum	Name		
					1
					1

