

LOAD TABLES

IMPACT LOADS

VERTICAL LOADS AT PIT (BUFFER IMPACT)		VERTICAL LOADS AT PIT UNDER GUIDE RAILS (INCLUDING IMPACT LOAD DUE TO SAFETIES APPLICATION, GOVERNOR LOAD AND EQUIPMENT ON RAILS)			
F9	F10	F8	F16	F17	F18
6305 LBF [28.0 KN]	8319 LBF [37.0 KN]	8983 LBF [40.0 KN]	11864 LBF [52.8 KN]	2833 LBF [12.6 KN]	2833 LBF [12.6 KN]

CAR RAIL LOADS

NON-SEISMIC		SEISMIC	
F	P	F	P
161 LBF [715 N]	97 LBF [432 N]	544 LBF [2416 N]	286 LBF [1269 N]

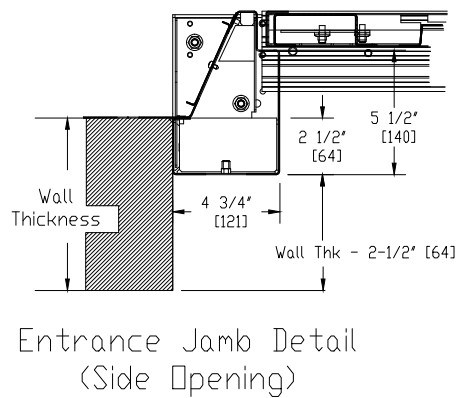
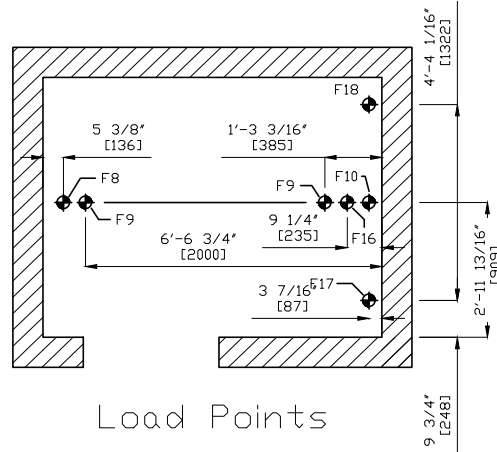
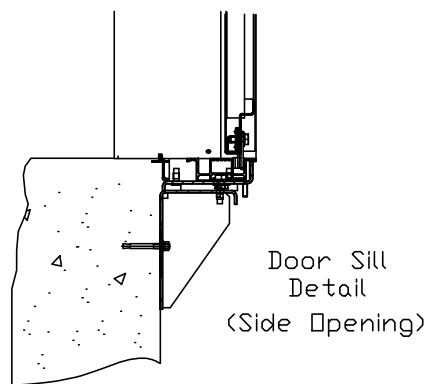
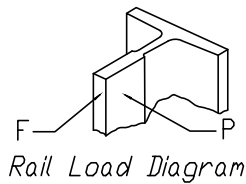
CWT-RAIL LOADS

NON-SEISMIC		SEISMIC	
F	P	F	P
64 LBF [285 N]	5 LBF [22 N]	575 LBF [2554 N]	267 LBF [1186 N]

STATIC RAIL LOADS FROM EQUIPMENT SUPPORTED

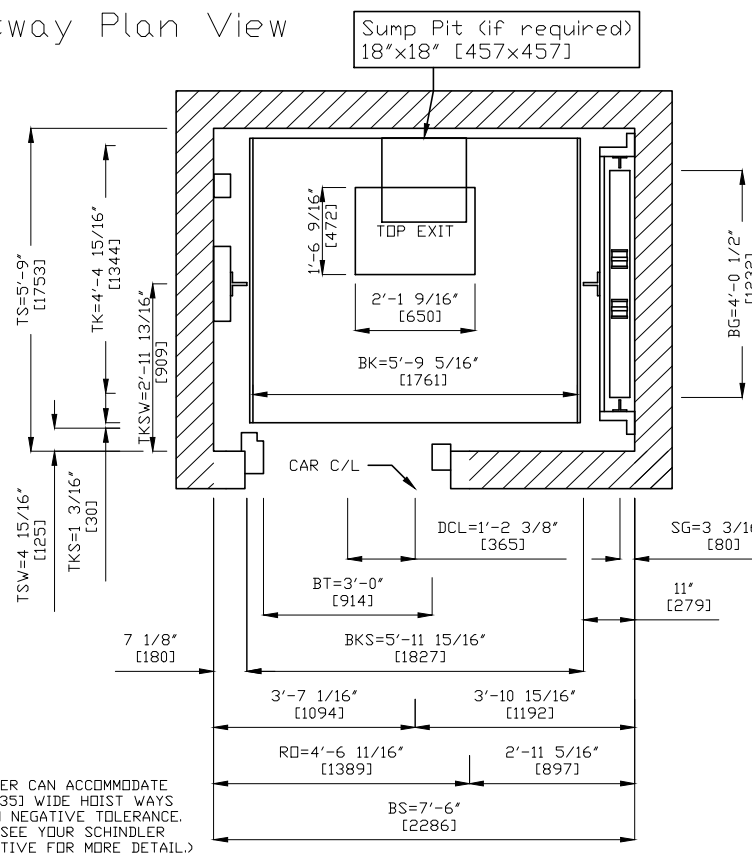
F8	F16	F17	F18
3632 LBF [16.2 KN]	6139 LBF [27.3 KN]	1823 LBF [8.1 KN]	1823 LBF [8.1 KN]

NOTE: F9 & F10 Do not occur simultaneously with F8 & F16

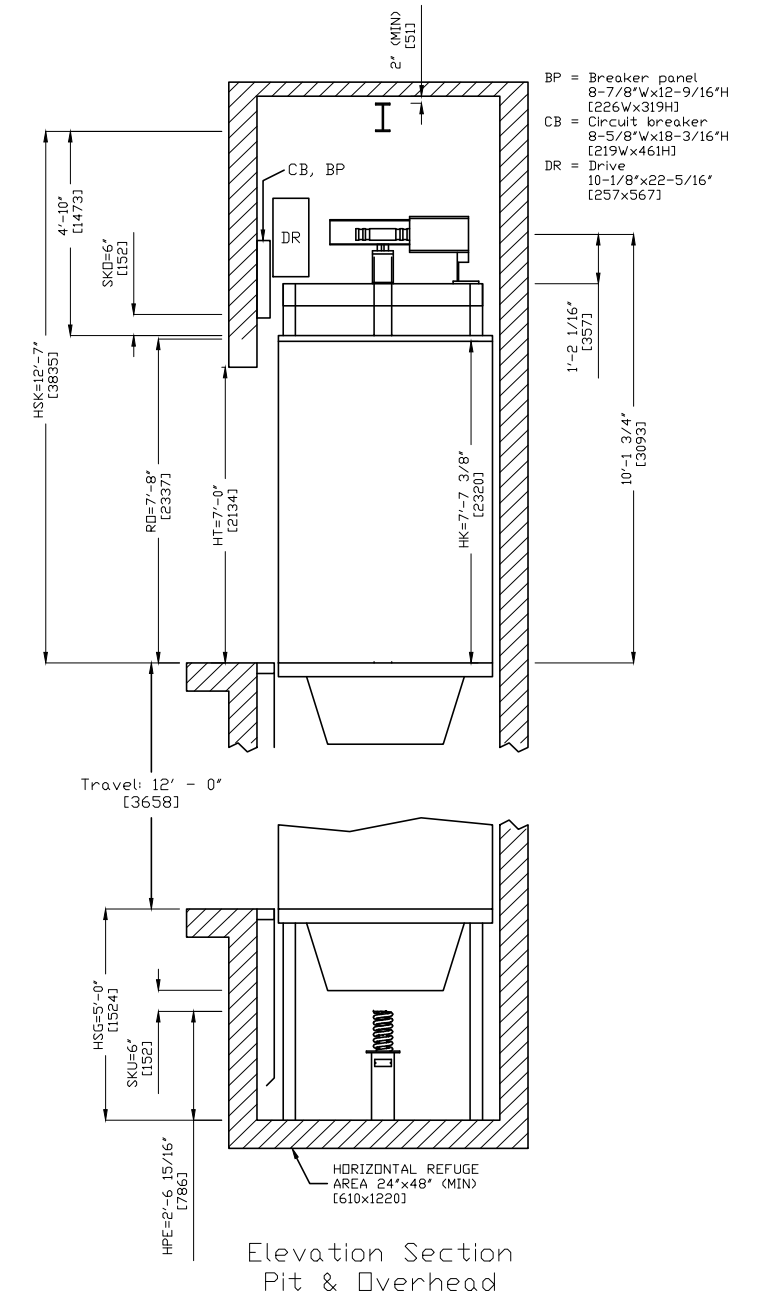


ACRONYM	DEFINITION	ACRONYM	DEFINITION
BGS	DISTANCE BETWEEN CWT GUIDE RAILS	RD	ROUGH OPENING
BK	CAR WIDTH (INSIDE)	SG	C/L CWT RAIL
BKS	DISTANCE BETWEEN CAR GUIDE RAILS	SKD	TOP RUNBY
BS	HOISTWAY WIDTH	SKU	BOTTOM RUNBY
BT	ENTRANCE OPENING WIDTH (HOISTWAY)	TCRR	TOP OF CAR RAIL
DCL	DOOR C/L	TCWR	TOP OF CWT RAIL
HK	CAB HGT TO UNDERSIDE OF CANOPY	TK	CAR DEPTH (INSIDE)
HSG	PIT DEPTH	TKS	RUNNING CLEARANCE
HSK	OVERHEAD HEIGHT	TKSW	FRONT H/W WALL TO C/L RAILS
HT	ENTRANCE OPENING HEIGHT	TS	HOISTWAY DEPTH
RHD	RAIL HEAD DEPTH	TSW	ENTRANCE SILL DEPTH

Hoistway Plan View



(SCHINDLER CAN ACCOMMODATE 7'-4" [2235] WIDE HOISTWAYS WITH ZERO NEGATIVE TOLERANCE. PLEASE SEE YOUR SCHINDLER REPRESENTATIVE FOR MORE DETAIL.)



PURCHASER NOTES: THE FOLLOWING NOTES SHOULD BE CONSIDERED BY THE PURCHASER BEFORE APPROVING THIS DRAWING WHEN THE APPLICABLE LOCAL CODES INCLUDE OTHER REQUIREMENTS OR CONFLICT WITH THE REFERENCED CODES BELOW, THE LOCAL CODES SHALL PREVAIL.

- Clear, plumb, hoistway with variations not to exceed +25mm (+1"). Hoistway enclosure to be fire rated per national code requirements and applicable building codes (rule 2.1.1).
- Power for construction adjacent to hoistways and machine/control rooms (110/220 volt, single phase, for welders and hoists) and sufficient 3-phase power to run elevator(s) at the same time.
- 75° bevel guards on all projections, recesses or setbacks over 100mm (4").
- Provide venting of the hoistway per national code requirements and applicable building codes (rule 2.1.4).
- Clear, flat, vertical or horizontal surfaces for mounting rail brackets at each floor, in overhead, and intermediate levels (if required).
- For masonry block hoistway construction, Schindler will provide rail bracket inserts for installation by others.
- For non-masonry hoistway construction with floor heights exceeding 4.5m (15ft), structural support at 2.4m (8ft) to 4.5m (15ft) above finished floor level for entrance strut angle attachment.
- Grouting around entrance frames and finished floor and grout to sill line after installation of entrance.
- Construction barricades (per OSHA requirements) either outside of elevator hoistway(s) or between elevators inside of hoistway(s) as required.
- Dry pit reinforced to sustain vertical forces from rails and impact loads on buffers (rule 2.2.2). Car buffer impact loads as calculated (rule 8.2.3).
- Adequate sealing and waterproofing of pit. Effective prevention of pit exposure to storm water or ground water.
- Sump pit, if required, to be located in rear center of pit floor.
- GFCI convenience outlet and light fixture with guard in pit (National Electrical Code).
- Pit ladder for each elevator in compliance with rule 2.2.4.2.
- GFCI convenience outlet and telephone outlet located in machine/control room.
- Provide, preferably at the top landing, a lockable, fused disconnect switch or circuit breaker suitable for 3-phase power for the elevator control and a separate lockable, fused disconnect switch for car lighting circuit for each elevator.
- Building corridors shall be lighted so that the illumination level at the landing sills, when an elevator is in service, shall not be less than 100 LUX (10 FC). (RuleE 2.11.10.2)
- For areas in seismic zone 2 or greater, provide additional 2" (50 mm) TO hoistway width.
- Hoist beam(s) required. Contact local Schindler office for sizing and location.
- Provide suitable feeder and branch wiring circuits from the building service to the controller, including main line switch, for signal systems, power operated doors, car lighting and convenience outlets.
- A temporary work platform is required for installation of the elevator.
- If applicable, smoke and/or heat detectors with signals to elevator controller(s).

3100 TRACTION ELEVATOR PLANS AND DETAILS



SPECIFICATIONS	
CAPACITY:	2100 lbs [950 kg]
RATED SPEED:	100 fpm [0.5 mps]
TRAVEL:	12' - 0" [3.658 m]
BUILDING:	
LOCATION:	
OWNER:	
ARCHITECT:	ENGINEER:
DRAWN BY: SchindlerDraw 2	DATE: Jun 12, 2020
DRAWING NO:	