

Wall and Column Schedule

- Notes:**
- Wall design numbers taken from Table A-9.10.3.1.A of the 2006 B.C. Building Code, the ULC Design Directory and the Fire Resistance Manual of the Gypsum Association.
 - Use paperless water resistant backer board to walls surrounding tubs/showers.
 - Use coated paperless water resistant backer board behind tiles on shower walls.
 - For exterior framed walls, use R20 thermal rated mineral wool insulation (Roxul ComfortBatt).
 - For all bathroom, washroom and residential interior perimeter walls, use acoustic rated mineral wool insulation as directed (Roxul Safe-n-Sound).
 - Where plywood for shear walls does not cover the full extent of the wall, provide an additional layer of plywood or drywall (thickness to suit) under finish layer of drywall, to provide flush finished wall surface.
 - Where walls meet, if one wall is assigned 5/8" GWB and the other wall is assigned 1/2" GWB in the same plane, continue 5/8" GWB for flush surface until appropriate change in direction.

W1 Not Used	W10 Concrete Fire Wall - Industrial to Industrial 4 hr. FRR: Concrete panels to BCBC Appendix D Item D-2.2.1 Note: Panel Manufacturer to provide documentation on equivalent thickness reinforced pre-cast tilt-up concrete wall (see structural for thickness/reinforcing)
W2 Concrete Foundation Wall / Footing - Interior No FRR required / STC n/a • reinforced concrete (see structural for thickness/reinforcing)	W11 Concrete Fire Wall - Residential to Residential 2 hr. FRR Required (4 hr FRR provided: ULC Design No. U901) / STC 68: sim. to BCBC Design B3c • 1/2" gypsum wall board with joints taped and filled • 3 1/2" mineral wool insulation • 2 x 4 wood studs @ 16" o.c. (see structural) • 1 layer 30 min building paper to separate wood and concrete • 8" filled and reinforced concrete block wall (see structural) • 1 layer 30 min building paper to separate wood and concrete • 2 x 4 wood studs @ 16" o.c. (see structural) • 3 1/2" mineral wool insulation • 1/2" gypsum wall board with joints taped and filled
W3 Concrete Exterior Wall - Industrial No FRR required / STC n/a • reinforced pre-cast tilt-up concrete wall (see structural for thickness/reinforcing) • 2 coats bituminous dampproofing to exterior (below grade) • free draining granular backfill (below grade) • drain rock over perimeter drainage as per civil (below grade)	W12 Interior Wall - Residential to Industrial - Fire Separation 2 hr. FRR: GA File # WP 3910 / STC 56: BCBC design W3a • 2-layers 5/8" Type 'X' gypsum wall board w/ joints taped and filled • 2 rows of 2x4 wood studs staggered on 2x6 plate @ 16" o.c. max. (see structural) • 3 1/2" mineral wool insulation to one side of stud cavity • 1/2" plywood sheathing to industrial side (see structural) • 2-layers 5/8" Type 'X' gypsum wall board w/ joints taped and filled *Where plans call for additional 2x4 wall adjoining the W12 wall: Provide 2x4 studs, with 3 1/2" mineral wool insulation to stud space and 1/2" gypsum wall board to suite side of completed W12 wall.
W4 Concrete Exterior Wall - Residential No FRR required / STC n/a • reinforced pre-cast tilt-up concrete wall (see structural for thickness/reinforcing) • 1/2" air gap • 1 layer 30 min building paper, applied to stud wall face horizontally, shingled • 2x6 wood stud wall, with studs @ 16" o.c., tilted into place • 5 1/2" (R20 min.) mineral wool insulation to stud space • 6 mil. UV rated poly vapour barrier • 1/2" gypsum wall board with joints taped and filled	W13 Interior Wall - Unrated / Uninsulated No Rating / STC: n/a • 1/2" gypsum wall board w/ joints taped and filled • 2x4 wood studs @ 16" o.c. max. • 1/2" gypsum wall board w/ joints taped and filled
W5 Exterior Stud Wall - Industrial - Fibre Cement Lap Siding to Shed Gable Side Walls No FRR required / STC n/a • 5" exposure factory primed fibre cement lap siding, painted • 3/4"x1 1/2" PT plywood strapping @ 16" o.c. • 2-layers 30 min. building paper, shingled to provide min. 2 layers at every point on wall • 1/2" plywood sheathing (OSB not acceptable) • pre-engineered wood trusses	W14 Interior Wall - Unrated / Insulated (bathroom/washroom) No Rating / STC 32: BCBC design W1c • 2x4 wood studs @ 16" o.c. (see structural) • 2x4 wood studs @ 16" o.c. max. (2x6 wood studs to main floor washrooms) • 3 1/2" mineral wool insulation to fill stud space • 1/2" gypsum wall board* w/ joints taped and filled *See Wall and Column Schedule Notes for gypsum wallboard types in bathrooms
W6 Exterior Stud Wall - Residential to Residential Balcony - Fibre Cement Lap Siding No FRR required (45 min. FRR: BCBC design EW1b) / STC n/a • 5" exposure factory primed fibre cement lap siding, painted • 3/4"x1 1/2" PT plywood strapping @ 16" o.c. • 2-layers 30 min. building paper, shingled to provide min. 2 layers at every point on wall • 1/2" plywood sheathing (OSB not acceptable) • 2x6 wood studs @ 16" o.c. (see structural) • 5 1/2" (R20 min.) mineral wool insulation to stud space • 6 mil. UV rated poly vapour barrier • 2-layers 5/8" Type 'X' gypsum wall board w/ joints taped and filled	W15 Interior Wall - Residential (Stair half-landing to Kitchen) Continuation of W12 Rating / STC n/a • 1/2" gypsum wall board w/ joints taped and filled (Kitchen) • 2x4 wood studs @ 16" o.c. max. • 2-layers 5/8" Type 'X' gypsum wall board w/ joints taped and filled (Landing) *See A10 for section showing detail of this area
W7 Exterior Stud Wall - Industrial to Residential Balcony - Fibre Cement Lap Siding 2 hr. FRR: GA File # WP 4135 / STC 38: BCBC design W2a • 5" exposure factory primed fibre cement lap siding, painted • 3/4"x1 1/2" PT plywood strapping @ 16" o.c. • 2-layers 30 min. building paper, shingled to provide min. 2 layers at every point on wall • 2-layers 5/8" type 'X' exterior fibreglass faced gypsum sheathing with joints taped and filled • 2x6 wood studs @ 16" o.c. (see structural) • 5 1/2" (R20 min.) mineral wool insulation to stud space • 6 mil. UV rated poly vapour barrier • 2-layers 5/8" Type 'X' gypsum wall board w/ joints taped and filled	C1 Interior Columns - Supporting Residential Floor 2 hr FRR: BCBC Table D-2.6.1.F / STC n/a • 4" x 4" HSS column or 5" x 5" HSS column (see structural for locations) (BCBC Appendix D-2.6.4 - M/D ratio (worst case) for SC1 = 47.25) • 3/8" steel studs as per 2.6.5 Item 5), to all sides of column to cover base plate • 1-layer 5/8" Type 'X' and 2-layers 1/2" Type 'X' gypsum wall board, applied vertically w/ joints taped and filled Attachment method for steel studs and gypsum board to be in accordance with BCBC Appendix D-2.6.5
W8 Exterior Stud Wall - Electrical Room - Fibre Cement Lap Siding No Rating Required / STC n/a • 5" exposure factory primed fibre cement lap siding, painted • 3/4"x1 1/2" PT plywood strapping @ 16" o.c. • 2-layers 30 min. building paper, shingled to provide min. 2 layers at every point on wall • 1/2" plywood sheathing (OSB not acceptable) • 2x6 wood studs @ 16" o.c. (see structural) • 5 1/2" (R20 min.) mineral wool insulation to stud space • 6 mil. UV rated poly vapour barrier • 1/2" gypsum wall board with joints taped and filled • 3/4" G1S plywood backboards as required by electrical	C2 Interior Columns - Supporting Roof No Rating / STC n/a • 5" x 5" HSS column or 6" x 6" HSS column (see structural for locations)
W9 Interior Wall - Electrical Room - furred out concrete panel No Rating Required / STC n/a • Pre-cast tilt-up concrete panel • 1-layer 30 min. building paper, shingled • 2x4 wood studs @ 16" o.c. • 3 1/2" mineral wool insulation to stud space • 6 mil. UV rated poly vapour barrier • 1/2" gypsum wall board with joints taped and filled • 3/4" G1S plywood backboards as required by electrical	

Floor Schedule

- Notes:**
- Floor design numbers taken from Table A-9.10.3.1.B of the 2006 B.C. Building Code, the iLevel Trus Joist Fire Facts Guide 1500, the ULC Design Directory and the Fire Resistance Manual of the Gypsum Association.

F1 Concrete Slab on Grade No Rating / STC: n/a • reinforced concrete slab c/w edge thickening (see structural for thickness/reinforcing) • 10 mil UV rated poly vapour barrier, joints lapped 6" min. and penetrations sealed to poly • 6" granular compacted fill	F3 Residential Balcony Floor 2 hr FRR: GA File # FC 5710 (UL Design L511) / STC: n/a • 24"x24" concrete paving slabs on plastic pedestals • 2-ply SBS waterproof membrane, cold applied base sheet w/ torch-on cap sheet • 3/4" minimum thickness lightweight concrete topping, sloped to drain • 5/8" plywood subfloor with edges fully blocked • 2x12 wood floor joists @ 12" o.c. (see structural for direction) • fill joist space with mineral wool insulation • 1 layer 5/8" type 'C' gypsum ceiling board w/ joints taped and filled • metal resilient channels @ 16" o.c. • metal resilient channels @ 16" o.c.
F2 Residential Wood Floor 2 hr FRR: Level Assembly G, CAN/ULC-S101(UL Design L538) / STC: n/a • 1 1/2" lightweight concrete topping • 5/8" plywood subfloor, with edges fully blocked • 16" TJI engineered floor joist @ 12" o.c. (see structural for joist direction) • 3 1/2" fibreglass insulation • insulation supported by stay wires @ 12" o.c. and centred on joist bottom flange • 1 layer 5/8" type 'C' gypsum ceiling board w/ joints taped and filled • metal resilient channels @ 16" o.c. • 2-layers 5/8" type 'C' gypsum ceiling board w/ joints staggered taped and filled	F4 Typical Wood Stair and Landing No FRR required • 3/4" plywood sheathing (1" to stair treads) (OSB not acceptable) • 2x8 wood floor joists at landings, 2 x 12 stringers (see structural for spacing)
	F5 Residential Wood Floor No Rating Required / STC: n/a • 1 1/2" lightweight concrete topping • 5/8" plywood subfloor with edges fully blocked • 16" TJI engineered floor joist @ 12" o.c. (see structural for joist direction) • 1/2" gypsum ceiling board w/ joints taped and filled

Roof Schedule

- Notes:**
- Roof design numbers taken from table A-9.10.3.1.B of the 2006 B.C. Building Code

R1 Pitched Roof - Metal Roofing No FRR required (45 min. FRR: BCBC design R1) / STC n/a • Galvalume® finish standing seam metal roofing • SBS self adhesive base sheet • 5/8" plywood sheathing with edges fully blocked (see structural) • engineered wood roof trusses (see structural for spacing/direction) • R20 blown fibreglass insulation c/w air vent baffles at eaves • 6 mil. u.v. rated poly vapour barrier • 5/8" type 'X' gypsum ceiling board w/ joints taped and filled	R3 Pitched Roof - Metal Roofing No FRR required / STC n/a • Galvalume® finish standing seam metal roofing • SBS self adhesive base sheet • 5/8" plywood sheathing with edges fully blocked (see structural) • engineered wood roof trusses (see structural for spacing/direction) • R20 blown fibreglass insulation c/w air vent baffles at eaves • 6 mil. u.v. rated poly vapour barrier • 1/2" gypsum ceiling board w/ joints taped and filled
R2 Typical Eave Construction No Rating, STC n/a • Galvalume® finish standing seam metal roofing • SBS self adhesive base sheet • 5/8" plywood sheathing, glued and nailed with edges fully blocked (see structural) • engineered roof trusses (see structural for spacing/direction) • plywood sheathing / blocking between trusses at exterior wall plane (see structural) with holes drilled in sheathing to provide the required ventilation area • perforated aluminum soffit c/w 2x4 wood framing as required	

Window Schedule

- Notes:**
- Typical residential nail-on windows are vinyl frames, unless noted otherwise
 - Storefront windows are clear-anodized aluminum frames, unless noted otherwise
 - Hardware as specified
 - Shop drawings are required for Architect's review prior to fabrication
 - Glass shall conform to CAN 2-12M double pane fixed glass.
 - All windows shall have LOW'E coating on surface #3.
 - All sealed units shall be filled with Argon gas.
 - U. value of .35 or less (Energy Star rated)
 - All storefront windows to be tempered.
 - Windows shall conform to CAN/CSA-A440.00 requirements for "windows". Vinyl windows shall meet the A3, B4 (operable), B4 (fixed) and C3 performance classifications of CAN/CSA A440.00

Residential Windows	Commercial Windows
1 Vinyl Window - Vinyl Frames - Low E sealed insulating double glazed window panes - Awning vent as shown - Fully weatherstrip opening vents	10 Aluminum Storefront Window - Thermally broken Aluminum frames - Low E sealed tempered insulating double glazed window panes - Insulated aluminum spandrel panel - See plans for handling
2 Vinyl Window - Vinyl Frames - Low E sealed insulating double glazed window panes - Awning vent as shown - Fully weatherstrip opening vents	11 Aluminum Storefront Window - Thermally broken Aluminum frames - Low E sealed tempered insulating double glazed window panes - Insulated aluminum spandrel panel
3 Vinyl Window - Vinyl Frames - Low E sealed insulating double glazed window panes - Awning vent as shown - Fully weatherstrip opening vents	12 Aluminum Storefront Window - Thermally broken Aluminum frames - Low E sealed tempered insulating double glazed window panes
4 Sliding Patio Door - Vinyl Frames - Low E sealed insulating double glazed window panes - Sliding vent as shown - Fully weatherstrip opening vents	13 Aluminum Storefront Window - Thermally broken Aluminum frames - Low E sealed tempered insulating double glazed window panes

Door Schedules

- Notes:**
- Refer to plans for handings
 - Hardware as specified
 - Shop drawings are required for Architect's review prior to fabrication
 - Doors and frames to be labeled for ratings as indicated
 - Wood doors and wood frames shall conform to CSA 0132.2-90 standard as a minimum and to A.W.M.A.C. custom grade standards.
 - Steel doors and frames shall conform to Canadian Steel Door and Frame Manufacturer's Association manufacturing specifications.
 - Glass shall conform to CAN 2-12M single & double pane tempered glass.
 - All sealed units for exterior doors shall have LOW'E coating on surface #3
 - All sealed units on exterior doors shall be filled with Argon gas.
 - Hardware standards: GS88-6P-1M to 6P-16M
 - ULC labeled doors shall have ULC labelled finish hardware.
 - Entry doors to have operable screens as specified.

Residential Doors	Exterior Doors	Interior Doors
1 Storefront Door - Aluminum storefront door - Thermally broken Aluminum frames - Frosted tempered insulating safety glass units - Flush aluminum threshold - Weatherstripping - Push / pull hardware - Paddle latch on interior	2 Patio Door - No FRR - Insulated metal door - Solid wood frames - Tempered glass double glazed unit - Weatherstripping - Push / pull hardware	3 Swing Door - Hollow core wood door - Solid wood frames - 1 1/2" pair of hinges - Lever passage set - Privacy lock set to washroom doors
	4 Swing Door - Hollow core wood door - Solid wood frames - 1 1/2" pair of hinges - Lever passage set - Privacy lock set to washroom doors	5 Pocket Door - Hollow core wood door - Solid wood frames
	6 Bi-Pass Doors - Hollow core wood door	7 Bi-Fold Doors - Hollow core wood door
	8 Bi-Fold Doors - Hollow core wood door	
Commercial Doors		
10 Storefront Door - Aluminum storefront door - Thermally broken Aluminum frames - Tempered insulating safety glass units - Flush aluminum threshold - Weatherstripping - Push / pull hardware - Paddle latch on interior	11 Service Room Door - Insulated metal door - Solid metal frames - Flush aluminum threshold - Weatherstripping - Door sweep - Push / pull hardware - 1 1/2" pairs of BB hinges (NRP)	12 Washroom Door - Solid core wood door - Solid wood frames - 1 1/2" pair of hinges - Lever privacy lock set
	13 Commercial Overhead Door - Thermally Broken Aluminum frames - Painted aluminum panels - Low E sealed tempered insulating double glazed window panes - Fully weatherstripped opening	14 Commercial Overhead Door - Thermally Broken Aluminum frames - Painted aluminum panels - Low E sealed tempered insulating double glazed window panes - Fully weatherstripped opening

Symbol Key

	door type
	window type
	wall/floor/roof type
	material
	revision
	detail number sheet number
	section number sheet number
	elevation number sheet number
	structural gridlines

GENERAL NOTES:

- Interior dimensions are to the face of stud unless otherwise noted.
- Exterior dimensions are to the face of sheathing / face to concrete foundation unless otherwise noted.
- Insulation shown in sections does not necessarily represent the full extent of the area to be insulated. Where a wall, floor, or roof is shown with insulation it is intended that the entire section of the wall, floor or roof is to be insulated. This is typical for all details.
- PT denotes pressure-treated; SAM denotes self-adhering membrane; CS denotes combed spruce.
- Preservative treatment of the PT strapping, blocking at plywood sheathing is to be CCA.
- Fully insulate all rough opening void spaces.

#	REVISION	DATE
	ISSUED FOR:	DATE
	Review, 90% complete	2011.09.09
	Building Permit Submission	2011.09.28
	Tender	yyyy.mm.dd
	Construction	yyyy.mm.dd

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**ISSUED FOR:
Building Permit
Application**

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PROJECT	No. 080309
5301 Chester Road, Duncan, B.C.	
Parhar Business Centre	
for Parhar Group	
TITLE Assemblies and Schedules	
DATE: September 28, 2011	SHEET A9
SCALE: NTS	
DRAWN BY: RP	REV. of 12