

Part of the Ralltech Architectural Group

mirage®

SKYFOLD

NOTES TO G.C. Give special attention to any obstructions to ceiling pockets & cables (i.e. ducts, sprinkler pipes, drain pipes, electrical conduits, etc.).

One steel C-channel** (flanges up) to be supplied & installed by others. Alternate steel support to be approved in the control of the control

North & South America = C8 × 11.5 [C200 × 17] Europe = C200 × 75 Asia = C200 × 80

*C-channel designation:

Support steel above the wall along its axis must be parallel to the floor within $\frac{1}{2}$ " [12.7] for the entire length of the wall (this includes loaded deflection).

- Attachment details of C-channel** to structure to be designed by others & must not interfere with Skyfold hangers or motor unit or lifting cables.
- Structural steel support & bracing must not interfere with motor mounts or ceiling supports.

Access panel to motor unit, 24" x 24" [610 x 610] minimum, 2 locations (see note #11).

Sprayed-on freproofing (mineral wool & cement) is not recommended for use on the steel support to which Skyfold is attached. An intumescent coaling or film is preferred. Local building codes must be respected. Freproofing is by others.

Approximate weight of wall: Maximum weight per hanger: XXXX lbs. [XXXX Kg.] XXX lbs. [XXX N.]

Maximum cable tension: (TWO cables per hanger)

Do not locate Skyfold switch within this area, Any other switch, alarm, thermostat, door frame, etc. located within this area feither side of wall) must be recessed (flush-mounted) into the fixed wall.

y [140], Do not locate any switches, sfarms, thermostats, door frames, etc. within this area.

* POWER MUST BE AVAILABLE AT TIME OF INSTALLATION.

Specified electrical: 208 VAC, 3Ø, 60 Hz.

Fixed wall to be constructed to – provide an equal/comparable acoustic performance as the Skyfold partition (by others), typical both ends. (Ref. ASTM E 557)

Compact motor unit (weight= 500 lbs. [230 Kg.] ±) attached to C-channel** before construction of acoustic barrier & pocket.

± 2'-7¾" [806] →

\(\begin{align} \frac{3}{3}\) [5], 6x31 A/C cables.

Lift cable paths must be clear of all mechanical obstructions.

PLAN SCALE: 3/8" = 1'-0"

E/S2039

1¹/₄ [31.8] 1 Typ

1 1111-4 wires #18 [Ø 1.02] to key switches

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Infrared sensor (by Skyfold)

6" [152]

Wall guide : (by Skyfold)

2'-0" [610] Typ

| | | | | |

Continuous C-channel** (by others), subject to structural approval.

 $2\frac{13}{16}$ " [71.4] .

Hanger grid dimension

Dimension varies -

Fixed wall to fixed wall dimension

Hanger grid dimension

Hanger grid dimension

- 213" [71.4]

— 24'' [610] |

Pocket framing must not interfere with motor unit & must allow for easy access via access panels.

Electrical control box can be located within 15'-0" [4575] of its indicated position.

T.O. Pocket ELEV B.O. C-channel**
ELEV

Skyfold wall

THE ELECTRICAL CONTROL BOX IS TO BE MOUNTED BY THE ELECTRICAL CONTRACTOR.

24 volt key switch controls & boxes to be installed by electrical contractor as per standard light switch. Boxes to be fitted at desired key switch location with suitable cable run back through ceiling vold to control box position, including sufficient spare to allow connection. Key switches are supplied by Skyfold & are required on each side of the world.

Floor to be constructed to provide an equal/comparable acoustic erformance as the Skyfold partition (by others). (Ref: ASTM E 557)

A SECTION - WALL UP

- Motor size: Varies project-specific.
 Full load amp: XXXX A
- Skyfold requires two 24" x 24" (6) 0 x 610] (minimum) access panels in acoustic ceiling diffectly beside motor for installation & maintenance of system. Not required if finished ceiling is suspended ceiling files.
- Drive unit to be installed prior to construction of acoustic barrier & pocket. All pocket construction (gypsum, suspended ceiling tile, framing, etc.) is by others.
- Do not scale from this drawing. All dimensions must be verified on site.

- LEGEND

17" [430] minimum clearance required

 $-1'-11\frac{5}{5}$ " [600] \pm -

Skyfold wall <u>†</u> ∰ [10] ±

Dimensions in [] are in millimeters (mm) unless noted otherwise.

CEILING SUPPORT & HANGER

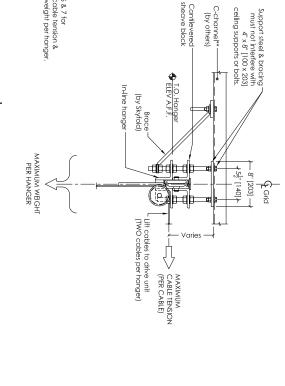
CEILING ACCESS PANEL

TYPICAL MIRAGE WALL

X @ X'-X" [XXXX] x X'-X" [XXXX] Finished ceiling Compact drive unit

S2039 PLAN & MECHANICAL DETAILS As noted 1 of 2 Revision

Cantilevered sheave block Support steel & bracing must not interfere with 4" x 8" [100 x 203] ceiling supports or bolts. C-channel** (by others) ELEV A.F.F. In-line hanger Wall guide -(by Skyfold) Fixed wall-MAXIMUM WEIGHT PER HANGER % (212.7) → ← Grid € Hanger 2년 [71.4] O <u>+ 8" [203]</u> → ≯5½" [140]⊁ Lift cables to drive unit (TWO cables per hanger) - Brace (by Skyfold) CABLE TENSION (PER CABLE) NOTE: See notes 6 & 7 for maximum cable tension & maximum weight per hanger Cantilevered sheave block Support steel & bracing — must not interfere with 4" x 8" [100 x 203] ceiling supports or bolts. C-channel** -(by others) T.O. Hanger In-line hanger Brace-(by Skyfold) MAXIMUM WEIGHT PER HANGER ≯5½" [140]⊁ − 8" [203] - Lift cables to drive unit (TWO cables per hanger) MAXIMUM
CABLE TENSION
(PER CABLE)



B.O. C-channel**
ELEV A.F.F.

Adapter plate (by Skyfold)

6¹/₁₆" [154]

C-channel** flanges up (by others)

- ½ HP motor
 maximum torque
 3715 Ibin [420 Nm]

\$\psi_\text{Shaft}



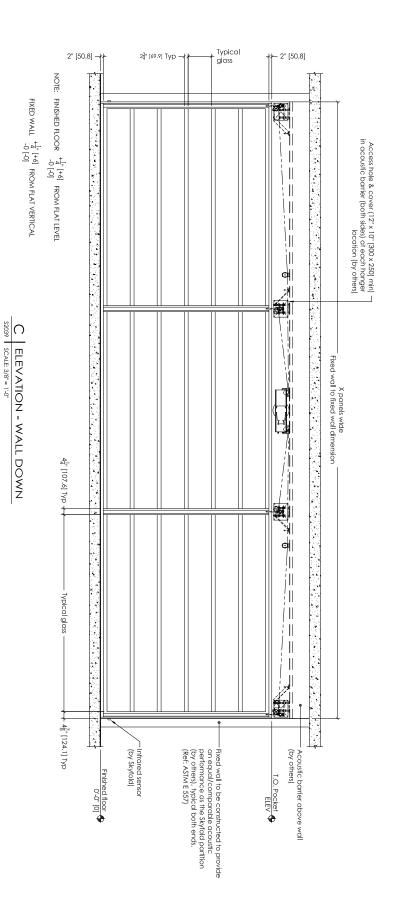
SECTION - LOADS @ HANGERS END CONDITION, TYP x2

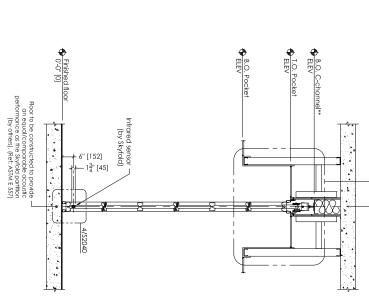


T.O. Pocket ELEV A.F.F.

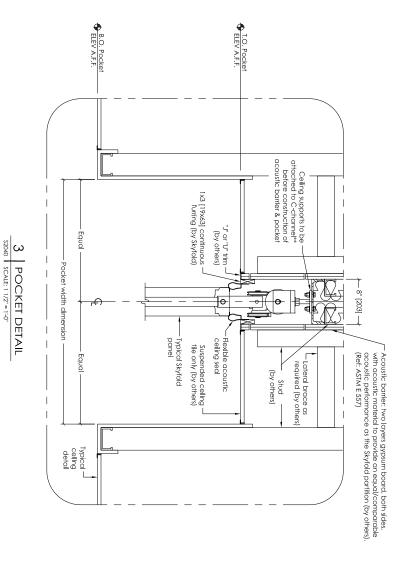
4

1 DETAIL - SKYFOLD MECHANICAL





D SECTION - WALL DOWN

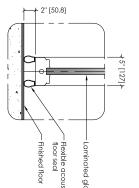




Infrared sensor (by Skyfold)

- Sweep seal
- Wall guide
(by Skyfold)
- Fixed wall





Fixed wall to be constructed to provide an equal/comparable acoustic performance as the Skyfold partition (by others).

(Ref. ASTM E 557)

1" [23.8]- $1\frac{3}{4}$ [44.5]

Mechanism Laminated— glass

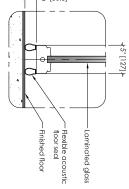
± 3³/₄" [95.3] ± 2" [50.8]

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√5" [127]↓

7" [22.1]

Trim



4 FLOOR SEAL DETAIL
SZ040 SCALE: 1 1/2"=1:0"

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NOTES TO G.C.

Give special attention to:

€ Skyfold wall

- Any obstructions to ceiling pockets & cables (i.e. ducts, sprinkler pipes, drain pipes, electrical conduits, etc.),
- Tolerances of fixed walls & finished floor,
- Removable ceiling tile for top of pocket.
- STC rating:
- Double laminated glass = 42, as per industry standards

*SEE NOTE 3 FOR APPLICABLE PANEL COMPOSITION.

- Mirage system is not currently rated.
- Frame finish: Silver metallic.
- Skyfold requires two $24^{\circ} \times 24^{\circ}$ (610×610) (minimum) access panels in acoustic celling directly beside motor for installation & mathemance of system. Not required if finished celling is suspended celling files.
- Drive unit to be installed prior to construction of acoustic barrier & pocket. All pocket construction (gypsum, suspended ceiling file, framing, etc.) is by others.
- The floor underneath the wall along its axis must be flot to within $\frac{1}{4}$! [6] over the entire length of the wall. A peak to valley undulation of $\pm \frac{1}{4}$! [6] must not be closer together than 24" [610]. A peak to valley undulation of $\pm \frac{1}{8}$! [3] must not be closer together than 12" [305].
- Do not scale from this drawing. All dimensions must be verified on site.
- Dimensions in [] are in millimeters (mm) unless noted otherwise.

**C-channel designation:

North & South America = C8 x 11.5 [C200 x 17] Europe = C200 x 75 Asia = C200 x 80

THIS DRAWING IS IN INTENDED AS A GUIDE. IN ALL CASES SKYFOLD SHOP DRAWINGS SPECIFIC TO EACH PROJECT ARE REQUIRED FOR FINAL BUILD-TO DIMENSIONS.

TYPICAL MIRAGE WALL

X @ X'-X" [XXXX] x X'-X" [XXXX] Finished ceiling Compact drive unit

PANEL & POCKET DETAILS

As noted

S2040 2 of 2 Revision