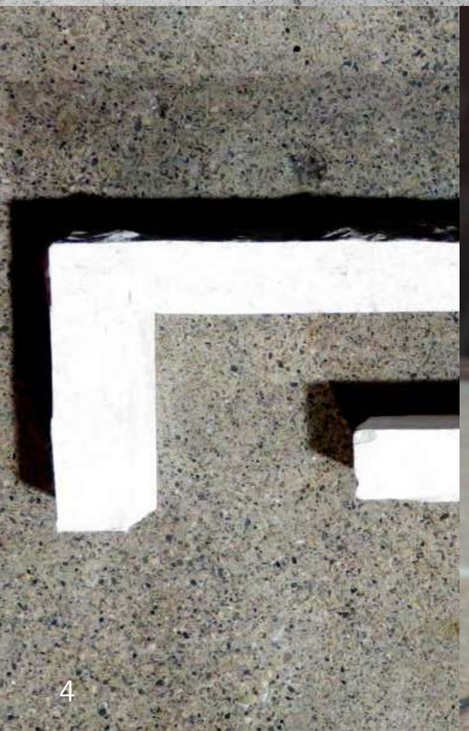
STONE CONCEPT LTD

Natural Thin Veneer

Stone Concept is a **premier** supplier of natural stone veneer

Layers



Natural stone is a timeless resource. Incorporating it in the designs of today enhances not only the appearance, but also the integrity of any build. Natural stone veneer is used as a protective and decorative covering for exterior or interior walls and surfaces. The veneer is typically 1-1 1/2 inches thick and on average is about 15 pounds per square foot, which allows you to install the stone without any additional support.

THIN VENEER

ALEXANDRIA GRAY

TYPE	FLATS	CORNERS
L	✓	N/A

ANAFI BLANCO

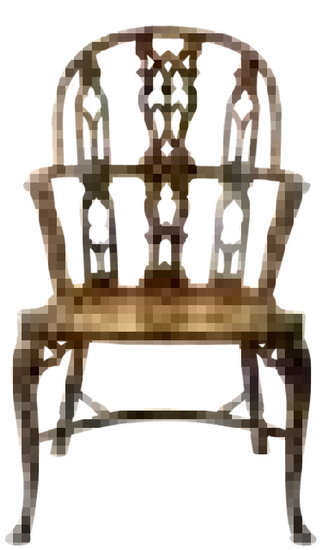
TYPE	FLATS	CORNERS
M	✓	N/A

APACHE RIDGE

TYPE	FLATS	CORNERS
L + Q	✓	✓

ATWOOD CASTLE

TYPE	FLATS	CORNERS
L	✓	✓



ATWOOD LEDGE

TYPE	FLATS	CORNERS
L	✓	✓

BEAR RIDGE

TYPE	FLATS	CORNERS
L	✓	✓

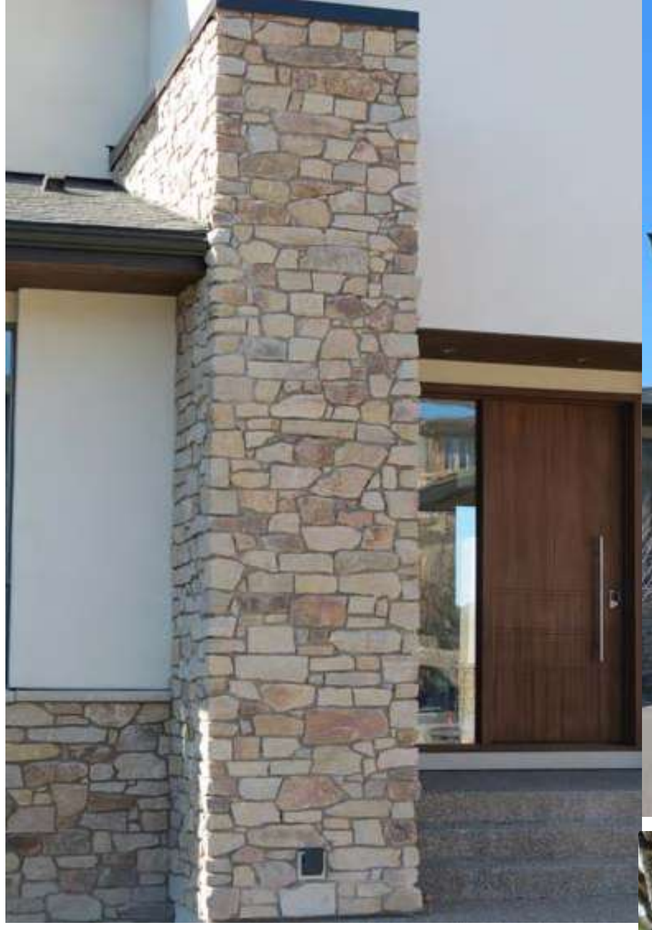
NEW

BELGIUM BRICK

TYPE	FLATS	CORNERS
L	✓	✓

BIG HORN VALLEY

TYPE	FLATS	CORNERS
L	✓	✓



BIRCHDALE

TYPE	FLATS	CORNERS
Q	✓	✓

BIRKSHIRE CASTLE

TYPE	FLATS	CORNERS
L	✓	✓

BLACKFOOT MOUNTAIN

TYPE	FLATS	CORNERS
L	✓	✓

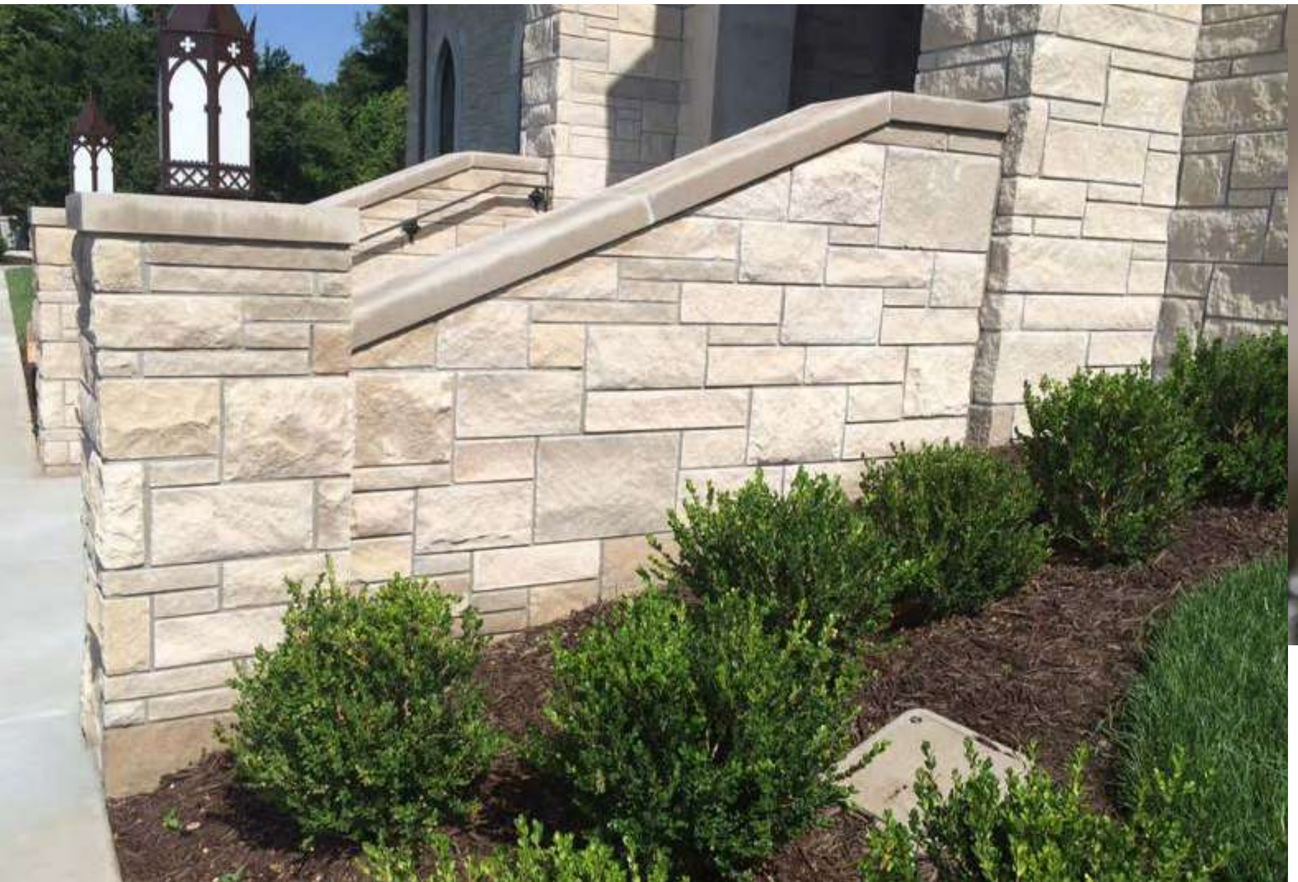
NEW

BLANCO MODERNO

TYPE	FLATS	CORNERS
M	✓	N/A

BOW RIVER

TYPE	FLATS	CORNERS
G	✓	✓



BUFF LIMESTONE ASHLER

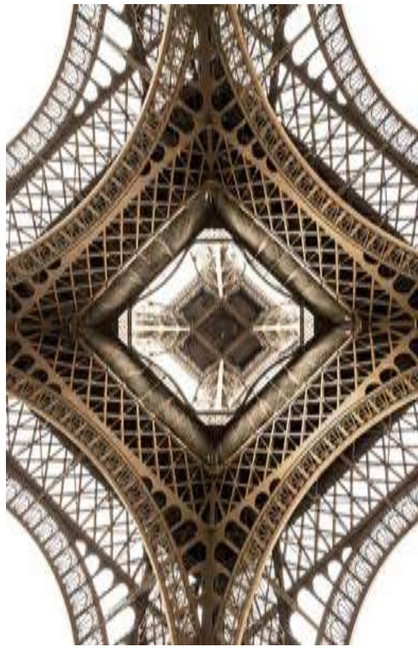
TYPE	FLATS	CORNERS
L	✓	✓

BUFF SANDSTONE

TYPE	FLATS	CORNERS
S	✓	✓

BUFFALO PLAINS

TYPE	FLATS	CORNERS
S	✓	✓



BYRON MOUNTAIN

TYPE	FLATS	CORNERS
L + Q	✓	✓

CONTEMPORARY LIMESTONE

TYPE	FLATS	CORNERS
L	✓	N/A

CONTEMPORARY SANDSTONE

TYPE	FLATS	CORNERS
S	✓	N/A

NEW

CROSSOVER SANDSTONE

TYPE	FLATS	CORNERS
S	✓	✓

DAKOTA HILLS

TYPE	FLATS	CORNERS
L	✓	✓

EAGLE LAKE

TYPE	FLATS	CORNERS
L	✓	✓

EDINBOROUGH

TYPE	FLATS	CORNERS
L	✓	✓

FLORENCE

TYPE	FLATS	CORNERS
L + S	✓	✓

FRONTENAC CASTLE

TYPE	FLATS	CORNERS
L	✓	✓

FRONTENAC LEDGE

TYPE	FLATS	CORNERS
L	✓	✓

FRONTENAC RANDOM

TYPE	FLATS	CORNERS
L	✓	✓

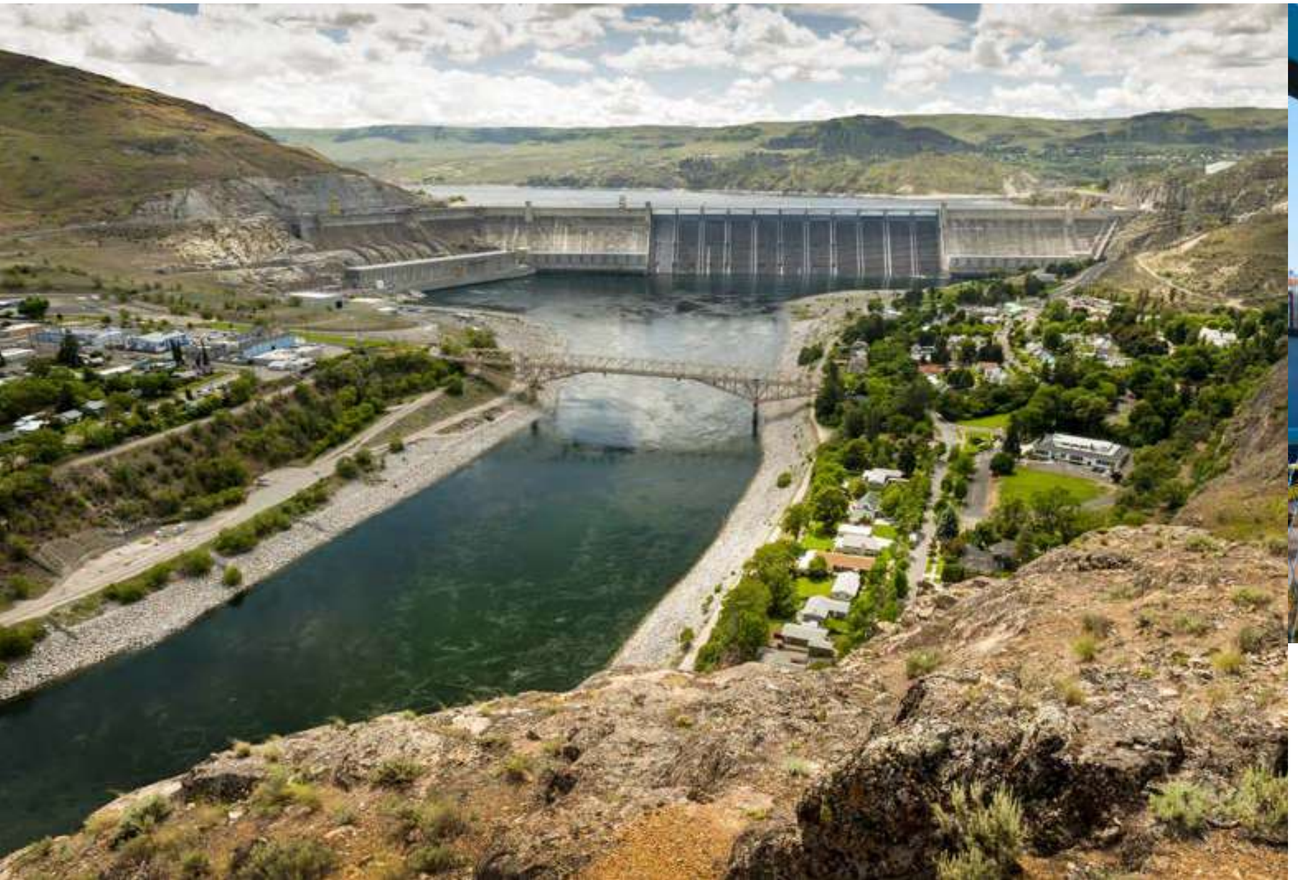
NEW

GËO BLOCK

TYPE	FLATS	CORNERS
L	✓	N/A

GRAND CANYON

TYPE	FLATS	CORNERS
L	✓	✓



GRAND COULEE

TYPE	FLATS	CORNERS
L	✓	✓

HERRENBERG

TYPE	FLATS	CORNERS
L	✓	✓

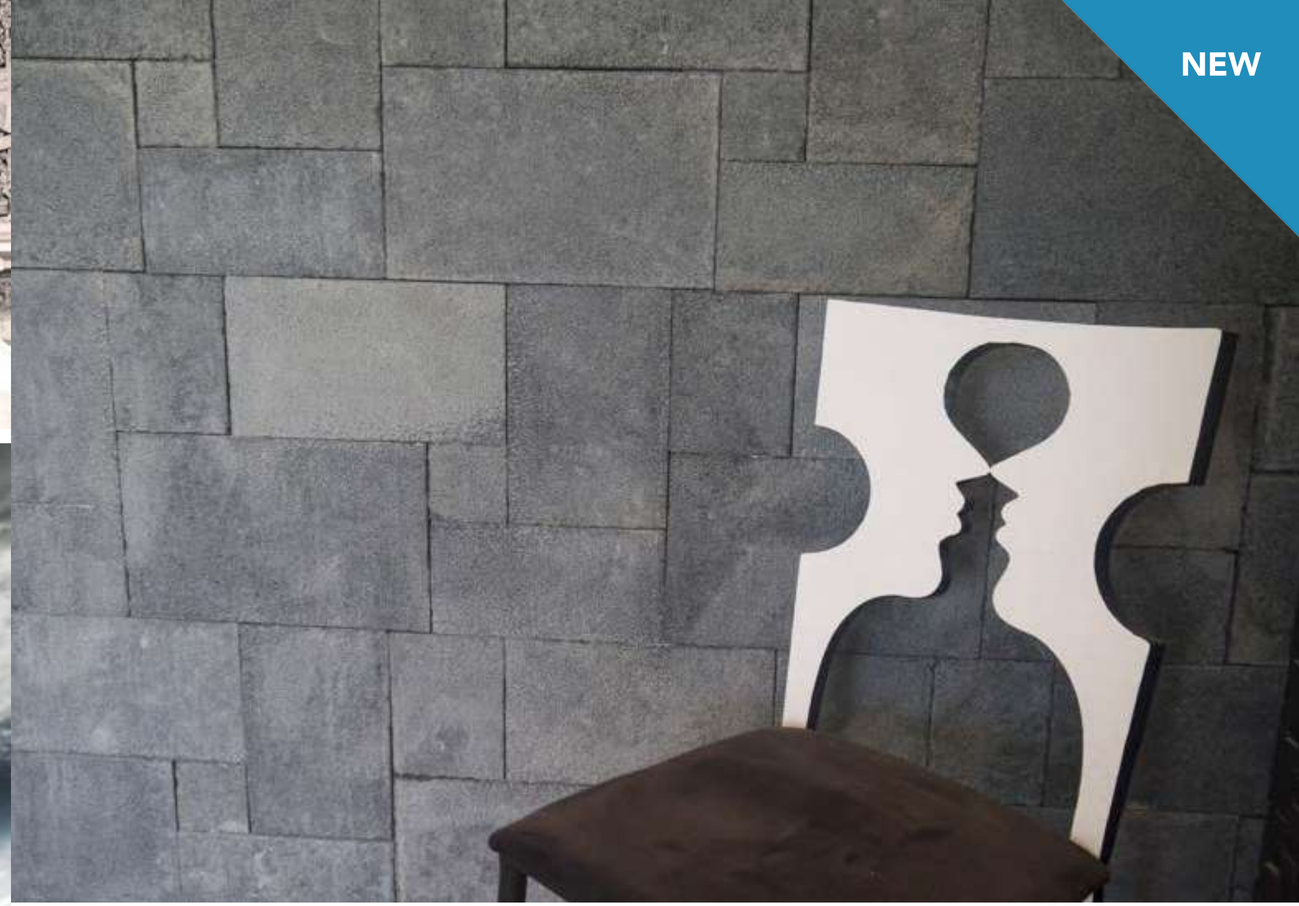
IRON MOUNTAIN

TYPE	FLATS	CORNERS
L	✓	✓

NEW

ISLA BLANCA

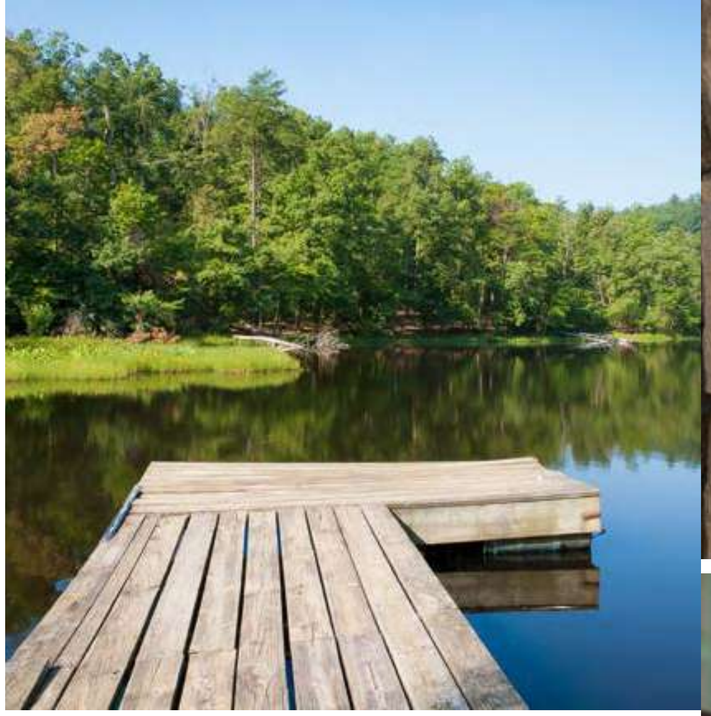
TYPE	FLATS	CORNERS
M	✓	N/A



NEW

ISLA OSCURA

TYPE	FLATS	CORNERS
M	✓	N/A



KENTUCKY LIMESTONE

TYPE	FLATS	CORNERS
L	✓	✓

MANCHESTER LIMESTONE

TYPE	FLATS	CORNERS
L	✓	✓

NEW

MILWAUKEE LIMESTONE

TYPE	FLATS	CORNERS
L	✓	✓

MONTANA QUARTZ

TYPE	FLATS	CORNERS
Q	✓	✓

MONTPELLIER

TYPE	FLATS	CORNERS
L	✓	✓

MOUNT GRIZZLY

TYPE	FLATS	CORNERS
L	✓	✓

NESTOS RIVER

TYPE	FLATS	CORNERS
G	✓	N/A

OCEAN WAVE

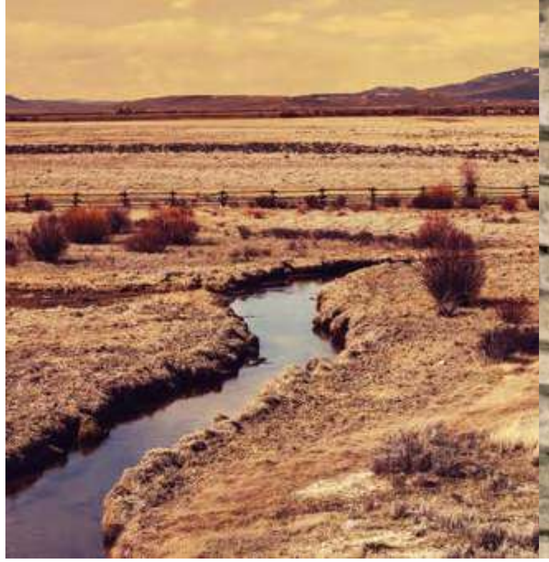
TYPE	FLATS	CORNERS
L	✓	✓

ODYESSA

TYPE	FLATS	CORNERS
L	✓	✓

OTTAWA SANDSTONE

TYPE	FLATS	CORNERS
S	✓	✓



PRAIRIE SANDSTONE

TYPE	FLATS	CORNERS
S	✓	✓

NEW

PUEBLO BLANCO

TYPE	FLATS	CORNERS
M	✓	N/A

RECLAIMED BRICK

TYPE	FLATS	CORNERS
BRICK	✓	✓

REVELSTOKE MICA

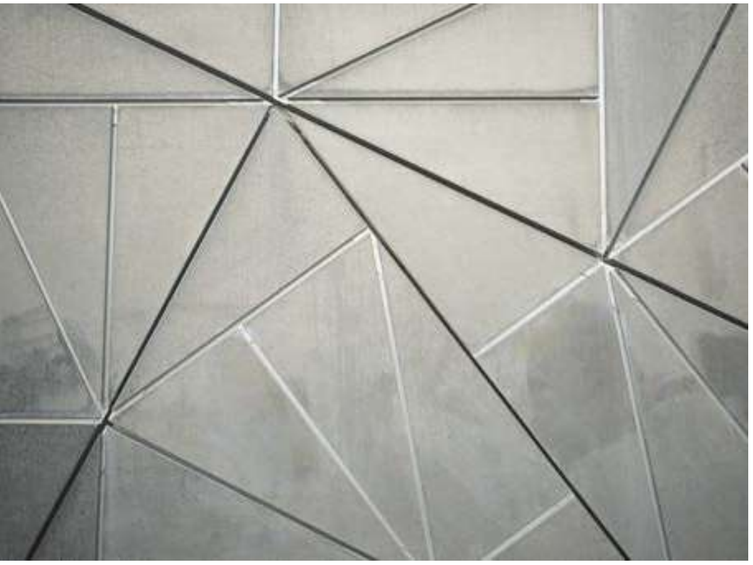
TYPE	FLATS	CORNERS
Q	✓	✓

ROBINSON RIDGE

TYPE	FLATS	CORNERS
Q	✓	✓

RUNDLE

TYPE	FLATS	CORNERS
L	✓	✓



RUNDLE SHALE

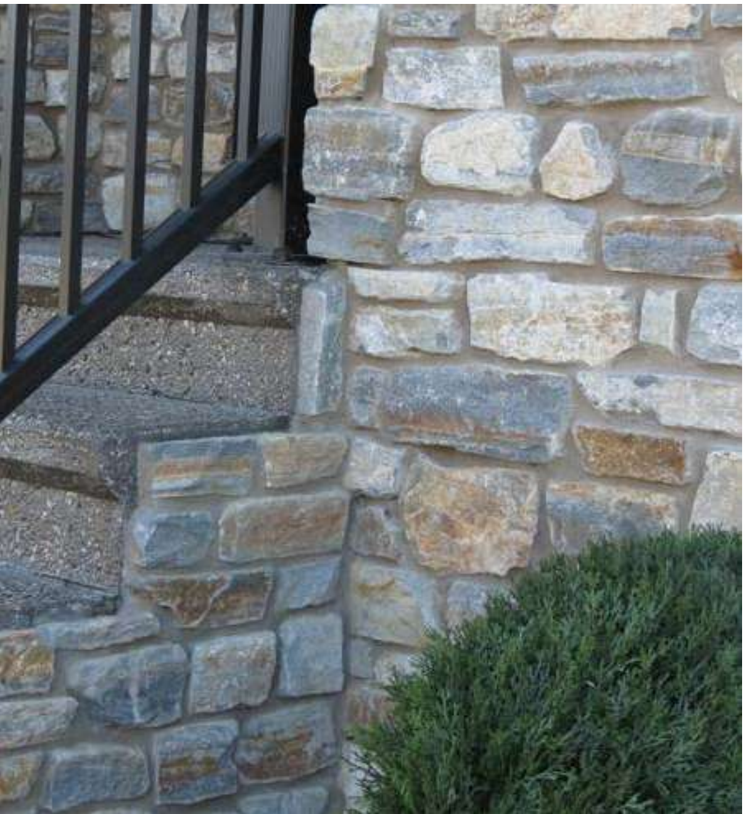
TYPE	FLATS	CORNERS
L	✓	✓

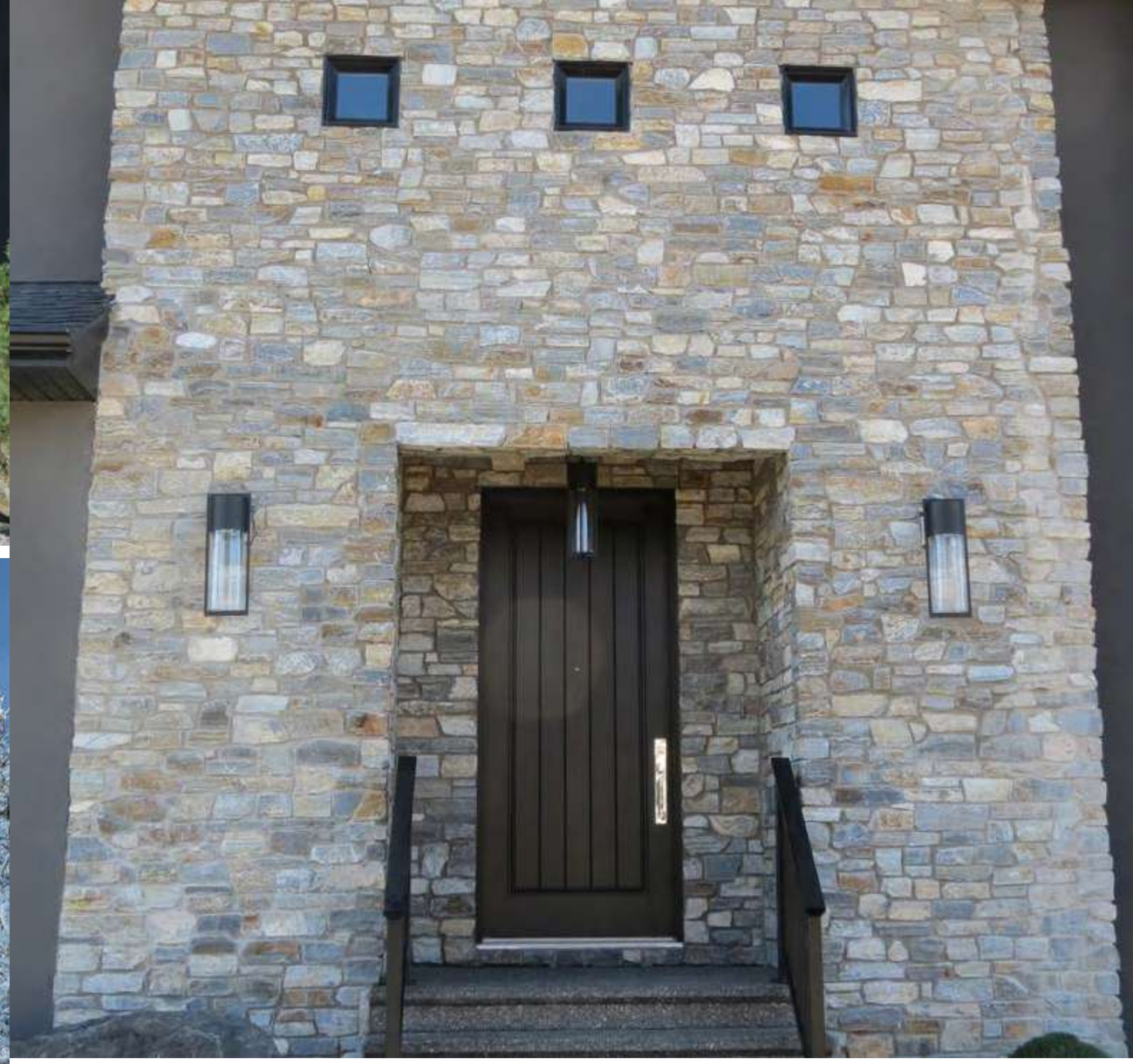
SAN FRONTE

TYPE	FLATS	CORNERS
L + S	✓	✓

SAND DUNE

TYPE	FLATS	CORNERS
L	✓	N/A



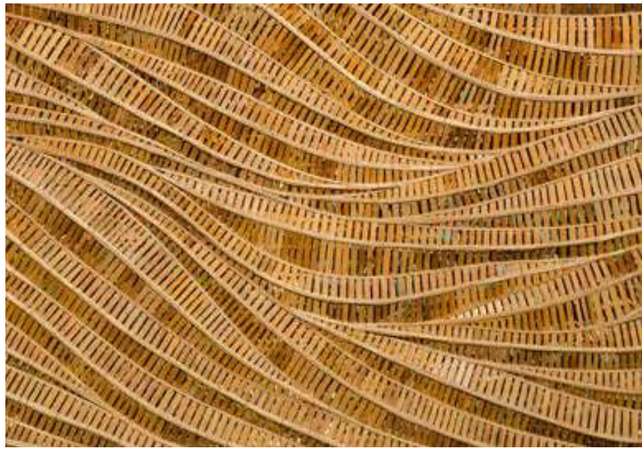


SILVER SLIDE

TYPE	FLATS	CORNERS
L	✓	✓

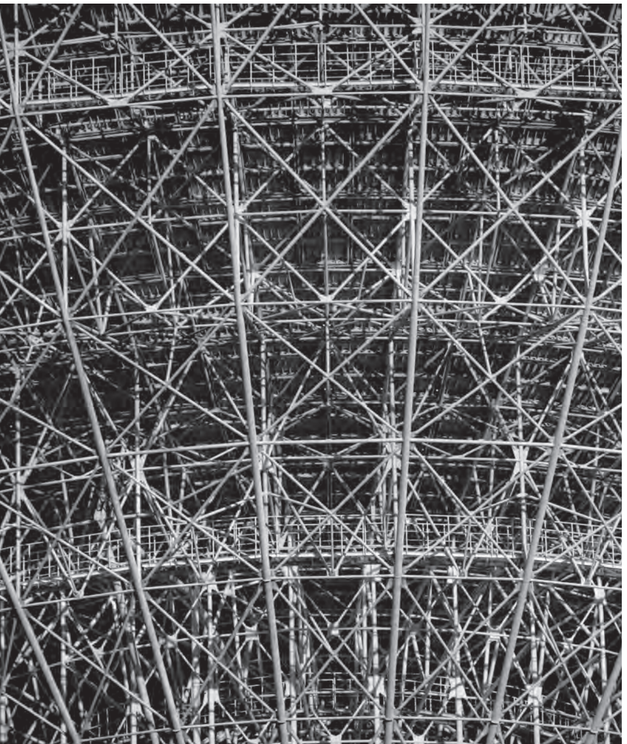
SPRING CREEK

TYPE	FLATS	CORNERS
G	✓	✓



ST. BONIFACE

TYPE	FLATS	CORNERS
L + Q	✓	✓



ST. LAURENT

TYPE	FLATS	CORNERS
G	✓	✓

TUSCAN RIDGE

TYPE	FLATS	CORNERS
L + Q	✓	✓

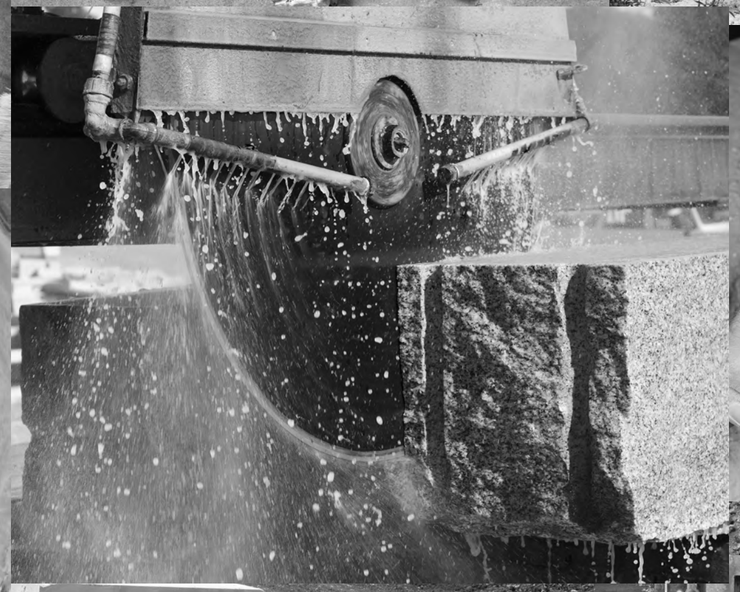
Stone Concept offers custom cutting no matter how simple or intricate your project may be. We cut each stone to precisely match your architectural specifications in order to transform your dream into reality.

CUSTOM CUTTING







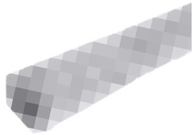





BRAZILIAN BLACK LIMESTONE FLAMED

H x D x L

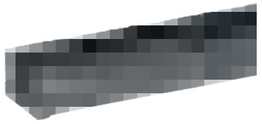
2" X 2.5" X 39"



BRAZILIAN BLACK LIMESTONE HONED

H x D x L

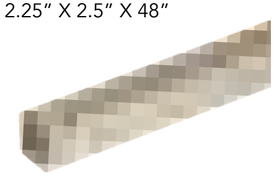
2" X 2.5" X 39"



BUFF LIMESTONE

H x D x L

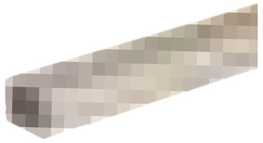
2.25" X 2.5" X 48"



SANDSTONE

H x D x L

2" X 2.5" X 39"



TYPES OF STONE

G GRANITE

L LIMESTONE

M MARBLE

Q QUARTZ

S SANDSTONE

SILLS

INTRODUCTION

Natural stone has been used for thousands of years. Since ancient times, it has been an enduring symbol of affluence, beauty, and pure brilliance. It is the world's premier building material promising timeless and elegant design with unique properties every time.

Today's machinery has the ability to cut natural full dimensional stone to natural thin veneer (averaging 1-1/4 inch thickness) and in some cases cut 90 degree corners which are used for corner applications, concealing the true thickness of the stone. Our Natural Thin Stone Veneer weighs up to 75% less than full thickness veneer which in turn reduces production, shipping, and construction costs consequently decreasing environmental impact. In addition, Natural Thin Stone Veneer can be installed without footings or ledges and adheres to concrete, plywood, paneling, and drywall.

PRODUCT COMPARISON MATRIX

Characteristics	Natural Thin Veneer	Full Thickness Veneer	Man-Made Veneer
Colour Availability	Natural tones and hues, no unnatural reproductions	Natural tones and hues, no unnatural reproductions	Predictable manufactured colours. Unpredictable consistency
Material Composition	Entirely natural stone	Entirely natural stone	Cement, oxide colours, various aggregates and other chemicals
Durability	New application of proven material	Proven over centuries	Short history, warranties are needed to promote product
Design Flexibility	Allows creative and custom patterns	Allows creative and custom patterns	Defined and predictable patterns. Limited to number of molds
Product Availability	Abundant	Abundant	Limited to cement and geographical availability
Colour	Maintained throughout life of product	Maintained throughout life of product	Prone to fading over time
Application	Interior/ Exterior capabilities without footing or ledges making it great for remodeling and interiors.	Interior/ Exterior capabilities. Must be reinforced by footing and ledges to carry weight.	Interior/ Exterior capabilities without footing or ledges making it great for remodeling and interiors.

GENERAL INFORMATION

Installation

Stone Concept Ltd. can quote full package pricing for large scale projects. Should you require a mason and/ or general contractor, for your home or small project, Stone Concept Ltd. will be happy to recommend a qualified company.

Distribution Information

Stone Concept Ltd. does not have a distributor. We go direct to the quarry and rather than absorbing that savings, we pass it on to our clients. This is why our prices are second to none in the industry.

Cost

Natural Thin Stone Veneer is priced per square foot. Prices will vary due to such variables as shipping cost, installation applications, and material costs. Materials are usually packaged in certain units such as pallets or boxes and is sold by sq. ft. Always allow an overage of 10% for selection of product, overage and breakage. Cost savings on Natural Thin Stone Veneer are typically realized in the shipping and installation portion of the quote.

INSTALLATION PROCEDURES

Type
Natural Thin Stone Veneer is 100% natural quarried stone.

Packaging
Stone Concept Ltd. packages in pallet form in a durable non-staining, protective packaging intended to minimize damage during shipping and outdoor storage. It is recommended to stay on pallets and stored off the ground to protect stone from environmental elements.

Quality
Our Natural Thin Stone Veneer meets minimum quality standards as follows:

- Thickness range: 3/4" minimum to 2" maximum
- Weight per square foot: no more than 15 lbs per square foot
- Face area: Minimum 1/8 sq. ft. per face with minimum dimension of 2" in any direction.
- Corner stones: Minimum of 3" length on return on any exposed side.

Usage
Natural Thin Stone Veneer offers unique beauty that only natural stone can provide but is designed for a lightweight non-structural installation. A support ledge is not needed for a successful installation, provided the natural thin stone veneer weight is 15 lbs. per square foot or less.

WATERPROOFING PROCEDURES

Waterproofing is an extremely important process which must meet or exceed all local building codes and Stone Concept Ltd. recommends that a highly qualified waterproofing company/contractor or knowledgeable mason adhering to industry standards handle this portion of the installation.

Moisture Control
Moisture-resistant barrier can be applied to all vertical wood or moisture-sensitive backup walls. Overlap adjacent sheets of moisture barrier at a minimum of 2" on horizontal joints and a minimum of 6" on vertical joints.

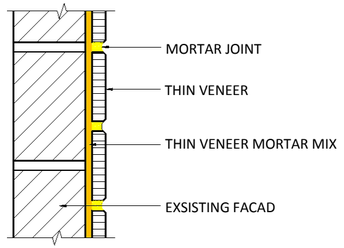
Flashing
It is imperative to provide a weather shield, flashing, or caulk at all material transition points and at all areas that could lead to possible moisture penetration, including all window and door openings, electrical outlets, electrical fixtures and plumbing fixtures. Flashing needs to be applied under water tables and sills, and the base of walls where the veneer meets a brick or other ledge types.

Caulk
Bring lath as close as possible around electrical outlets, and then caulk between the outlet and the lath. Apply silicone caulk to the sides of all windows and doorways. Caulk all joints which occur between thin stone veneer and dissimilar materials like wood, glass, vinyl, and also at all control and movement joints which occur in the structure. Use backer rods in caulked control joints to allow for proper joint movement during expansion and contraction.

GENERAL SURFACE PREPARATION

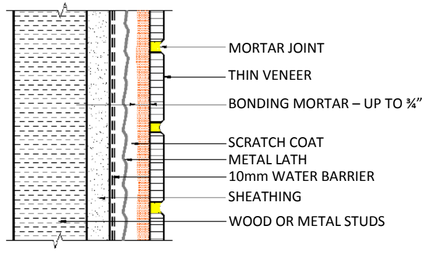
Any chemical film / paint on the wall needs to be removed. In many cases the film may be removed with sandblasting or etching with masonry detergents. The use of acid to remove the film is also a consideration.

Concrete Block or Brick
Stone veneer can be applied directly over any new or existing concrete block or brick surface provided that the existing surface is sound and without defects, and that the surface has not been painted or sealed. For poured concrete walls, all form release chemicals should be either sandblasted or removed with a masonry detergent before application.



Framed Exterior Walls
All wood surfaces require the application of non-corrosive wire lath and a setting mix (between 1/2" - 1" thick) before applying natural thin stone veneer. Studs in walls are covered with exterior grade wood sheathing or cement mesh mortar units as chosen by builder. Minimum thickness of 1/2" is recommended.

Metal Lath
After the first piece of lath is correctly placed at the bottom of the wall, continue up the wall overlapping a minimum of 3" for each piece of lath from the bottom to the top. Wrap metal lath around and overlap at corners a minimum of 16". Use self-furring, non-corrosive, expanded metal lath, 2.5 lbs per yard weight. Use galvanized, barbed nails (or another quality anchor system such as galvanized screws and washers) at 6" vertical centers, in line with wall stud horizontal spacing. Place nails in furring groove or dimples to preserve 1/4" furring away from wall of metal lath. Overlap horizontal joints of lath a minimum of 1" and vertical joints a minimum of 1". A paper-backed metal lath can be utilized to avoid the need for a separate moisture control barrier being applied prior to the metal lath.



DESCRIPTION

Mortar Type
Type N or S mortar is used for installing Natural Thin Stone Veneer depending upon the type of stone being installed.

Bonding Admixtures
The use of a bonding admixture with the mortar may be recommended to add bonding strength. Please refer to the selected bonding agent instructions for recommended mixture quantities. Extra care should be taken when using bonding agents since dropping can be difficult to remove once they cure. The use of an epoxy, thin set and/or construction adhesives should only be used in interior applications. Admixtures are necessary for all soffit or overhead conditions.

Setting Natural Thin Stone Veneer
Once the metal lath and the scratch coat have been applied, installation of the natural thin stone can proceed.

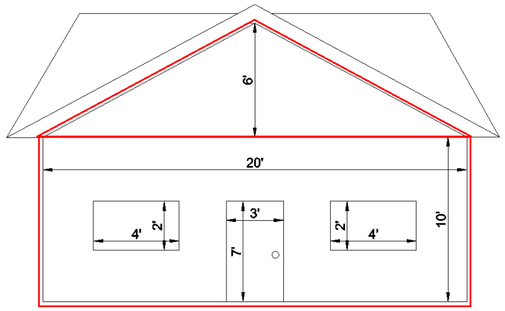
- If corner pieces are required for the application it will be best to start with the corners first. This will provide a better guide for your pattern to continue around the corner.
- Most corner pieces will have a long end and a short end. These pieces should alternate in opposite directions, as they are stacked, one upon the other.
- The back of each stone should be covered 100% with a thickness of at least 1/2" of mortar. A bit more mortar can be added towards the center of the back of each stone.
- The stone should be pressed firmly against the scratch coat wall to ensure a sound bond.
- Extra mortar will ooze out around the edges as each stone is set in place. This extra mortar will fill in around the stone creating your grout joints.
- If you choose not to use this method to fill the joints, then the joints can be filled with grout using a grout bag and/or a tuck pointing tool.
- Make sure to create control and movement joints in the veneer in the same places that they exist in the structure. These control and movement joints serve to allow for the movement of the structure as it settles and moves from environmental changes. Consult a local contractor, your builder, or structural engineering professional to determine the need for these special joints.

MAINTENANCE

Cleaning
If mortar contacts the face of the stone, allow it to dry slightly and then pick the mortar from the face. If removed when very wet, the mortar can smear and cause more work later. If a bonding admixture is used in the mortar then remove the mortar as soon as possible by dry brushing and then damp sponge. Do not attempt to smear the mortar. It is suggested to wet the stonework down with water and then to apply a mild cleaning detergent with a soft bristle brush to remove any dirt or mortar smear left from the installation. DO NOT USE ANY TYPE OF ACID. Always wet the stone first before applying any cleaning solutions to prevent over-absorption of the cleaning solution. Cleaners perform differently and your needs will vary depending upon the stone used. Pressure washing is recommended yearly to avoid natural environmental buildup.

Sealing (optional)
If a sealer is required, first check with Stone Concept Ltd. as to a sealer that may be recommended for your stone. Topical sealers and impregnators are available for application when enhancement of the color or water repellency is required. Make sure to choose products which are not harmed by ultra-violet rays, alkali, do not yellow, and do not interfere with evaporation of moisture through the stone. Always test a small area before full application. Once sealers are applied to the stone it must be considered that re-application of the sealers will be necessary over time. Longevity varies and re-sealing times can range from 1 year to 10 years depending on the product, application, and exposure. The sealer should not be applied until the stonework and mortar has time to completely cure. EXTREMELY IMPORTANT: The installation instructions by the sealer manufacturer must be followed.

CALCULATING MATERIAL REQUIREMENTS



1. **Establish and measure surface to be cladded.**
   Ex. Rectangle and Triangle
2. **Calculate area of each shape.**
   Ex. (rectangle) H __ft. x W__ft. = __ sq. ft.
   (triangle) H __ft. x W __ft. ÷ 2 = __ sq. ft.
3. **Add amounts together.**
4. **Calculate areas of the shapes not to be cladded.**
   (i.e.) windows, doors, etc. and subtract from the overall cladded area.
5. **Subtract the area of the windows/ doors, etc. from the total amount to be cladded.**
6. **Add 10% for breakage and overage**

EXAMPLE:
Rectangle: 10' x 20' = 200 sq. ft.
Triangle: 6' x 20' ÷ 2 = 60 sq. ft.
Windows: 2' x 4' = 8 sq. ft. x 2 windows = 16 sq. f.t
Door: 7' x 3' = 21 sq. ft.

TOTAL: 200 + 60 = 260 - 16 - 21 = 223 + 10% = 245.3 ☐'

stone
/stōn/

klip **guri** daş harri kamen ***pedra***
bato kámen sten steen stone ŝtono
kivi bato kivi pierre pedra Stein
wòch **dutse** pob zeb **kő** steinn
nkume *batu* cloch pietra watu
lapis akmens akmuo ***batu*** ġebel
kohatu stein kamień pedra piatră
kameň ***kamen*** dhagax piedra jiwe
sten **taş** đá cerrig okuta *stone*

IMPORTANT! PLEASE NOTE : THE COLOURS OF THE NATURAL STONE SHOWN IN THIS MAGAZINE ARE NOT COMPLETELY ACCURATE DUE TO THE PHOTOGRAPHIC AND PRINTING PROCESS. WHEN MAKING YOUR FINAL STONE SELECTION, MAKE SURE YOU DO BASED ON AN ACTUAL SAMPLE OF THE PRODUCT. THE STONE IS A NATURAL PRODUCT THERFORE THE COLOUR, TEXTURE AND SHAPE MAY VARY.

www.stone-concept.ca

Authorized Distributor:

CALGARY	DESIGN CENTRE	#8, 603 - 77 Avenue SE, Calgary, AB, T2H 2B9	403.454.6621
CALGARY	MASONRY SUPPLY YARD	5225 - 6 Street SE, Calgary AB, T2H 1M2	403.984.4948
EDMONTON	DESIGN CENTRE	12608 - 126 Street, Edmonton, AB, T5L 0X6	587.597.8663
VANCOUVER	DESIGN CENTRE	1767 West 3rd Avenue, Vancouver, BC, V6J IK4	604.428.0406
LANGLEY	UDR CENTRE	5837 Production Way, Langley, BC, V3A 4N5	604.532.0865
KELOWNA	DESIGN CENTRE	#1 - 1580 Innovation Drive, Kelowna, BC, V1V 2Y5	250.870.6185

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