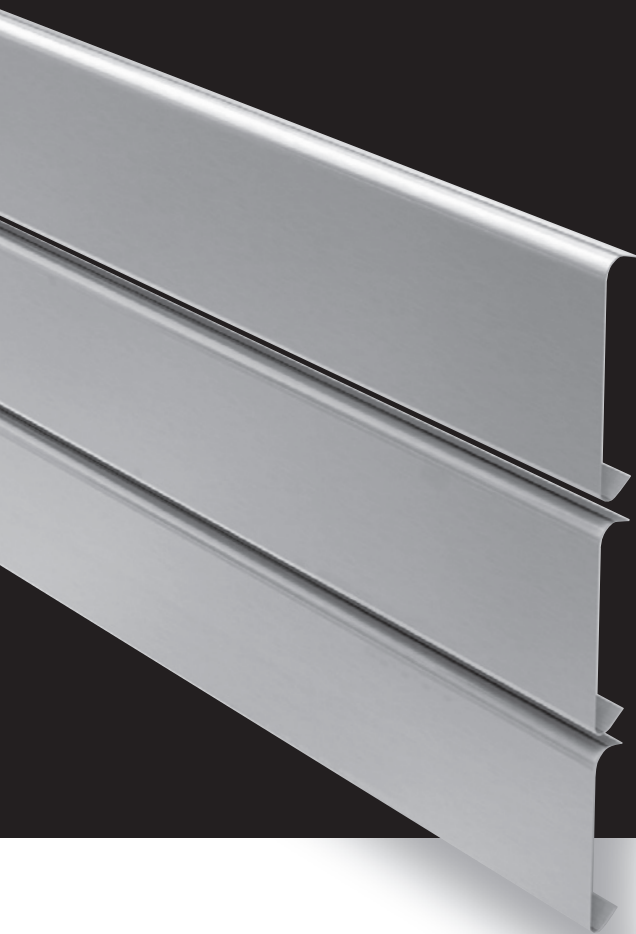




# 84R Façade System

HunterDouglas® 84R Façades are particularly suited to large surface areas and offer excellent design, functionality and comfort with an outstanding visual appeal.



**HunterDouglas**   
Architectural



# 84R Façade System

Visually crisp, clean and dynamic



**DESIGN FLEXIBILITY**

The Open Structure Façade system provides architects with an opportunity to design a cladding system that creates a visually crisp, clean and dynamic finish to a building’s façade. Traditionally built with linear panels, Open Structure Façade systems enable light and air to travel through the system whilst maintaining excellent acoustic performance.

**ECONOMICAL**

Our 84R Façade System is an economical cladding and soffit solution without compromising on technical performance. Single Skin façades create smooth, profiled surfaces that are ideal for new and refurbished projects. They are easy to install, are lightweight and available in a wide range of materials, colours and profiles.

**DURABILITY**

The high quality components, used to manufacture the Panels, deliver high performance and low maintenance: products built to last.

**SYSTEM FEATURES**

The Hunter Douglas Architectural Façade system 84R consists of 84 mm wide roll formed round edge panels, which are simply clicked on the carrier system to form eye catching horizontal or vertical lines.

- Made to measure from 800 mm up to 6000 mm, panels can be joined by using the panel splice.
- A range of standard carriers to create different appearance.
- Open joint system can be created for profiles requiring open areas for ventilation and acoustics.
- Curved façades can be achieved using 84R curved panels.
- Wide range of Luxacote® finishes.

**APPLICATION**

- Façades and external envelope
- Exterior walls, ceilings and balconies
- Canopies
- New build or renovation of existing building

**CLOSED OR OPEN FAÇADE**

84R are roll formed panels made of aluminium, with smooth round edges that provide an elegant and light appearance. Depending on the chosen carrier there is an open joint between the panels, which can be closed using reverse panels or joint profiles to create a visually closed façade.



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Designed to work for you



Production by  
Hunter Douglas  
Ceiling Center





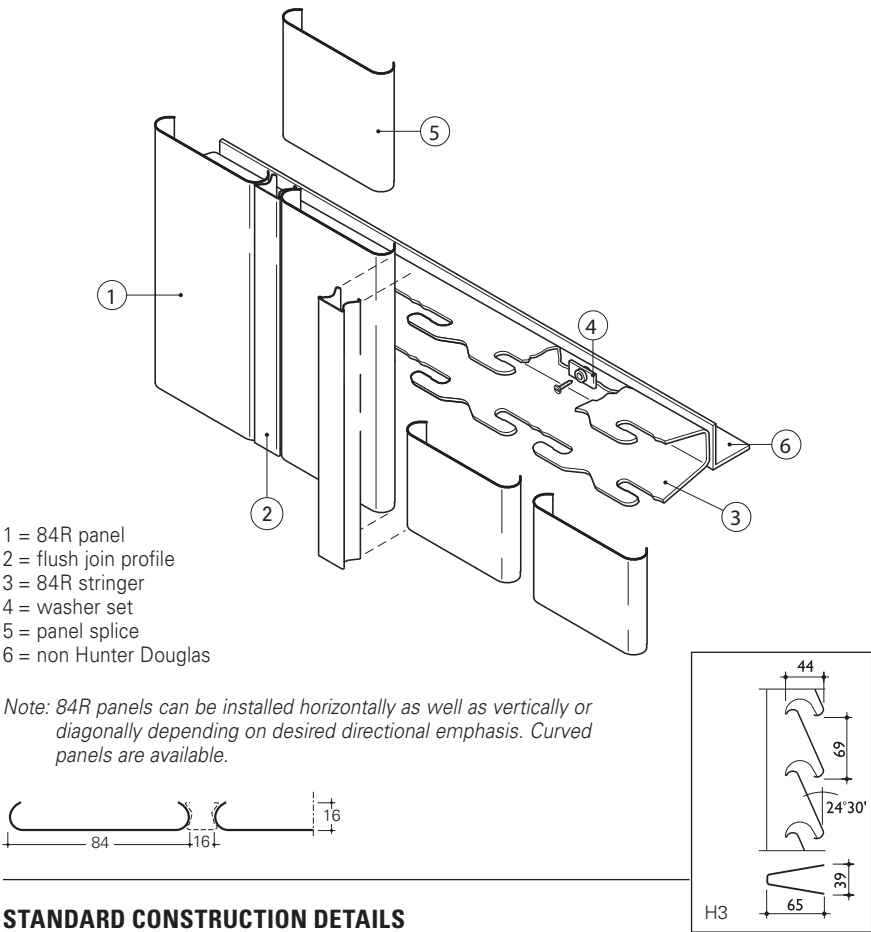
# 84R Façade

## PANELS

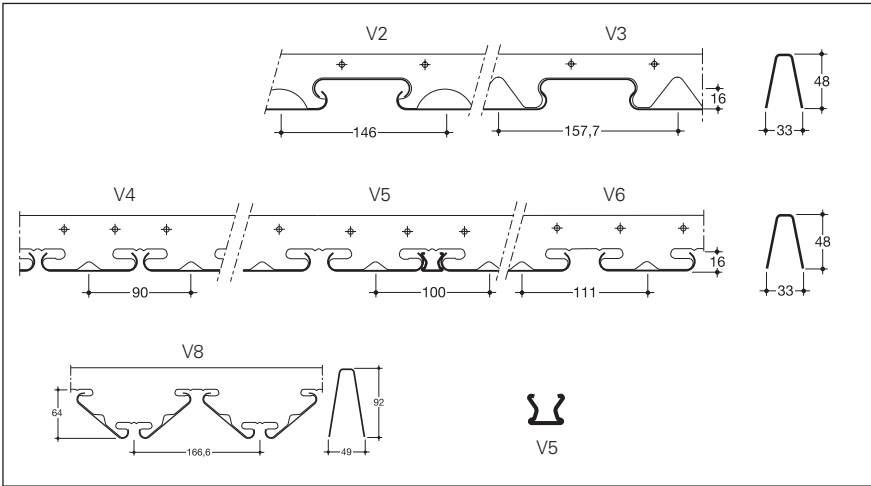
The Hunter Douglas 84R Façade System consists of 84 mm wide roll formed round edged panels (1), which are simply clicked on the prongs of a 84R stringer (3) to form horizontal or vertical lines. The stove enamelled aluminium panels are recyclable, lightweight and strong. The panels are made to measure and can be supplied in any length from 800 up to 6000 mm (other lengths are available on request). Panels can be joined by using the panel splice (5) or by means of panel overlap. Between the panels there is an open joint. Depending on the type of stringer used, these joints can be filled with a flat joint profile (2). Alternatively, recessed reverse panels are also possible (on V2/ V3 stringers) to form a closed façade appearance. The join profiles or reversed panels are simply placed into the open joint by hand, without using any tools. The stringer (3) is black, made of 0.95 mm thick stove enamelled aluminium and is provided with prongs to accommodate the panels. Different modules are available (see system overview). Stringers have a standard length of 5000 mm.

## PRACTICAL APPLICATIONS

- Between the panels there is an open joint, which can be closed with reversed panels or join profiles. The panels combined with these provide a visually closed façade.
- Open joint systems can be created for all applications requiring open area for ventilation, acoustics etc.
- Curved façades can be achieved by using curved 84R panels.
- The façades have a concealed fixing system.
- Panel length made to measure from 800 up to 6000 mm, allowing for swift installation and reducing the need for joining the panels to a minimum.
- Panels are made from a corrosion resistant aluminium alloy.
- The Luxacote® coating combined with aluminium of the highest category for corrosion resistance, guarantees:
  - Colour and gloss stability;
  - High scratch resistance;
  - High corrosion resistance.
- Façades are based on a ventilating principle providing optimum control for building physics.
- Can be combined with 84R Sun Louvre system in order to obtain a very open facade.



## STANDARD CONSTRUCTION DETAILS



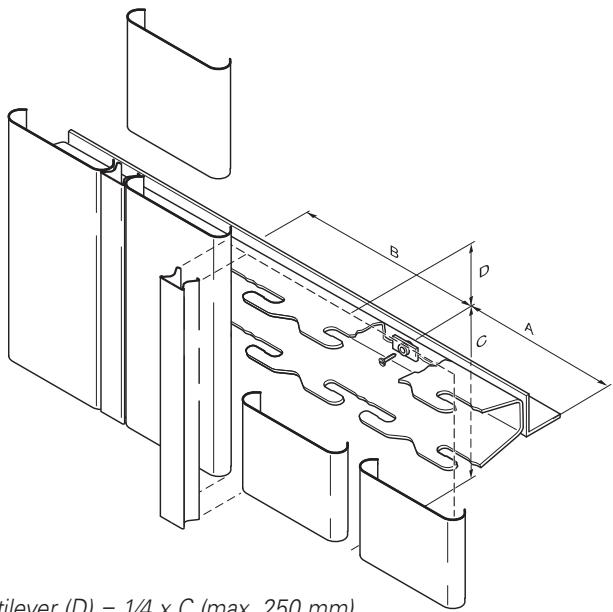
## DIMENSIONS, WEIGHT & MATERIAL REQUIREMENTS M²

Stringer type	V2	V3	V4	V5	V6	V8	H3
Module	146	157.7	90	100	111	166.6	69
Panels (lm)	6.85	6.34	11.11	10	9	12	14.49
Reversed panels (lm)	6.85	6.34	-	-	-	-	-
Join profile (lm)	-	-	-	10	-	12	-
Stringers (lm)	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Washer sets/screws (pcs)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Excl. joint or reversed panels (kg)	1.44	1.35	2.2	2	1.8	2.58	2.9
Incl. joints or reversed panels (kg)	2.7	2.5	-	2.5	-	2.98	-

The required number of components depends on individual project requirements. Figures are based on a façade installed on 3 or more stringers and submitted to a windload of 1500 N/m².

# 84R Façade

## MAXIMUM SPANS

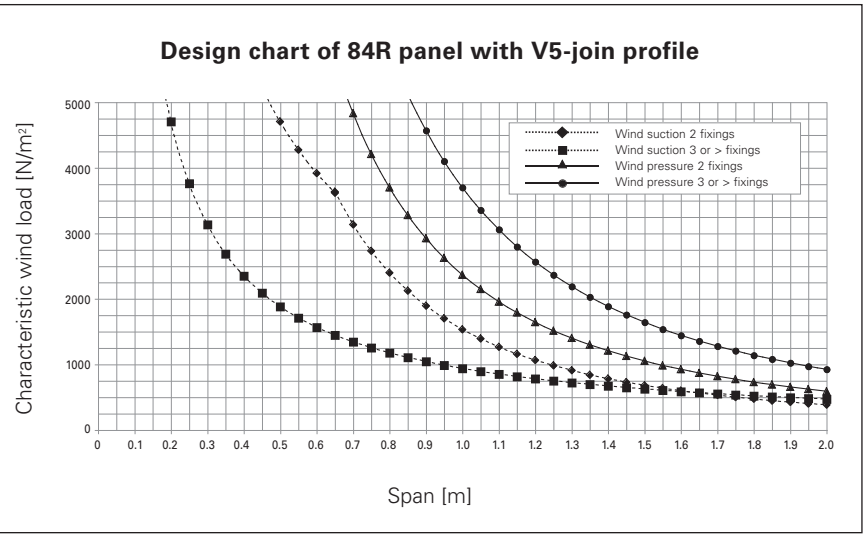


## - Panel span (C)

The panel spans, in relation to the wind load (pressure or suction), can be calculated from the graph. At 1500 N/m² the maximum panel span for 84R is 0.625 m on 3 or more stringers (windsuction).

Panel span max. 0.8 m when using flush join profiles.

Note: Wind pressure/suction shall be determined with due consideration to the relevant local country's Standard Codes of Building Practice.

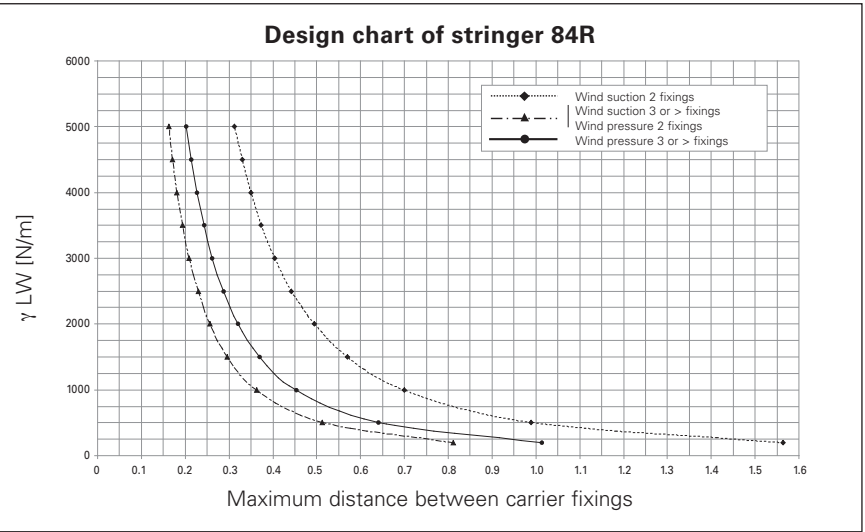


## - Stringer span (B)

Before establishing the fixing distance of the stringers, the load per lineal meter stringer is to be determined by applying the formula in the following table.

Panels installed on:	Calculation of 'load per lineal meter stringer'
2 stringers	0.5 x q x l
3 stringers	1.25 x q x l
4 or more stringers	1.15 x q x l

q = windload in N/m² (uniformly distributed loads)  
l = panel span (c) in m



Following the example:  
Q = 1,15 x 1500 x 0,625 = 1078 N/m.  
Giving a fixing distance of 0,34 m.



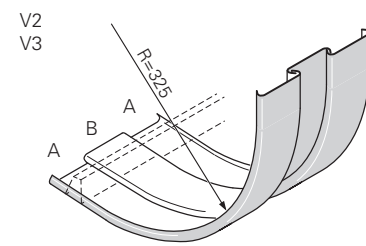
# 84R Façade (Curved)

## LUXALON® 84R CURVED PANELS

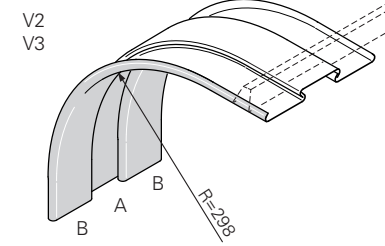
The Hunter Douglas 84R Façade System allows architects to build curves into their designs, creating soft, undulating shapes, re-entrant curves and bulkheads. Any angle up to 90° with either a fixed radius of approximately 325 mm or a variable radius with a minimum of 1000 mm can be specified.

The curved panels for exterior façades and ceilings can be used with the stringer types V2 to V6. The recessed joint profile for stringer type V5 is also available with the same curvatures. Panelling can be continued from the ceiling, to the façade or partly clad the wall, with an imperceptible joint between horizontal and vertical panels.

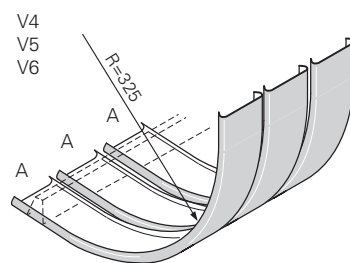
### OUTSIDE CORNER



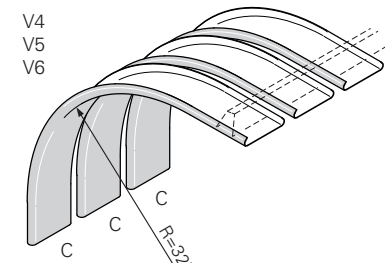
### INSIDE CORNER



### OUTSIDE CORNER

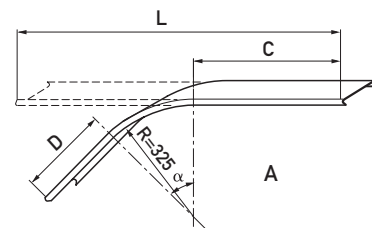


### INSIDE CORNER

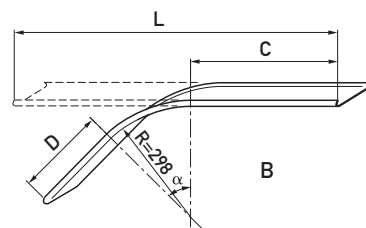


## PANEL LENGTH CALCULATION

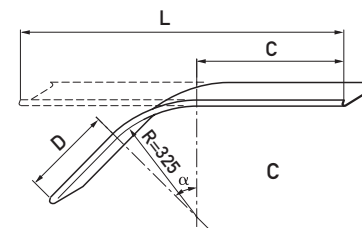
Depending on the type of corner and the corner angle required, the drawings and formula below will give you information to calculate the developed panel length (L). C and D represent the length of the straight panel beyond the corner, and  $\alpha$  the angle required.



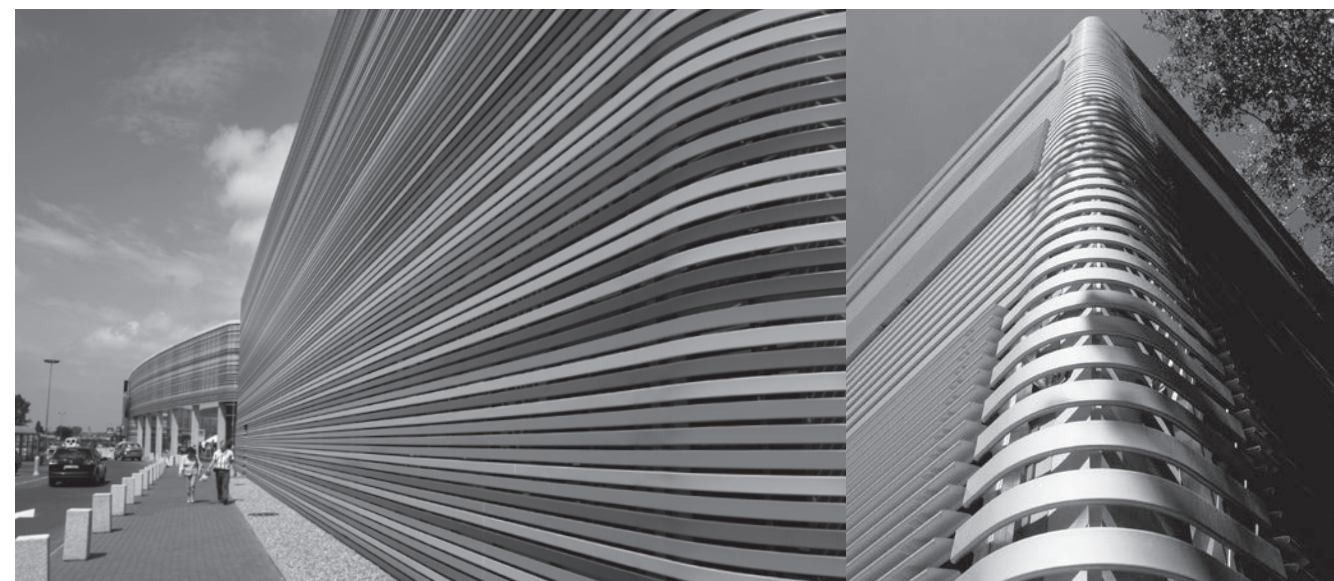
$$L = C + D + (\alpha \times 5.62)$$



$$L = C + D + (\alpha \times 5.25)$$

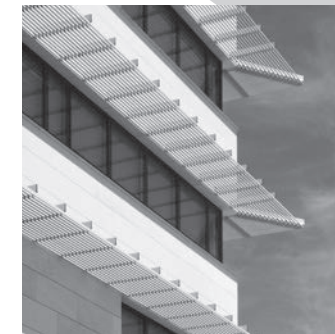


$$L = C + D + (\alpha \times 5.72)$$



## HUNTER DOUGLAS ARCHITECTURAL

In the last 60 years, we have been fortunate enough to help turn countless innovative ideas into products for innovative buildings. With major operation centres in Europe, North America, Latin America, Asia and Australia we contribute to thousands of high-profile projects including shopping centres, airports, government offices, hospitals, universities and offices.



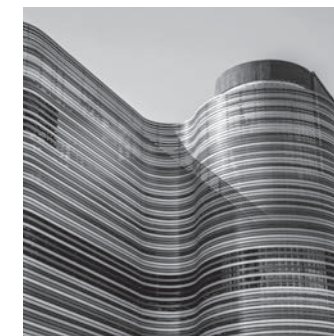
▲ SUN LOUVRES



▲ CEILINGS



▲ CEILINGS



▲ FAÇADES

## ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers, and installers. We assist architects and developers with recommendations regarding materials, shapes and dimensions, colours and finishes.

We also help creating design proposals, visualisations, and installation drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.

# Designed to work for you



Hunter Douglas adopts the cradle to cradle (C2C) product philosophy to the design of products that fit the circular paradigm. They are designed for longevity, using materially healthy technical nutrients that can be reused at end of life as a high-quality source for something new.

Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.



*Hunter Douglas products and solutions are designed to improve indoor environmental quality and conserve energy, supporting built environments that are comfortable, healthy, productive, and sustainable.*

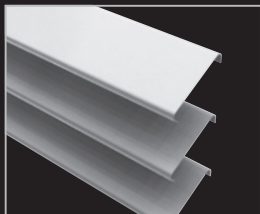


*All aluminium products are 100% recyclable at the end of their lifecycle.*

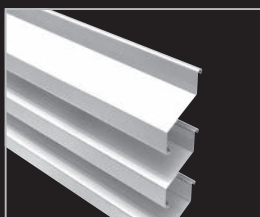


## Learn More

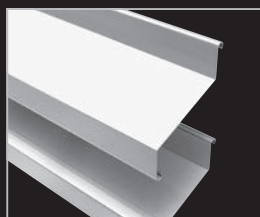
- Contact our Sales office
- [www.hunterdouglasarchitectural.eu](http://www.hunterdouglasarchitectural.eu)



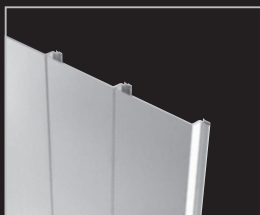
84R



70S



132S



150F/200F

Belgium  
Bulgaria  
Croatia / Slovenia  
Czech Republic  
Denmark  
France  
Germany  
Greece  
Hungary  
Italy  
The Netherlands  
Norway  
Poland  
Portugal  
Romania  
Russia  
Serbia  
Slovakia  
Spain  
Sweden  
Switzerland  
Turkey  
United Kingdom  
Africa  
Middle East  
  
Asia  
Australia  
Latin America  
North America

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