THE STOPOREN FACADE SYSTEM HAS BEEN APPRAISED AS AN EXTERNAL WALL CLADDING SYSTEM FOR BUILDINGS WITHIN THE FOLLOWING SCOPE:

- THE SCOPE LIMITATIONS OF NZBC ACCEPTABLE SOLUTION E2/AS1, PARAGRAPH 1.1; AND,
- CONSTRUCTED WITH TIMBER FRAMING COMPLYING WITH THE NZBC; AND,
- WITH A RISK SCORE OF 0-20, CALCULATED IN ACCORDANCE WITH NZBC ACCEPTABLE SOLUTION E2/AS1, TABLE 2; AND,
- SITUATED IN NZS 3604 WIND ZONES UP TO, AND INCLUDING 'EXTRA HIGH'.

THE STOPOREN FACADE SYSTEM HAS ALSO BEEN APPRAISED FOR WEATHERTIGHTNESS AND STRUCTURAL WIND LOADING WHEN USED AS AN EXTERNAL WALL CLADDING SYSTEM FOR BUILDINGS WITHIN THE FOLLOWING SCOPE:

- THE SCOPE LIMITATIONS OF NZBC ACCEPTABLE SOLUTION E2/AS1, PARAGRAPH 1.1; AND,
- CONSTRUCTED WITH TIMBER OR STEEL FRAMING COMPLYING WITH THE NZBC; AND,
- SITUATED IN SPECIFIC DESIGN WIND PRESSURES UP TO A MAXIMUM DESIGN DIFFERENTIAL ULTIMATE LIMIT STATE (ULS) OF 2.5 KPA.

NOTE: REFER TO STOPOREN FACADE SYSTEM FOR COMPREHENSIVE SET OF ACAD DETAILS

INCORPORATING:

1. S-PROTECT WS 205 SEALER TO SEAL POREN PANELS
2. STOPOREN RENDER 25kg BAG
3. STOPLEX W SEALER 10lt CONTAINER
4. STOLIT K or MP COLOURED FINISHING RENDER 25kg PAIL
5. STOCOLOR MAXICRYL FAÇADE PAINT 15lt PAIL
   STOCOLOR LASTIC COLOR FAÇADE PAINT 15lt PAIL
   STOCOLOR LOTUSAN COLOR G 15lt PAIL

STOARMAT MIRAL RENDER SYSTEM
CAN ALSO BE USED FOR ADDITIONAL STRENGTH AND REINFORCEMENT

CAVITY SPACERS FIXING SYSTEM:

- 40mm x MINIMUM 200 LONG H3.1 TIMBER SPACERS FIXED WITH 75 x 3.06 GALVANIZED RING SHANK NAILS AND SECURE PANEL WITH 75MM POREN FIXINGS COUNTERSUNK 10mm.

STO 40mm VH POLYSTYRENE CAVITY BATTENS:

- TEMPORARILY FIX CONTINUOUS STO 40mm CAVITY BATTENS TO FRAMING (OVER WALL UNDERLAY) AND SECURE PANEL WITH 120mm POREN FIXINGS COUNTERSUNK 5mm TO MAXIMUM 12MM.
STOPOREN PANEL
AUTOCLAVED AERATED CONCRETE
DENSITY 600kg/m³
THERMAL RESISTANCE RV 0.30
ON CAVITY CONSTRUCTION
STOPOREN PANEL DIMENSIONS
2200 x 600 x 50mm
FREIGHT
20 PANELS PER DOUBLE PALLET
1.3m³ PER PALLET + PALLET
AREA 1.32sqm EACH
WEIGHT 42kg EACH
POREN 120mm FIXINGS
COUNTERSUNK MAX. 12mm
MAX 300mm FIXING CENTRES
FIXINGS MINIMUM 40mm FROM
THE HORIZONTAL EDGE

STO CAVITY BATTEN
VH POLYSTYRENE
1200 x 50 x 20mm
250 PER PACKET

STEEL REINFORCING

STOPOREN FACADE (40mm cavity) SYSTEM

BEVELED EDGE OF PANEL FACES FRAMING

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WALL UNDERLAY MEETING REQUIREMENTS OF E2/AS1

NOTE: BUILDER REQUIRED TO PROVIDE STRAPS AT MAX.
300mm CENTRES FOR STUDS OVER 450mm CENTRES
H3.1 CAVITY SPACERS AT MAX. 600mm CENTRES ON FRAMING

STOPOREN RENDER SYSTEM
- S-PROTECT WS 205 SEALER
- POREN PLASTER MESH RENDER
- STOLIT K COLOURED FINISHING RENDER
- STOCOLOR PAINT

TIMBER FRAMING TO NZS 3604

DPC CONCRETE FOUNDATION

NOTE:
600mm FRAMING
TWO 75mm POREN FIXINGS EITHER SIDE OF PANEL JOINTS MIN
40mm FROM EDGE INTO CAVITY SPACER

WEATHER PROTECTED VENTS TO ACHIEVE VENTILATION MIN 1000sq mm PER LINEAL METRE

POREN ADHESIVE ON PANEL JOINTS

STO uPVC CONTROL JOINT AT JUNCTION TO FOUNDATION REBATE WITH STOFLEXYL OR LIQUID DPM

See PP 1003 for non rebated foundation

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TIMBER FRAMING
TO NZS 3604
STO VH 40mm or H3.1 TIMBER
CAVITY BATTENS
STOPOREN RENDER SYSTEM
- S-PROTECT WS 205 SEALER
- POREN RENDER
MESH COAT
- STOPLEX W SEALER
- STOLIT K COLOURED
FINISHING RENDER
- STOCOLOR PAINT
WALL UNDERLAY
MEETING REQUIREMENTS
OF E2/AS1

CONCRETE FOUNDATION

DPC

STOPOREN FACADE PANEL
POREN ADHESIVE
ON PANEL JOINTS
STO uPVC
ADJUSTABLE FOOT
TRAY

NOTE:
400mm FRAMING
FIXINGS AT 300mm CENTRES GENERALLY 150mm FROM PANEL
EDGE

SEE PP 1002 FOR REBATED FOUNDATION

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FRAMING STUDS AT 600mm CENTRES
STRAPPING REQUIRED BETWEEN STUDS SPACED AT 600CRS TO RESTRAIN INSULATION FROM ENCROACHING INTO CAVITY

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TIMBER FRAMING TO NZS 3604

DPC

INTERNAL LINING

AS PER NZS 3604

BUILDING UNDERLAY

40mm CAVITY USING SELECTED TIMBER H3.1 SPACERS or STO VH BATTENS

STOPOREN FACADE PANEL

POREN FIXING

WEATHER PROTECTED VENTS TO ACHIEVE MIN. VENTILATION OF 1000mm²/LINEAL METRE POSITIONED HARD ON REBATE

STOFLEXYL OR BITUMINOUS DPM APPLIED TO REBATE

STO UPVC CONTROL JOINT AT JUNCTION TO FOUNDATION

WEATHER PROTECTED VENTS TO ACHIEVE MIN. VENTILATION OF 1000mm²/LINEAL METRE POSITIONED HARD ON REBATE

STOFLEXYL OR BITUMINOUS DPM APPLIED TO REBATE

STO UPVC CONTROL JOINT AT JUNCTION TO FOUNDATION

NOTE: USE 120mm POREN FIXINGS FOR 40mm STO VH CAVITY BATTENS or 75mm POREN FIXINGS ON H3.1 TIMBER SPACERS

EPS, XPS INSULATION FULLY ENCAPSULATED WITH STOFLEXYL WATERPROOFING AND FINISHED WITH STO RENDER SYSTEM

GL

CONCRETE SLAB/REINFORCING AS PER NZS 3604 OR ENGINEER SPECIFIC DESIGN - NOT SHOWN FOR CLARITY

DPC

100mm INSULATION TO EXTERIOR WALLS

INTERNAL LINING

TIMBER FRAMING TO NZS 3604

NOTE: USE 120mm POREN FIXINGS FOR 40mm STO VH CAVITY BATTENS or 75mm POREN FIXINGS ON H3.1 TIMBER SPACERS

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NOTE: USE 120mm POREN FIXINGS FOR
40mm STO VH CAVITY BATTENS or 75mm
POREN FIXINGS ON H3.1 TIMBER SPACERS
NOTE: USE 120mm POREN FIXINGS FOR
40mm STO CAVITY BATTENS or 75mm
POREN FIXING ON CAVITY SPACERS

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NOTE:
ENSURE STOPOREN FACADE PANELS ARE SUPPORTED BY A MAX.OF 2/STUDS. VERTICAL CONTROL JOINTS ARE REQUIRED AT 8.0M MAX.CTRS. ADHERE STOPOREN CONTROL JOINT AND REMOVE TAB CAREFULLY AS SOON AS THE JOINT IS SET TO AVOID CRACKS.
USE 120mm POREN FIXINGS FOR 40mm H3.1 TIMBER CAVITY BATTENS or 75mm POREN FIXING FOR CAVITY SPACERS

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NO FIXINGS ALLOWED
IN (dry joist) FLOOR
JOIST

A: INTERSTOREY PANEL JOINT CENTRED
1/3 WAY DOWN FROM TOP OF THE JOIST.

NOTE:
INTER-STOREY CONTROL JOINT NOT REQUIRED ON SEASONED OR
proprietary joists. CAVITY CONSTRUCTION IS LIMITED TO TWO STORIES OR 7
METRES. A DRAINED CAVITY IS REQUIRED FOR THIRD STOREY

NOTE:
POREN PANEL 75mm FIXING
ON CAVITY SPACERS or
120mm FIXINGS ON 40mm
STO VH CAVITY BATTENS. A
STO PVC 12mm CONTROL
JOINT IS REQUIRED ON UNSEASONED JOISTS

NOTE: INTERSTOREY CONTROL JOINT NOT REQUIRED ON SEASONED OR
proprietary joists. CAVITY CONSTRUCTION IS LIMITED TO TWO STORIES OR 7
METRES. A DRAINED CAVITY IS REQUIRED FOR THIRD STOREY
NO FIXINGS ALLOWED IN (wet joist) FLOOR JOIST

A: INTERSTOREY PANEL JOINT CENTRED 1/3 WAY DOWN FROM TOP OF THE JOIST.

15mm GAP REQUIRED IN CAVITY SPACERS or BATTENS. USE LONGER SPACERS AS REQUIRED

NO FIXINGS ALLOWED IN (wet joist) FLOOR JOIST

WALL UNDERLAY - ENSURE UNDERLAY RUNS CONTINUOUS OVER JOINT
H3.1 TIMBER CAVITY SPACER or 40mm STO VH CAVITY BATTEN

POREN PANEL 75mm FIXING ON CAVITY SPACERS or 120mm FIXINGS ON 40mm CAVITY BATTENS

STOPOREN RENDER SYSTEM

INSTALL STO uPVC 12mm CONTROL JOINT WITH MS SEALANT or FORM NEGATIVE DETAIL

NOTE: INTER-STOREY CONTROL JOINT NOT REQUIRED ON SEASONED PROPRIETARY JOISTS. CAVITY CONSTRUCTION IS LIMITED TO TWO STORIES OR 7 METRES. A DRAINED CAVITY IS REQUIRED FOR THIRD STOREY.
1. IN EXTRA HIGH WIND ZONES INCREASE FLASHING COVER TO 60mm MIN. AND USE A RIGID UNDERLAY

WALL UNDERLAY - ENSURE UNDERLAY RUNS CONTINUOUS OVER JOINT

40X40 SLOPED BLOCK BETWEEN BATTENS. LEAVE GAP EACH END

STO POREN FACADE PANEL

STOPOREN RENDER SYSTEM

40mm H3.1 CAVITY SPACER or 40mm STO VH CAVITY BATTEN

FLASHING TAPE OVER

STO uPVC VENTED BASE CAP with EXTENSION INSERT

AS REQUIRED TO LIMIT CONTINUOUS CAVITY CONSTRUCTION TO TWO STOREYS

FLASHING BACK AND FRONT COVER TO BE A MINIMUM 35mm EXCLUDING DRIP EDGES

ALLOW TO RENDER BEHIND THEN SEAL WITH MS SEALANT OR STO SEAL TAPE

WALL UNDERLAY - ENSURE UNDERLAY RUNS CONTINUOUS OVER JOINT

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NOTE: USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS or 75mm POREN FIXINGS WITH CAVITY SPACERS
NOTE:
FLASHING TAPE SYSTEM TO BE INSTALLED AROUND JOINERY OPENINGS AS PER E2/AS1
USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS or 75mm POREN FIXINGS ON CAVITY SPACERS

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NOTE: OPENINGS OVER 600mm REQUIRE JOINERY SUPPORT BAR
USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS and 75mm FIXINGS FOR CAVITY SPACERS

JOINERY SUPPORT MUST BE CUT 15mm SHORT OF JOINERY JAMBS TO ALLOW FOR STO uPVC FLASHINGS
1. SEALANT IS APPLIED TO THE SILL AND JAMB FLASHINGS
2. WINDOW HEADS ARE LEFT OPEN
3. FLEXIBLE FLASHING TAPE SYSTEM TO BE INSTALLED AROUND JOINERY OPENINGS AS PER E2/AS1

WARNING: SOME BRANDS OF ALUMINIUM JOINERY HAVE DRAINAGE VENTS IN THE BOTTOM EDGE OF THE SILL FLANGE, ENSURE DRAINAGE VENTS REMAIN CLEAR.

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NOTE:
INSTALL STOPOREN JOINERY FLASHING DURING POREN PANEL CONSTRUCTION USE 120mm POREN FIXING FOR 40mm CAVITY BATTENS and 75mm FIXINGS FOR CAVITY SPACERS

WALL UNDERLAY RETURNED INTO RECESS WITH FLASHING TAPE SYSTEM. FLASHING TAPE RETURNED min 100mm UP JAMBS

STOPOREN FACADE PANEL

STOPOREN RENDER SYSTEM

H3.1 CAVITY SPACER or 40mm CAVITY BATTEN

10mm OVER WITH STOPEND

AIRSEAL ON PEF ROD GAP 7.5mm APPROX.
FLASHING TAPE (100mm UP JAMBS)
H1.2 PACKER TO SUPPORT JOINERY

LINE OF HEAD FLASHING

ALUMINIUM WINDOW JOINERY
MS SEALANT TO JAMBS
STO uPVC ADHESIVE SILL AND JAMB FLASHING
STO uPVC PRE-MESHED ADJUSTABLE CNR

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PROVIDE SEPARATION (ROOF UNDERLAY) UNDER METAL CAPPING AND 15mm H3 PLY - PACKED TO A FALL
PRE FINISHED METAL CAPPING TO PARAPET WITH 5° MIN.FALL

REFER TABLE 7 - E2/AS1
40mm DRAINED CAVITY
POREN FIXING
CARRY MESH/RENDER UP TO TOP EDGE
H3.1 CAVITY SPACER or 40mm CAVITY BATTEN
WALL UNDERLAY CONTINUOUS OVER TOP OF WALL FRAME
BALUSTRADE 1000M MIN.HEIGHT FROM DECK

NOTE:
H3.1 CAVITY SPACERS DETAILED ALTERNATIVELY - USE 120mm POREN FIXINGS or 40mm CAVITY BATTENS @ 300mm CTRS
MAINTAIN CLEARANCES FOR TILING

STOPOREN FACADE (40mm cavity) SYSTEM
PARAPET/BALUSTRADE DETAIL - METAL CAP

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POREN CAP AT 10° OVERSEATS WALLS, GLUE TO POREN WALL CLADDING

H3.1 PACKER CUT TO 10° SLOPE WITH 15mm PLYWOOD WITH FLASHING TAPE OR ROOFING UNDERLAY

NOTE:
H3.1 CAVITY SPACERS DETAILED ALTERNATIVELY - USE 120mm POREN FIXINGS or 40mm CAVITY BATTENS @ 300mm CTNS MAINTAIN CLEARANCES FOR TILING

STO PREMESHEO uPVC ADJUSTABLE CORNERS
OVERLAY OF STOFLEXYL MEMBRANE UNDER MESH COAT TO TOP & SIDES, 100mm MINDOWNTURN OVER BASE COAT
H3.1 CAVITY SPACER or 40mm CAVITY BATTEN

WALL UNDERLAY CONTINUOUS OVER TOP OF WALL FRAME POREN FIXING
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

40mm DRAINED CAVITY

BALUSTRADE 1000M MIN. HEIGHT FROM DECK

STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM
STO uPVC VENTED BASE CAP WITH EXTENSION INSERT

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STOPOREN FACADE
PP 1019
2018

STOPOREN FACADE (40mm cavity) SYSTEM
PARAPET/BALUSTRADE DETAIL - RENDERED FINISH
NOTE:
PARAPET/BALUSTRADE WALL MUST BE A MIN. 150mm FROM FACE OF THE WINDOW or DOOR JAMB AND IS REQUIRED TO BE OFFSET FROM IN PLANE WALL SURFACES. STOPOREN PANEL CAP EXTENDS BACK TO FRAMING LINE & IS TAPED TO UNDERLAY. USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS or 75mm FIXINGS FOR H3.1 CAVITY SPACERS
10° MIN.FALL TO TOP OF PARAPET
15mm H3 PLYWOOD OVER H3.1 TIMBER PACKER WITH FLASHING TAPE or ROOFING UNDERLAY OVER TOP

WALL UNDERLAY CONTINUOUS OVER TOP OF WALL FRAME
H3.1 CAVITY SPACERS or 40mm CAVITY BATTENS
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

NOTE:
HANDRAIL REQUIRED WHERE BALUSTRADE IS UNDER 1000M.
ADHERE PANEL JOINTS WITH STO POREN MINERAL PANEL
ADHESIVE or AAC 2hr CONSTRUCTION GLUE. HANDRAIL & FIXINGS TO HAVE 50x3mm EPDM WASHERS AROUND FIXINGS.
USE 120mm STO POREN FIXINGS FOR 40mm CAVITY BATTENS or 75mm FIXINGS FOR H3.1 CAVITY SPACERS

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STOFLEXYL MESHED SADDLE MEMBRANE
STO PREMESHED uPVC ADJUSTABLE CORNERS
OVERLAY OF STO FLEXYL MEMBRANE UNDER MESH COAT TO TOP & SIDES, 75mm MIN. DOWNTURN OVER BASE COAT

WALL UNDERLAY CONTINUOUS OVER TOP OF WALL FRAME

POREN FIXING
H3.1 CAVITY SPACER or 40mm CAVITY BATTEN
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

NOTE:
STOPOREN PANEL CAP BUTTS INTO FRAMING AND IS SEALED & TAPED TO UNDERLAY WITH 50x50mm FLASHING TAPE. FLASHING TAPE ONTO THE SEALED STOPOREN PANEL MUST BE 50mm MIN.

STOFLEXYL MESHED SADDLE MEMBRANE
STO PREMESHED uPVC ADJUSTABLE CORNERS
OVERLAY OF STO FLEXYL MEMBRANE UNDER MESH COAT TO TOP & SIDES, 75mm MIN. DOWNTURN OVER BASE COAT

WALL UNDERLAY CONTINUOUS OVER TOP OF WALL FRAME

POREN FIXING
H3.1 CAVITY SPACER or 40mm CAVITY BATTEN
STOPOREN FACADE PANEL
STOPOREN RENDER SYSTEM

NOTE:
STOPOREN PANEL CAP BUTTS INTO FRAMING AND IS SEALED & TAPED TO UNDERLAY WITH 50x50mm FLASHING TAPE. FLASHING TAPE ONTO THE SEALED STOPOREN PANEL MUST BE 50mm MIN.

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NOTE: SADDLE FLASHING INSTALLED OVER CLADDING.
WITH BACK FLASHINGS REQUIRED ON TOP OF CAVITY BATTENS TO INTERNAL CORNERS UNDER CLADDING.
CAP FLASHING JOINS INSTALLED OVER SOAKER FLASHINGS WITH MINIMUM 50mm OVER LAP BOTH SIDES WITH 5mm GAP AND 6mm SEALANT BEADS UNDER FLASHING OR 100mm OVERLAPPED JOINTS RIVETED THROUGH SEALANT. REFER FIG. 9 E2/AS1

2 LINES OF SEALANT

A. SADDLE FLASHING

8mm EXPANSION GAP BETWEEN PARAPET CAP AND SADDLE FLASHING - USE MS SEALANT

B. PARAPET CAP

PARAPETS TO FALL TO INTERIOR SIDE. COVER TO CLADDING AS PER E2/AS1 TABLE 7

METAL PARAPET CAP FLASHING FIXED THROUGH THE SIDES.

PARAPETS MUST BE OFFSET FROM WALLS RUNNING PARALLEL TO PARAPET WALL TO ALLOW FOR INTERNAL CORNER BACKFLASHINGS

STOPOREN FACADE SYSTEM

WALL UNDERLAY

STO 40mm CAVITY SPACERS

PLACE CAP FLASHING OVER SADDLE FLASHING - REFER TO E2/AS1 FIGURE 12 FOR CAP FIXING DETAILS.

H3.1 CAPPING PLATE CUT TO A FALL WITH FLASHING TAPE OR ROOFING UNDERLAY

INTERNAL CLADDING BACK FLASHING UNDER CLADDING

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NOTE: APPLY STOFLEXYL MESHED WATERPROOFING OVER STOPOREN MESHED BASECOAT RENDER.

STOFLEXYL MESHED WATERPROOFING HAS BEEN TESTED BY BRANZ TO MEET AS/NZS4858 FOR A WATERPROOFING MEMBRANE AS REQUIRED BY E2/AS1

A. NZBC - E2/AS1 REQUIRES BALCONY & PARAPET WALLS TO BE OFFSET FROM THE MAIN WALL PLANE TO ALLOW FOR SADDLE FLASHINGS
NOTE:
REFER TO E2/AS1 TABLE 1 FOR DEFINITIONS of RISK LEVELS.
EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm or
LESS FROM EXTERIOR WALL CLADDING & ROOF SLOPES ARE
10° or LESS & VERY HIGH/EXTRA HIGH WIND ZONES.
USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS and
75mm FIXINGS FOR H3.1 CAVITY SPACERS

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NOTE:
REFER TO E2/AS1 TABLE 1 FOR DEFINITIONS of RISK LEVELS.
EAVE FLASHINGS ARE REQUIRED WHEN FASCIA IS 100mm or
LESS FROM EXTERIOR WALL CLADDING & ROOF SLOPES ARE
10° or LESS & VERY HIGH/EXTRA HIGH WIND ZONES.
USE 120mm POREN FIXINGS FOR 40mm CAVITY BATTENS and
75mm FIXINGS FOR H3.1 CAVITY SPACERS

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